

Philippine Men of Science

**A compilation of bio-bibliographical information of
men and women in the field of science and
technology**

**Volume 24
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**Information Resources and Analysis Division
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Preface

The Philippine Men of Science is one of the in-house publications generated from the Scientists Database, being maintained by the Science and Technology Institute (STII), the information arm of the Department of Science and Technology (DOST). It contains bio-bibliographical information of the living scientists who have excelled in their careers with their scientific and technical contributions published in various scientific and technical journals here and abroad.

This compilation aims to provide a useful and effective baseline information needed by researchers, planners, policy makers and the general public who may need the expertise of these scientists.

The publisher is very grateful to all the scientists who have extended their wholehearted and invaluable cooperation in this undertaking as it is hoped that this information will be of help in our national development effort.

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Name **Tereso A. Abella**

Organizational Affiliations

Director/ Professor VI, Freshwater Aquaculture Center, Central Luzon State University, Science City of Muñoz, Nueva Ecija

Education

Doctor of Philosophy (Fish Genetics), University of Wales Swansea, Swansea, Wales, United Kingdom 1994

Master of Science in Biology (Fisheries Biology), Kansas State University, Manhattan, Kansas, United States of America 1980

Bachelor of Science in Agriculture (Inland Fisheries), Central Luzon State University, Munoz, Nueva Ecija, Philippines 1976

Fields of Specialization

Fish Genetics and Breeding

Aquaculture

Employment

Instructor I, Central Luzon State University, 1976 Ap19-1984 Je 30

Asst. Prof. II, Central Luzon State University, 1984 Jl 1-1986 Je 30

Assoc. Prof. II, Central Luzon State University, 1986 Jl 1-1990 D 30

Assoc. Prof. III, Central Luzon State University , 1991 Ja 1-1993 Je 17

Professor II, Central Luzon State University, 1993 Je 18-1994 O 27

Professor V, Central Luzon State University, 1994 O 28-1997 N 30

Professor VI, Central Luzon State University, 1997 D 1-present-

Association Membership

Member, Wag -Wag Club, Science City of Munoz, Nueva Ecija

Member, Shalom Club Philippines, Inc.

Member, American Fisheries Society

Member, International Association of Geneticists in Aquaculture

Member, Philippine Aquaculture Society

Member, Philippine Fisheries Association

Executive Vice President, Society of Aquaculture Engineers in the Philippines

Member, National Research Council of the Philippines

Member, Free and Accepted Masons of the Philippines, Inc.

Honors / Awards

Recipient, Efficiency Medal, ROTC 1973

Recipient, Leadership Award, CLSU Alumni Association, Inc 1976

IAPMP-USAID Scholarship Grant, IAPMP-USAID 1978-80

Achievement Award, CLSU Alumni Association, Inc 1994

Best Paper Award (Within family selection of *Oreochromis niloticus*), CLARRDEC 1988 My

Best Paper Award (o Salinity Tolerance of Progenies of Different Crosses of Tilapia), RET-CLSU 2000 My 19

Best Paper Award (Bio-Pesticide from Physic Nut), RET-CLSU 2006 Je 8

Natatanging Anak ng Nueva Ecija Awardee for Science and Technology, 108th Anniversary of the "Unang Sigaw ng Nueva Ecija" 2004 S 2

Distinguished Service Award, Centennial Day Celebration of the Central Luzon State University 2007 Ap 10

CLSU Centennial Most Distinguished Alumnus Award in the field of Science and Technology, Central Luzon State University, Science City of Munoz, Nueva Ecija 2007 Ap 12

Most Outstanding Professional Award in the field of Fishery, Professional Regulation Commission 2007 Je 22

2nd place AFMA Research Paper Award, 19th DA-BAR National Research Symposium 2007 O 6

Trainings

Workshop on Identification of Competency Standards for MS in Fisheries Program, Metro Manila 2006 S 14-15

Tilapia Genetic Traceability Workshop, Singapore 2006 Ja 15-20

Inception Workshop for the ADB Project TA No.: 4708-PHI, Metro Manila 2006 Ag 10

Asia-Europe Meeting (ASEM) Aquaculture Platform Conference, Southeast Asian Fisheries Development Center (SEAFDEC), Tigbauan, Iloilo, Philippines 2005 S 24-27

International Training on Information Exchange on Cichlids Among Aquaculture CRSP Host Countries, FAC-CLSU, Science City of Munoz, NE 2005 Jl 25

6th International Symposium on Tilapia in Aquaculture (ISTA 6), PICC, Metro Manila 2004 S 13-16

Asian Fisheries Forum, Penang, Malaysia 2004 N 29-D 3

Final Workshop on PPP in Tilapia Genetics and Dissemination of Research Outputs to End-Users, Tagaytay City 2004 Ja 20-23

National Consultative-Workshop on the Establishment of Agri-Fishery Industry Working Group (IWG), Metro Manila 2004 Ap 21

(DOST-JSPS) University Program in Fisheries Science, Japan 2002 O 1-14

International Forum on Tilapia Farming in the 21st Century, Los Baños, Laguna 2002 F 25-27

Seminar-Workshop of Aquaculture RDE Network, Metro Manila 2001N 22-23

CIRAD-PCAMRD Project Presentation and Seminar-Consultation on Aquaculture Practices, San Fernando, Pampanga 2001 S 25

Training of Accreditors, Metro Manila 2001 S 20-22

Zonal Center for Northern Annual Commodity R&D Review for Fisheries, Pampanga 2001 N 14

Policy Forum on Genetically Modified Organisms (GMOs), Metro Manila 2001 JI 16

Prioritization Workshop of DA-BAR., Iloilo City 2000 My 22-24

National-Regional Interphase Workshop, Batac, Ilocos Norte 2000 Mr 6-7

National-Regional RDE Interfacing Workshop, Zamboanga City 2000 Mr 21-23

Regional Symposium on R&D Highlights, Pampanga 2000 JI 20

Aquaculture Forum, Metro Manila 2000 Ag 8

3rd International Postgraduate Course on Aquaculture Production and Management, Israel 1999 O 17-N 12

Seminar-Workshop on Responsible Aquaculture Development in Southeast Asia - ADSEA '99, SEAFDEC, Tigbauan, Iloilo 1999 O 12-14

Consultation Workshop of the Core Planning Team (CPT) for Aquaculture, Los Baños, Laguna 1999 My 31-Je 1

Asian Fisheries Forum, Chiang Mai, Thailand 1998 N 9-12

Field Training in Fisheries Resource Management, Phuket, Thailand 1998 N 19-27

First General Assembly for Mindanao Advanced Education Program (MAEP), Mindanao Polytechnic State College, Cagayan de Oro City 1998 F 27-28

National Consultation Workshop, DA-BAR. Bicutan, Taguig, Metro Manila 1998 Ag 24

ODA Fish Genetics Research Programme Workshop, Swansea, UK 1996 My 2-5

Assessing the Effectiveness of Environmental Policies, Bali, Indonesia 1996 Mr 25-29

Third Steering Committee Meeting of International Network for Genetics in Aquaculture (INGA), Cairo, Egypt 1996 JI 6-12

The National Training-Workshop on the YY-Male Technology in Tilapia, FAC, Central Luzon State University, Muñoz, Nueva Ecija 1995 O 5-7

Second International Workshop on Genetics in Aquaculture and Fisheries Management, Phuket, Thailand 1994 N 7-11

National Workshop on Aquatic Resources Socio-Economics and Policy Research and Development, Los Baños, Laguna 1994 Je 30

Third Asian Fisheries Forum, Singapore, Republic of Singapore 1992 O 26-30

Symposium on Fish Genetics and Its Application to Aquaculture and Fishery Management. BIOTROP, Bogor, Indonesia 1992 D 8-10

Second Asian Fisheries Forum, Tokyo, Japan 1989 Ap 17-22

Regional Workshop on the NARRDS Five-Year R & D Plan. PCAMRD/CLSU, CLSU, Muñoz, Nueva Ecija 1989 Ag 16-17

Asian Seminar on Aquaculture Research in Asia: Management Techniques and Nutrition, Malang, Indonesia 1988 N 14-18

Training on Quantitative Genetics. United Nations Development Programme (UNDP), Institute of Aquaculture Research, As, Norway 1988 My 29-Je 30

Third International Symposium on Genetics in Aquaculture, Trondheim, Norway 1988 Je 20-24

First National Symposium and Workshop on Tilapia Farming, PCARRD, Los Baños, Laguna 1986 N 24-26

Second Aquaculture Genetics Network in Asia Workshop, Bangkok, Thailand 1986

International Development Research Centre (IDRC) Training and Workshop in Aquaculture Genetics, National University of Singapore 1985 Ap 14-27

The Second International Symposium on Tilapia in Aquaculture, Manila, Philippines

Researches

Completed

Tilapia Breeding and production in the Philippines

Commercialization of Freshwater Aquaculture Center selected tilapia (FaST)

UNLAD and Technology Commercialization Project

Commercialization of FAC Selected Tilapia (FaST)

Mobilizing the Agricultural Colleges and Universities in accelerating Agriculture and Fisheries Productivity, job generation and income: Commercial Production of FAC Selected Tilapia (FaST)

Conservation of freshwater fishes biodiversity in the Philippines

Development of tilapia for saline waters

Genetic improvement of tilapia

Living fish museum

Culture of snakeskinned gourami (*Trichogaster pectoralis*) in ponds and rice paddies

Genetic improvement for high quality tilapia breeders

Papers Presented

Abella, T.A. (2008 O 2-3). Broodstock Development for Saline Tolerant Tilapia in the Philippines, National Summit/Congress on the Culture of Saline Tolerant Tilapia. Asian Fisheries Academy, NIFTDC-BFAR.

Abella, T. A. (2007 My 24). Status of YY male Technology and Fast, 1st Regional Tilapia Congress, Philippine Carabao Center, Central Luzon State University, Muñoz, Nueva Ecija.

Acosta, B.O., Sevilleja, R.C., Gupta, M.V., Rodriguez, Jr., B.M., Abella, T.A., Tayamen, M.M. (2006). Public and Private Partnerships in Tilapia Research and Development: An Overview of Philippine Experience, World Fish Center Conference, Public and Private Partnerships in Aquaculture: A Case Study on Tilapia Research and Development.

Tayamen, M.M., Abella, T.A., Sevilleja, R.C. (2006). Role of Public Sector in Dissemination of Tilapia Genetics Research Outputs and Links with Private Sector, Public and private partnerships in aquaculture: a case study on tilapia research and development.

Abella, T.A. (2006). Role of Public Sector in Genetics and Its Partnership with Private Sector in Philippines, Public and Private Partnerships in Aquaculture: A Case Study on Tilapia Research and Development. WorldFish Center Conference Proceedings.

Abella, J.P., Holasca, J.D., Reyes, R.B., Tadeo, A.A., Abella, T.A. (2006). Bio-Piscicides

from Physic Nut (*Jatropha curcas* L.) for Aquaculture, Research Digest.

Tayamen, M.M., Abella, T.A., Reyes, R.A., Danting, Ma. J.C., Mendoza, A.M., Marquez, E.B., Salguet, A.C., Apaga, M.M., and Gonzales, R.C. (2004). Development of Tilapia for Saline Waters in the Philippines, ISTA 6 Conference Proceedings, Metro Manila, Philippines.

Abella, T.A., Vera Cruz, E.M., Sugue, J.R., Baroman O.N., Estanislao, F.C. (2000). Salinity tolerance of progenies of different crosses of tilapia. In: Compilation of Abstracts of Completed and On-going R&D Projects, Research, Extension and Training (RET), Central Luzon State University, Muñoz, Nueva Ecija, Philippines.

Abella, T.A., Abucay, J.S., Capili, J.B., Mair, G.C., Pascual, L.P., Vera Cruz, E.M. (1999). Recent Advances in the Research on the YY Male Technology, PCAMRD, R&D Highlights of the NAARDS.

Abella, T.A. (1989). Evaluation of Tilapia Strains and Hybrids for Land-Based Systems, PCAMRD; ICLARM Tilapia Genetics and Culture Proceedings of the Seminar-Workshop on Tilapia Genetics and Culture, Freshwater Aquaculture Center, Central Luzon State University, Munoz, Nueva Ecija.

Abella, T.A., Batao, M.N. (1989). Broodstock Exchange Technique for Maximum Production of *Oreochromis niloticus* Egg and Fry in Hapas, Aquaculture Research in Asia: Management Techniques and Nutrition/Proceedings of Asian Seminar on Aquaculture/Organized by the International Foundation for Science.

Abella, T.A. (1987). Improved Tilapia Strains Through Broodstock Development, PCARRD, BFAR, and SEAFDEC Aquaculture Department. Los Baños, Laguna.

Abella, T.A., Palada, M.S., Bolivar, R.B., Lester, J.L. (1986). Evaluation of the Growth Performance of *Oreochromis niloticus* Progenies in Freshwater Ponds, The Asian Fisheries Society, Manila, Philippines.

Abella, T.A., Darwin, L.C., De Guzman, D.L., Baguilat, R.B. (1985 Je 20-22). Evaluation of Tilapia Strains and Hybrids for Land-Based Systems, PCAMRD; ICLARM Tilapia Genetics and Culture Proceedings of the Seminar-Workshop on Tilapia Genetics and Culture, Freshwater Aquaculture Center, Central Luzon State University, Munoz, Nueva Ecija.

Publications

- 2008 Vera Cruz, E.M., Abella, T.A., Bartolome, Z.P. Tilapia Breeding and Production in the Philippines. RET Amphitheater, CLSU, 2008 My 30.
- 2006 Acosta, B.O., Sevilleja, R.C., Gupta, M.V., Rodriguez, Jr., B.M., Abella, T.A., Tayamen, M.M. Public and Private Partnerships in Tilapia Research and Development: An Overview of Philippine Experience. World Fish Center Conference Proceedings, 2006.
- Tayamen, M.M., Abella, T.A., Sevilleja, R.C. Role of Public Sector in Dissemination of Tilapia Genetics Research Outputs and Links with Private Sector. World Fish Center Conference Proceedings, 2006:16-20.
- 2004 Tayamen, M.M., Abella, T.A., Reyes, R.A., Danting, Ma. J.C., Mendoza, A.M., Marquez, E.B., Salguet, A.C., Apaga, M.M., Gonzales, R.C. Development of Tilapia for Saline Waters in the Philippines. ISTA 6 Conference Proceedings, 2004:463-478.
- 2001 Pol, M.R., Abella, T.A. Grow-out Culture of River Catfish (*Pangasius sutchi*, Fowler 1937) at Different Stocking Densities. The Journal of Graduate Studies, Institute of Graduate Studies, 2001.

- 2000 Abella, T.A., Vera Cruz, E.M., Sague, J.R., Baroman, O.N., Estanislao, F.C. Salinity tolerance of progenies of different crosses of tilapia. Compilation of Abstracts of Completed and On-going R&D Projects, 2000.
- 1999 Bolivar, R.B., Abella, T.A., Circa, A.V. Effects of Culture Environments, Sex and Initial Size on Relative Growth and Survival of Different Strains of Nile Tilapia (*Oreochromis niloticus*). R&D Highlights of the NAARDS, 1999.
- Bolivar, R.B., Abella, T.A., Bartolome, R.M., Bartolome, Z.P. Response to Selection in the 8th Generation. (PCAMRD Book Series No. 24/1999), 1999:p. 103.
- Bolivar, R.B., Abella, T.A., Bartolome, R.M., Bartolome, Z.P. Testis Relationship to Body Morphometric Measurements and Gonadosomatic Index (GSI) in *Oreochromis niloticus*. (PCAMRD Book Series No. 24/1999), 1999:105.
- Bolivar, R.B., Abella, T.A., Bartolome, R.M., Bartolome, Z.P. Effect of High and Low Protein Feeds on Growth, Feed Conversion Efficiency, and Survival of Selected *O. niloticus*. (PCAMRD Book Series No. 24/1999), 1999:p. 104.
- Marzan, E.G. Jr. Bartolome, R.M., Abella, T.A. Socioeconomic Status of Freshwater Aquaculture Industry in Central Luzon. (PCAMRD Book Series No. 24/1999), 1999:p. 286.
- Bolivar, R.B., Abella, T.A., Bartolome, R.M., Bartolome, Z.P. Genotype x Environment Interaction in the Genus *Oreochromis*: Growth of Sex-Reversed Male and Mixed-Sex Culture in Ponds and Tanks. R&D Highlights of the NAARDS, 1999.
- Misra, H.S., Abella, T.A. Performance and Sex-ratio of Interspecific Hybrids Using *O. niloticus* YY Males Crossed with *O. aureus* and *O. mossambicus*. R&D Highlights of the NAARDS, 1999:p. 85.
- Sawangtong, M., Abella, T. A. Artificial Propagation of Giant Gourami (*Osphronemus goramy*, Lacepede) Using Suprefact with Domperidone. The Journal of Graduate Studies. Institute of Graduate Studies, 1999.
- 1997 Mair, G.C., Abella, T.A. Technoguide on the Production of Genetically Male Tilapia (GMT). Freshwater Aquaculture Center, 1997.
- 1996 Mair, G., Abucay, J.S., Skibinski, D.O.F., Abella, T.A., Beardmore, J.A. Genetic manipulation of sex ratio for the large-scale production of all-male tilapia, *Oreochromis niloticus*. *Canad. J. of Fish. Aquat. Sciences*, 1996.
- 1993 Mair, G.C., Vera Cruz, E.M., Garcia, M.A.R., Capili, J.B., Abucay, J.S., Abella, T.A., Beardmore, J.A., Skibinski, D.O.F. Genetic Manipulations - Prospects for Improvement of Tilapia for Culture in the Philippines. BIOTROP Special Publication, 1993:150 pp..
- 1992 Abella, T.A., Bolivar, R.B., Mair, G.C., Skibinski, D.O.F. Fluctuating asymmetry in *Oreochromis niloticus* (L.) selected for growth rate. BIOTROP, 1992 D 8-10.
- 1992 Bolivar, R.B., Eknath, A.E., Bolivar, H.L., Abella, T.A. Growth and reproduction of individually tagged Nile tilapia (*Oreochromis niloticus*) of different strains. ICLARM Contribution, 1992(No. 712).
- Mair, G.C., Garcia, M.A.R., Capili, J.B., Abella, T.A., Vera Cruz, E.M. Application of Genetic Manipulations for Improvement of Tilapia for Culture in the Philippines. The GMT Project. Ripples, Newsletter of the Freshwater Aquaculture Center, 1992.
- 1991 Eknath, A., Bentsen, H. Gjedre, B., Tayamen, M., Abella, T.A., Gjedrem, Pullin, R.S.V Approaches to National Fish Breeding Programs. Pointers from a Tilapia Pilot Study, 1991, 14(2):p. 10-12.

- 1989 Lester, L.J., Lawson, K.S., Abella, T.A., Palada, M.S. Estimated Heritability of Sex Ratio and Sexual Dimorphisms in Tilapia. *Aquaculture Fisheries Management*, 1989(20):369-380.
- Abella, T.A., Batao, M.N. Broodstock Exchange Technique for Maximum Production of *Oreochromis niloticus* Egg and Fry in Hapas-. *Aquaculture Research in Asia: Management Techniques and Nutrition. Proceedings of Asian Seminar on Aquaculture/ Organized by the International Foundation for Science*, 1989:9-18.
- 1988 Abella, T.A., Batao, M.N. Broodstock Exchange Technique for Maximum Production of *Oreochromis niloticus* Egg and Fry in Hapas. *Aquaculture Research in Asia*, 1988 N 14-18:p 9-18.
- 1988 Lester, L.J, Abella, T.A., Palada, M.S., Keus, H.J. Genetic Effects on Size and Sexual Maturation of *Oreochromis niloticus* Under Hapa and Cage Culture Conditions. 2nd International Symposium on Tilapia in Aquaculture, 1988.
- 1987 Abella, T.A. Improved Tilapia Strains Through Broodstock Development. PCARRD Book Series, 1987(No. 48):68 p.
- 1986 Abella, T.A. Evaluation of Tilapia Strains and Hybrids for Land-based systems. CLSU Sci, 1986.
- Abella, T.A., Palada, M.S., Bolivar, R.B., Lester, J.L. Evaluation of the Growth Performance of *Oreochromis niloticus* Progenies in Freshwater Ponds. *The Asian Fisheries Society*, 1986:p. 19-20.
- 1985 Abella, T.A., Darwin, L.C., De Guzman, D.L., Baguilat, R.B. Evaluation of Tilapia Strains and Hybrids for Land-Based Systems. *Philippine Council for Aquatic and Marine Research and Development*, 1985 Je 20-22:38-41.
- 1982 Abella, T.A., Bulacso, R.P. Pond Evaluation of Red Tilapia Progenies. Technical Report, 1982(No. 22).
- Abella, T.A., Bulacso, R.P., San Andres, E.D. Growth of Israel Tilapia *nilotica* in Cages. Technical Report, FAC Progress Report, Freshwater Aquaculture Center, 1982(No. 22).
- 1980 Guerrero, R.D., Cagauan, A.G., Abella, T.A. Pond Evaluation of Three Tilapia Hybrids. *CLSU Science Journal*, 1980.
- 1976 Guerrero, R.D., Abella, T.A. Induced Sex Reversal of *Tilapia nilotica* with methyltestosterone. *Fisheries Research Journal of the Philippines*, 1976.
- Pullin, R.S.V., Eknath, A., Gjedrem, T., Tayamen, M., Macaranas, J., Abella, T.A The Genetic Improvement of Farmed Tilapias (GIFT) Project. *The Story So Far/ NAGA*, , 14(2):p. 3-6.

Name **James Patrick P. Abulencia**

Organizational Affiliations

Assistant Professor, Department of Chemical Engineering Manhattan College, 3825
Corlear Ave. Riverdale. NY10463

Education

Ph.D. Chemical and Biomolecular Engineering, Johns Hopkins University Maryland, 2003
BS Chemical Engineering, Manhattan College New York, New York 1997

Fields of Specialization

Chemical and Biomolecular Engineering

Employment

Teacher and Developer, The Princeton Review, New York, NY, 2003 Ja - present
Chemistry Learning Center Specialist, University of Illinois Urbana Champaign
Department of Chemistry Urbana, IL, 2005 Ag- 2007 Ja
Visiting Professor, De La Salle University Department of Chemical Engineering Manila,
Philippines, 2008 JI- Ag 2009
Assistant Professor, Manhattan College, 2007 Ja - present

Association Membership

Member, American Society for Engineering Education (ASEE)
Member, American Institute of Chemical Engineers (AIChE)
Member, Tau Beta Pi
Member, Philippine-American Academy of Science and Engineering
Member, Society of Hispanic Professional Engineers (SHPE)
Member, Sigma Xi
Member, New York Academy of Science

Honors / Awards

Tau Beta Pi, National Engineering Honor Society 1997
Epsilon Sigma Pi, Highest Academic Honor in Manhattan College 1997
Theta Alpha Kappa, National Religion Honor Society 1997
Pi Mu Epsilon, National Mathematics Honor Society 1997
Summer Scholar in Residence, New York University 2010
Deans List, Manhattan College (1993-1997)
Eagle Scout, Boy Scouts of America 1993
Presidential Scholarship, Manhattan College 1993-1997
Honorable Mention, National Science Foundation 1997

Omega Chi Epsilon, National Chemical Engineering Honor Society 1996

MARC Travel Award, FASEB 2002

Travel Award, Biomedical Engineering Society 2002

Balik Scientist Awardee, DOST 2008

Trainings

ASEE Annual Conference, Louisville, KY (Presenter, Session June 2010

ASEE North East Regional Conference (Presenter), Boston, MA 2010 My

Annual PAASE Meeting and Symposium, Madison, WI 2010 My

NYU Faculty Resource Network "Energy and the Environment", San Juan, PR 2010 Ja

AIChE Annual Meeting (Presenter), Nashville, TN 2009 N

ASEE Annual Conference (Presenter, Session Moderator), Austin, TX 2009 Je

NYU Faculty Resource Network "Ethics in Practice"□, New York, NY 2009 Je

Regional Symposium in Chemical Engineering (Session Moderator and Technical Keynote), Manila, Philippines 2009 D

ASEE North East Regional Conference (Presenter), Bridgeport, CT 2009 Ap

Tau Beta Pi National Conference, East Brunswick, NJ 2009 O

ASEE Mid Atlantic Regional Conference (Presenter), Hoboken, NJ 2008 O

AIChE Annual Meeting (Presenter, Session Moderator), Philadelphia, PA 2008 N

ASEE Zone I Conference (Session Moderator), West Point, NY 2008 Mr

Outstanding Young Scientists Meeting and Convention, Manila, Philippines 2008 JI

DLSU Science and Technology Congress, Manila, Philippines 2008 JI

ASEE Annual Conference(Presenter, Session Moderator), Pittsburgh, PA 2008 Je

Energy and Resources Conference "Water: The Next 'Oil'"□, New York, NY 2008 D

US EPA Region 2 Meeting "Seize the Moment: Opportunities for Green Chemistry and Green Enginee, New York, NY 2007 S

AIChE Annual Conference, Salt Lake City, UT 2007 N

ASEE Annual Conference, Honolulu, HI 2007 JI

ASEE Summer School (Presenter), Washington State University â€ Pullman, WA 2007 Ag

Biology in a Dynamic World "How Engineers Do It", Seminar at De La Salle University, Manila, Philippines, July 200 2000 JI

Researches

Completed

Beginning Research Innovation Development and Growth to Engineers: The BRIDGE Program

Ongoing

Incorporation of Engineering Ethics in a Senior Unit Operations Laboratory

Novel Natural Water Filters for Nagcarlan, Philippines

Development of a Personal Water Purification Solution in the Philippines

Designing Personal Biodegradable Filters using Indigenous Materials for Nagcarlan, Philippines

Using Video Media to Enhance Conceptual Learning in an Undergraduate Thermodynamics Course

Papers Presented

Gallardo, S.M., Abulencia, J.P., Tanala, F.A. (2010 S). Characterization of ITDI Prepared Activated Carbon From Coconut Shells for Drinking Water Treatments, 5th Engineering Research and Development for Technology Conference, Manila.

Mohan, A.E., Sola, E., Abulencia, J.P. (2010 My). The Link Between Industrial and Academic Engineering, ASEE North East Regional Conference, Boston, MA,.

McDonnell, K.J., Caraccio, A., Abraham, N.S., Ruffini, N., Gallardo, S., Abulencia, J.P. (2010 My). Development of a Personal Water Purification Solution in Nagcarlan, Philippines, ASEE North East Regional Conference, Boston, MA,.

E. Sola, A.E. Mohan, J.P. Abulencia, (2010 My). The Modern Evolution of a Chemical Engineering Education, ASEE North East Regional Conference, Boston, MA, May 2010.

Domato, D., Castaldi, M., Abulencia, J.P. (2010 My). A Senior Level Experiment on Developing an Energy Efficient Biomass Gasification Process, ASEE North East Regional Conference, Boston, MA.

Abulencia, J.P., Gallardo, S. (2010 My). Point of Use Water Filtration Using Coconut Derived Activated Carbon in Nagcarlan, Philippines, Annual PAASE Meeting and Symposium, Madison, WI.

OBrien, S., Abulencia, J.P. (2010 Je). Learning Through Reverse Engineering, ASEE National Conference, Louisville, KY.

Freyne, S., Abulencia, J.P., Draper, P. (2010 Je). First Year Engineering Students, Perceptions of Contemporary Ethical Issues, ASEE National Conference, Louisville, KY.

Abulencia, J.P. (2010 D). Engineering Approaches to Joint Biology, Seminar at SUNY Rockland, Suffern, NY.

E. Sola, A.E. Mohan, J.P. Abulencia, J.P. (2010 My). The Modern Evolution of a Chemical Engineering Education, ASEE North East Regional Conference, Boston, MA, May 2010.

Cokeley, K., Mockler, C., Zheng, M.F., Abulencia J.P. (2010). Teaching Alternative Energy through Biodiesel from Algae, ASEE North East Regional Conference, Boston, MA, May 2010.

Abulencia, J.P (2009 N). Incorporation of Engineering Ethics in a Senior Unit Operations Laboratory, AIChE Annual Meeting, Nashville, TN.

Abulencia J.P (2009 Je). Online Social Networking: A Mechanism to Acclimatize Incoming Freshmen and Facilitate Department Communication, ASEE National Conference, Austin, TX.

Abulencia J.P., Griffon D.J., Ragetly G.R., Fredericks L.P., Chaieb, S (2009 D). Mesenchymal Cell Seeding on Three-Dimensional Matrices, Regional Symposium in Chemical Engineering, Manila, Philippines.

Carracio, A., Abraham N.S., McDonnell K., Gallardo S., Abulencia J.P (2009 D).

Development of a Personal Water Purification Solution in Nagcarlan for Rural Communities in the Philippines, Regional Symposium in Chemical Engineering, Manila Philippines.

Abulencia, J.P (2009 Ap). Re-tooling Engineering Students for a Global Economy, ASEE Nort East Regional Conference, Bridgesport,CT.

Singer, K., Abulencia J.P., Theodore, L (2009 Ap). Senior Lab Makeover - Creating A Better Prepared Engineer, ASEE North East Regional Conference,Bridgesport,CT.

Hoolan, C., Abulencia, J.P., Machingo, Q (2009 Ap). Implementing a Biology-Based Experiment Into a Senior-Level Unit Operation Course, ASEE North East Regional Conference, Bridgesport, CT.

Abulencia, J.P (2009 Ap). Re-tooling Engineering Students for a Global Economy, ASEE Nort East Regional Conference, Bridgesport,CT.

Abulencia, J.P (2009 Ap). Re-tooling Engineering Students for a Global Economy, ASEE Nort East Regional Conference, Bridgesport,CT.

Abulencia, J.P (2009 Ap). Re-tooling Engineering Students for a Global Economy, ASEE Nort East Regional Conference, Bridgesport,CT.

Abulencia, J.P (2008 O). Beginning Research Innovation Development and Growth to Engineers: THE BRIDGE Program, ASEE Mid Atlantic Regional Conference, Hoboken, NJ.

Abulencia, J.P. (2008 N). 1 New Notification: Using Facebook to Ease the College Transition and Facilitate Department Communication, AIChE Annual Meeting, Philadelphia, PA.

Abulencia, J.P (2008 N). Reflections on the CHED Summer School, AIChE Annual Meeting, Philadelphia, PA.

Abulencia, J.P. (2008 JI). Biology in a Dynamic World , How Engineers Do It, DLSU Science and Technology Congress, Manila, Philippines.

Abulencia, J.P (2008 JI). Biology in Dynamic World - How Engineers Do It, DLSU Science and Technology Congress, Manila, Philippines.

Anid, N.A., Abulencia, J.P. (2008 Je). Teaching and Evaluating Student Oral Presentations, ASEE National Conference, Pittsburgh, PA.

Abulencia, J.P (2008 Je). Inserting Biology into the Chemical Engineering Curriculum, ASEE National Conference,Pittsburgh, PA.

Abulencia, J.P (2008 Je). Teaching and Evaluating Student Oral Presentations, ASEE National Conference, Pittsburgh, PA.

Abulencia, J.P (2007 Ag). Beginning Research Innovation Development and Growth to Engineers: The BRIDGE Program, ASEE Summer School, Pullman , WA.

Abulencia, J.P., Gaspard, R., Quackenbush, J., Konstantopoulos, K. (2002 O). Microarray Analysis of the Chondrocytic Cell Line T/C-28a2 under Dynamic Fluid Shear, Annual Meeting of the Biomedical Engineering Society, Houston, TX.

Abulencia, J.P., Gaspard, R., Quackenbush, J., Konstantopoulos, K. (2002 Ap). Discovery and Characterization of Differentially-Regulated Genes in the Chondrocytic Cell Line T/C-28a2 Under Dynamic Fluid Shear, Symposium: "Genomics: A Unified Approach to Solving Disease Problems in Health and Disease", New Orleans, LA.

J.P.Abulencia, O.J.T. McCarty, S.A. Mousa, K.Konstantopoulos, (1999 D). Modulation of Platelet Function by a GPIIb-IIIa Antagonist XV-454, in Flow Models of Arterial Thrombosis, Johns Hopkins Chemical Engineering Graduate Student Research Symposium, Baltimore,MD..

Abulencia, J.P., McCarty, O.J.T., Mousa, S.A., Konstantopoulos, K. (1999 Ag). Modulation of Platelet Function by a GPIIb-IIIa Antagonist XV-454, in Flow Models of Arterial Thrombosis Aug 1999, 20th Congress of the International Society of Thrombosis and Haemostasis, Washington, DC..

Publications

- 2010 Griffon, D.J., Abulencia, J.P., Ragety, G.R., Fredericks, L.P., Chaieb, S. A Comparative Study of Seeding Techniques and Three-Dimensional Matrices for Mesenchymal Cell Attachment. *Journal of Tissue Engineering and Regenerative Medicine*, (online advance in print), 2010.
- Abulencia, J.P., Gallardo, S., Abraham, A. Caraccio, A., Ruffini, N., McDonnell, K. Tanala, F. Sustainability of Water Resources for the Poor. *Consilience – The Journal of Sustainable Development*, 2010, 4.
- 2009 Abulencia, J.P., Theodore, L. *Fluid Flow for the Practicing Chemical Engineer*. , 2009.
- 2004 McCarty, O.J.T., Abulencia, J.P, Mousa, S.A., Konstantopoulos, K. Evaluation of Platelet Antagonists in In-Vitro Flow Models of Thrombosis. *Methods of Molecular Medicine*, 2004, 93:21-34.
- 2003 Abulencia, J.P., Gaspard, R., Healy, Z.R., Gaarde, W.A., Quackenbush, J. Konstantopoulos, K. Shear-Induced Cyclooxygenase-2 via a JNK2-Dependent Pathway Regulates Prostaglandin-Receptor Expression in Chondrocytic Cells. *Journal of Biological Chemistry*, 2003, 278(31):28388-28394,.
- 2002 Abulencia, J.P., Gaspard, R., Quackenbush, J., Konstantopoulos, K. Microarray Analysis of the Chondrocytic Cell Line T/C-28a2 under Dynamic Fluid Shear. *Annual Meeting of the Biomedical Engineering Society*, Houston, TX, 2002 O.
- Mousa, S.A. Abulencia, J.P., McCarty, O.J.T., Turner, N.A., Konstantopoulos, K. Comparative Efficacy Between the GPIIb/IIIa Antagonists, Roxifiban and Orbofiban, in Inhibiting Platelet Function in Flow Models of Thrombosis. *Journal of Cardiovascular Pharmacology*, 2002, 39:552-560.
- 2001 J. P. Abulencia, N. Tien, O.J.T. McCarty, D. Plymire, S.A. Mousa, K. Konstantopoulos, Comparative Antiplatelet Efficacy of a Novel Nonpeptide GPIIb/IIIa Antagonist (XV454) and Abciximab (c7E3) in Flow Models of Thrombosis. *Arteriosclerosis Thrombosis & Vascular Biology*, 2001, 21(1):149-156.
- Mohan, A., Sola, E., Abulencia, J.P. Denitrification of an Industrial Wastewater Treatment Plant. *Manuscript in preparation*, .
- N.S. Abraham, A. Caraccio, K. McDonnell, N. Ruffini, S. Gallardo, J.P. Abulencia, Hexavalent Chromium Removal using Coconut Derived Activated Carbon. *Manuscript in Preparation*, .
- N.S. Abraham and J.P. Abulencia, New Approaches for Preparing U.S. Engineering Students in a Global Economy. *Manuscript in preparation*, .
- N.S. Abraham, A. Caraccio, K. McDonnell, N. Ruffini, S. Gallardo, J.P. Abulencia, Hexavalent Chromium Removal using Coconut Derived Activated Carbon. *Manuscript in Preparation*, .

Abraham, N.S., Abulencia, J.P. Use of LITEE Lorn Manufacturing Case Study in a Senior Chemical Engineering Unit Operations Laboratory. Journal of STEM Education: Innovations and Research (in press), .

Name **Teodora U. Bagarinao**

Organizational Affiliations

Scientist, AQD Museum and Biodiversity Garden, SEAFDEC Aquaculture Dept., 5021 Tigbauan, Iloilo, Philippines

Curator,, SEAFDEC, AQD Museum, Tigbauan, Iloilo

Education

Ph.D. in Marine Biology, Scripps Institution of Oceanography, University of California, San Diego, USA 1991

M.Sc. Marine Biology, Scripps Institution of Oceanography, University of California, San Diego, USA 1982

BS Biology (Magna Cum Laude), University of San Carlos, Cebu City 1977

Fields of Specialization

Biology

Marine Biodiversity

Mangrove Ecology

Biology and Pest Management

Milkfish Farming

Employment

Scientist, SEAFDEC, 1978-1991-

Curator, AQD Museum, SEAFDEC, 1993-present-

Head, Training and Information, SEAFDEC, 2004 Ja-2006 My-

Head, Development Communications, SEAFDEC, 2004 Ja-2006 My-

Newsletter Writer and Editor, Fish World Matters, 1999-2002-

Newsletter Writer and Editor, AQD Matters, 2004-2006-

Science and Environment Educator, SEAFDEC, -

Research Assistant, Scripps Institution of Oceanography University of California, San Diego, 1989-1991

Teaching Assistant, Department of Biology, University of California San Diego, 1989-1991

Consultant, International Development Reseach Centre, 1983 Ag-

Trainer- Mentor of Student Interns, Philippine Science High school and University of the Philippines, -

Association Membership

Member of Editorial Board, Asian Fisheries Science

Associate Member, National Research Council of the Philippines

Lifetime Member, Philippine Aquaculture Society
Member, Asian Fisheries Society
President, Kinaadman Foundation, Inc.
Chapter Author, Food and Agriculture Organization

Honors / Awards

Fulbright Senior Scholar, National Museum of Natural History 2007 S -2008 Ja

Trainings

Information Specialists Exchange Program, 6th Conference, Southeast Asian Fisheries Development Center, Bangkok, Thailand 2005 D 12-16

The First Asian Fisheries Forum, 1986

Researches

Completed

Collection and identification of fishes, mollusks, crustaceans, corals, other animals

Sulfide biochemistry and toxicology

Biology and management of the pest snail *Cerithidea cingulata* in fish ponds

Milkfish farming in the Philippines

Natural history and ecology of milkfish, *Chanos chanos*

Ichthyoplankton

Mangrove ecology

The tangab (filter net) fishery in Iloilo Strait, hilippines: operations, catch volume, species composition, economic importance and ecological impact

Marine biodiversity in the Philippines

Early development and behavior of marine fishes

Papers Presented

Bagarinao, T.U. (2005 D 12-16). SEAFDEC/AQD's information products and services: bridging the gap between research and fish production, Information Specialists Exchange Program, 6th Conference, Pattaya, Thailand.

Bagarinao, T.U., Vetter, R.D. (1990). Detoxification and exploitation of hydrogen sulfide by marine organisms, International Conference on Hydrogen Sulphide Toxicity.

Bagarinao, T.U., Taki, Y. (1986). The larval and juvenile fish community in Pandan Bay, Panay Island, Philippines, Indo-Pacific Fish Biology: Proceedings of the 2nd International Conference on Indo-Pacific Fishes.

Publications

2007 Bagarinao, T.U. HRD through science and environment education at SEAFDEC Fish World. Fish for the People, SEAFDEC, Bangkok, Thailand, 2007.

Bagarinao, T.U. Fisheries Sector Program Research Output. Bureau of Agricultural Research, Department of Agriculture, Quezon City, Philippines, 2007, 2.

Bagarinao, T.U., Recente, C.P. What's in a tangab?. SEAFDEC Aquaculture

- Department, Iloilo, Philippines, 2007:8.
- 2006 Bagarinao, T.U. AQD Matters. SEAFDEC Aquaculture Department, 2006, 3.
- Bagarinao, T.U. Raising Rural Productivity through Aquaculture. AQD Highlights 2005, SEAFDEC Aquaculture Department, Iloilo, Philippines, 2006:68.
- Bagarinao, T.U. SEAFDEC/AQD's information products and services: bridging the gap between research and fish production. Southeast Asian Fisheries Development Center, Bangkok, Thailand, 2006.
- Bagarinao, T.U. Living with Suso in Bangus Ponds (leaflet). SEAFDEC Aquaculture Department, Iloilo, Philippines, 2006.
- 2005 Bagarinao, T.U. Regional Guidelines for Responsible Fisheries in Southeast Asia. Responsible Aquaculture, SEAFDEC Aquaculture Department, Iloilo, Philippines, 2005:43.
- Bagarinao, T.U., Primavera, J.H. Code of Practice for Sustainable Use of Mangrove Ecosystems for Aquaculture in Southeast Asia. SEAFDEC Aquaculture Department, Iloilo, Philippines, 2005:47.
- 2003 Bagarinao, T.U. Leadership in the Aquaculture SEAFDEC Aquaculture Department. AQD Highlights 2003, SEAFDEC Aquaculture Department, 2003:32.
- 2001 Lantin-Olaguer, I., Bagarinao, T.U. Gonadal maturation, fecundity, spawning, and timing of reproduction of the mud snail, *Cerithidea cingulata*, a pest in milkfish ponds in the Philippines. *Invert. Reprod*, 2001:39: 195-207.
- 2000 Bagarinao, T., Lantin-Olaguer, I. From triphenyltins to integrated management of the pest snail *Cerithidea cingulata* in mangrove-derived milkfish ponds in the Philippines. *Hydrobiologia*, 2000, 437:1-16.
- 1999 Bagarinao, T.U. Protected areas for biodiversity conservation and environment education in the Philippines. *Philippine Journal of Science*, 1999, 128(3):193-211.
- Bagarinao, T. U. Ecology and Farming of Milkfish. SEAFDEC Aquaculture Department, Iloilo, Philippines, 1999:171.
- Bagarinao, T. Order Gonorynchiformes Chanidae Milkfish. In: Carpenter, K.E. Niem, V.H. (eds) *FAO Species Identification Guide for Fishery Purposes. The Living Marine Resources of the Western Central Pacific, Batoid fishes, Chimaeras, and Bony Fishes Part I (Elopidae to Linophryinidae)*, 1999, 3:1822-1824.
- 1998 Bagarinao, T. Nature parks, museums, botanical gardens, and zoos for environment education and biodiversity conservation in the Philippines. *Ambio*, 1998, 27:230-237.
- Bagarinao, T. Ecological considerations in milkfish farming in marine pens and cages. *UPV Journal of Natural. Sciences*, 1998, 3:64-79.
- Bagarinao, T. Historical and recent trends in milkfish farming in the Philippines. *Tropical Mariculture*, De Silva, S.S. (ed, Academic Press, London, 1998:381-422.
- Bagarinao, T., Lantin-Olaguer, I. Sulfide tolerance of milkfish and tilapia in relation to fish kills in farms and natural waters in the Philippines. *Hydrobiologia*, 1998, 382:137-150.
- Bagarinao, T. Historical and recent trends in milkfish farming in the Philippines. In: De Silva, SS (ed) *Tropical Mariculture*. Academic Press, London, 1998:381-422.
- 1997 Bagarinao, T. The milkfish fry shortage in the Philippines and the supply from fisheries

- and hatcheries. UPV Journal of Natural Sciences, 1997, 2:146-166.
- 1995 Bagarinao, T.U., Flores, E.E.C. Towards Sustainable Aquaculture in Southeast Asia and Japan. SEAFDEC Aquaculture Department, Iloilo, Philippines, 1995:254.
- Bagarinao, T.U., Flores, E.E.C. The SEAFDEC Aquaculture Department at 21: R&D for sustainable aquaculture. SEAFDEC, 1995:227-249.
- Bagarinao, T.U., Flores, E.E.C. Department at 21: R&D for sustainable aquaculture. The SEAFDEC Aquaculture, (Bagarinao and Flores,eds.), 1995:227-249.
- Bagarinao, T.U., Flores, E.E.C. Towards Sustainable Aquaculture in Southeast Asia and Japan. SEAFDEC Aquaculture Department, Iloilo, Philippines, 1995:254.
- 1994 Bagarinao, T. Systematics, distribution, genetics and life history of milkfish. In: Env. Biol. Fisheries. Also in Proc.,13th Philippine Chemistry Congress, 1994, 39:23-41.
- Bagarinao, T.U. Systematics, genetics, distribution and life history of milkfish *Chanos chanos*. Env. Biol. Fish, 1994, 39:23-41.
- Bagarinao, T.U. Systematics, genetics, distribution and life history of milkfish *Chanos chanos*. Env. Biol. Fish, 1994, 39:23-41.
- Emata, A.C., Eullaran, B., Bagarinao, T.U. Induced spawning and early life description of the mangrove red snapper *Lutjanus argentimaculatus*. Aquaculture, 1994, 121:381-387.
- 1993 Bagarinao, T.U., Vetter, R.D. 1993. Sulphide tolerance and adaptation in the Valifornia killifish *Fundulus parvipinnis*, a salt marsh resident. Journal of Fish Biology, 1993, 42:729-748.
- 1992 Bagarinao, T.U. Sulfide-hemoglobin interactions in the sulfide-tolerant salt marsh resident, California killifish *Fundulus parvipinnis*. Journal of Comp. Physiology, 1992:614-624.
- 1991 Bagarinao, T.U. Biology of milkfish (*Chanos chanos* Forcskal). SEAFDEC Aquaculture Dept., Iloilo, Philippines, 1991:94.
- Bagarinao, T.U. Biology of milkfish, *Chanos chanos* (Forsskal). SEAFDEC Aquaculture Department, Iloilo, Philippines, 1991:91.
- 1990 Bagarinao, T.U., Vetter, R. Oxidative detoxification of sulfide by the mitochondria of the California killifish (*Fundulus parvipinnis*) and the speckled sanddab (*Citharichthys stigmaeus*). Journal of Comp. Physiology B, 1990, 160:519-527.
- 1989 Bagarinao, T.U. Vetter, R. Sulfide tolerance and detoxification of shallow-water marine fishes. Marine Biology, 1989, 103:291-302.
- 1987 Bagarinao, T.U., Kumagai, S. Qccurence and distribution of milkfish larvae, *Chanos chano* of the western coast of Panay Island, Philippines. Environmental Biology, 1987, 19:155-160.
- Bagarinao, T.U., et al. Important fish and shrimp fry in Philippine coastal waters: identification, collection and handling. SEAFDEC Aquaculture Department, 1987, 10:53.
- Bagarinao, T.U. Camacho, A.S. Impact of fishpond development on the mangrove ecosystem. Mangroves of Asia and the Pacific: Status Management in Asia and the Pacific, 1987:383-406.
- 1986 Bagarinao, T.U. The milkfish seed resources in Sri Lanka: status, problem and recommendations. Journal of Inland Fisheries, 1986, 3:96-107.

- Bagarinao, T.U. Thayaparan, K. The length-weight relationship, food habits and condition factor of wild juvenile milkfish in Sri Lanka. *Aquaculture*, 1986, 55:241-246.
- Bagarinao, T.U. et al. Feeding habits larval rabbitfish, *Siganus guttatus* in the laboratory. *The First Asian Fisheries Forum*, 1986:573-576.
- Bagarinao, T.U., Kunvankij, P. An incidence of swimbladder stress syndrome in hatchery-reared sea bass (*Lates calcarifer*) larvae. *Aquaculture*, 1986, 51:181-189.
- Bagarinao, T.U. Yolk resorption, onset of feeding and survival potential of three tropical marine fish reared in the hatchery. *Marine Biology*, 1986, 91:449-459.
- Bagarinao, T. The milkfish seed resources in Sri Lanka: status, problems and recommendations. *J. Inland Fish. Sri Lanka*, 1986.
- Bagarinao, T., Chua, T.E. Egg size and larval size among teleosts: implications to survival potential. In: JL MacLean, LB Dizon and LV Hosillos (eds.) *The First Asian Fisheries Forum*. Asian Fisheries Society, Manila, Philippines, 1986:651-656.
- Bagarinao, T.U., Taki, Y. The larval and juvenile fish community in Pandan Bay, Panay Island, Philippines. *Indo-Pacific Fish Biology: Proc., of the 2nd International Conference on Indo-Pacific Fishes-*, 1986:728-739.
- 1985 Bagarinao, T.U. et al. Growth of juvenile milkfish *Chanos* in a natural habitat. *Marine Ecol. Prog. Ser.*, 1985, 22:1-6.
- 1984 Bagarinao, T.U. Duray, M. Weaning of hatchery-bred milkfish larvae from live food to artificial diets. *Aquaculture*, 1984, 41:325-332.
- 1981 Bagarinao, T.U. Kumagai, S. Studies on the habitat and food of juvenile milkfish in the wild. *Fisheries Resources of Journal in the Philippines*, 1981, 6:1-10.
- 1980 Bagarinao, T.U. et al. A study of the milkfish fry fishing gears Panay Island. *SEAFDEC Aquaculture Department*, 1980, no. 6:34.
- Bagarinao, T.U. Kawamura, G. Fishing methods and gears in Panay Island. *Mem. Fac. Fish.*, 1980, 29:81-121.
- Bagarinao, T.U. et al. A fundamental study of the behavior of milkfish fry for improving the efficiency of traditional fry collecting gears in the Philippines. *Mem. Kagoshima University Res. Center S. Pacific*, 1980, 1:65-74.
- 1979 Bagarinao, T.U., Kumagai, S. Results of drift card experiments and considerations on the movement of milkfish eggs and larvae in the northern Sulu Sea. *Fisheries Resources Journal in the Philippines*, 1979, 4(2):62-81.
- Bagarinao, T.U., Hunter, J.R. The visual feeding threshold and action spectrum northern anchovy (*Engraulis mordax*) larvae. *Ca/COFI Rep.* :245-254.
- Camacho, A.S., Bagarinao, T.U. Impact of fishpond development on the mangrove ecosystem in the Philippines. *Mangroves of Asia and the Pacific: Status and Management, Technical Report, UNDP/UNESCO Research & Training Programme on Mangrove Ecosystem in Asian and the Pacific*, .

Name **Nimfa L. Bracamonte**

Organizational Affiliations

Professor V1, Dept. of Sociology, Mindanao State University (MSU-IIT), Iligan City

Education

Ph.D. in Sociology, University of the Philippines, Diliman, Quezon City 1996

Fields of Specialization

Sociology

Social Sciences

Employment

Consultant, Hope for Change, Incorporation, -

Project Consultant, JSI/RTI, 2002-2003-

Consultant, ENR Consultants, Incorporation, 2003 F-My-

Association Membership

Member, National Research Council of the Philippines

Honors / Awards

2nd Best Paper - Development Research Category, 16th NOMCARRD Regional Symposium on R & D Highlights 2004 Ag 5-6

1st Runner Up Best Paper, 2nd MSU-IIT Annual In House Review of R &D Projects 2004 Je 24-25

Best Poster Rainforestation in Mt. Malindang Natural Park, 7th MSU-IIT Annual In-House Review of Research & Development Project 2009 Je 24

Best Paper.Social Science Professional Category, 7th MSU-IIT Annual In-House Review of Research & Development Project 2009 Je 24

2nd Place. Best Paper (Research Graduate Level), 7th MSU-IIT Annual In-House Review of Research & Development Project 2009 Je 24

First Place. Best Paper (Research Undergraduate Level), 7th MSU-IIT Annual In-House Review of Research & Development Project 2009 Je 24

Plaque of Appreciation (35 years of service to MSU-IIT), 41st Charter Anniversary 2009 JI 12

Best Poster Biodiversity Assessment and Conservation of Critical Resources in Mt.Diwata Range, Agusa, National Conference on Research in Higher Education 2009 N 12-13

Trainings

2nd MSU-IIT Annual In-House Review of Research and Development Projects, MSU-IIT, Iligan City 2005

Action Planning Conference for Working Children, Maria Cristina Hotel, Iligan City 2004

Faculty Orientation-Seminar on Gender and Development, Iligan City 2004

International Conference on Bajau/Sama Communities, University Malaysia Sabah, Kota Kinabalu, Sabah 2004

16th NOMCARRD Regional Symposium on R&D Highlights, Central Mindanao University, Musuan Bukidnon City 2004

Women's Month in Tubod, Lanao del Norte, Lanao del Norte 2002

6th APSSA Conference, Kunming, China 2002

Researches

Completed

The socioeconomic and cultural dimensions of critical resources in Agusan de Sur

Participatory Rapid Appraisal of Barangay Tibanga

Biodiversity Assessment and Conservation of Critical Resources in Agusan Del Sur (Focus: Mt. Diwata): A Consolidated Report

Social acceptability survey - Focus

Survey of indogenous People's access and utilization of ECD Service in Regions 6, 7 and 12

Envolving a development framework

Street adolescents in Davao City

Rebuilding two communities

Ancestral domain claim of the Higaunons

Hydroelectric Project Feasibility Study of Agus III Hydroelectric Power Plant

A situational analysis of child prostitution

Social acceptability and marketability of WFMCS in Muslim-Dominated Areas of Mindanao

Barangay screening survey of water sources, practices and utilization

The Logum-Baobo River Irrigation Project in Veruela, Agusan del Sur: A Social impact assessment

On-Going

Participatory action research on working children in Iligan City

Social acceptability and marketability of well-family and midwife clinics in Muslim-dominated areas of Mindanao

EIA on Chromite and Nickel Mining in Dinagat Islands

Monitoring of the Rainforestation Project in Sebucal, Mt. Malindang Range

EIA on Bioethanol Plant at Cagayan de Oro City

EIA on Mining in Dinagat Island

Monitoring of the Rainforestation Project in Sebucal, Mt. Malindang Range

Papers Presented

Bracamonte, N.L. (2009 O 16-17). Social Forces and Critical Resources in Mt. Diwata Range, Agusan del Sur, Philippine Sociological Society National Conference.

Bracamonte, N.L (2009 O 16-17). Indigenous People and the Hydropower Development Project in Talakag, Bukidnon, Philippine Sociological Society National Conference.

Bracamonte, N.L (2009 N 23). The Socioeconomic Dimension of Mining: The Case of La Purisma, Prosperidad Agusan del Sur, 7th General Assembly of the NRCP Mindanao Regional Cluster.

Bracamonte, N.L (2009 N 23). Rainforestation and Livelihood Security Among the Indigenous People on Mount Malindang, Philippines: Response to Climate Change, 7th General Assembly of the NRCP Mindanao Regional Cluster.

Bracamonte, N.L (2009 N 23). Critical Resources in Mt. Diwata Range, Agusan del Sur: Opportunities Towards Integrated Biodiversity Management and Conservation, 7th General Assembly of the NRCP Mindanao Regional Cluster.

Bracamonte, N.L (2009 N 12-15). Rainforestation and Livelihood Security Among the Indigenous People of Mount Malindang, Philippines: Response to Climate Change, 9th Annual Scientific Convention of the Philippine Society for the Study of Nature, Inc. MSU-IIT Iligan City.

Bracamonte, N.L (2009 N 12-13). Biodiversity Assessment and Conservation of Critical Resources in Mt. Diwata Range, Agusan del Sur, National Conference on Research in Higher Education.

Bracamonte, N.L (2009 My 11). Butterfly Farming, Department of Sociology, MSU-IIT, Iligan City.

Bracamonte, N.L (2009 Mr 26). Educating the communities on the Condition of the Environment: Insights from the field, Biology Department and OVCRE. Mini Theatre, MSU-IIT, Iligan City.

Bracamonte, N.L (2009 Mr 13). Women and Water. Forum on Gender and Environmental Concerns, Sociology Department, CASS, Mini Theatre, MSU-IIT, Iligan City.

Bracamonte, N.L (2009 June 24). Participation of the Indigenous Peoples in the Hydropower Development Project in Talakag, Bukidnon, 7th MSU-IIT Annual In-House Review of Research & Development Projects, MSU-IIT Board Room.

Bracamonte, N.L (2009 Je 24). Kamayo Women in Conflict Management in Barangay Soriano, Tagbina, Surigao del Sur, 7th MSU-IIT Annual In-House Review of Research & Development Projects, MSU-IIT Board Room.

Bracamonte, N.L (2009 Je 24). Rido Among Maranaos in Pualas, Lanao del Sur, 7th MSU-IIT Annual In-House Review of Research & Development Projects, MSU-IIT

Bracamonte, N.L (2009 Je 24). Rainforestation in Mount Malindang Natural Park, Philippines for Biodiversity Conservation and Livelihood Security, 7th MSU-IIT Annual In-House Review of Research & Development Projects, MSU-IIT, Iligan City

Bracamonte, N.L (2009 Ji). Barangay Screening Survey of Water Resources, Utilization and Practices in Iligan City, Iligan Rivers Summit.

Bracamonte, N.L (2009 F 12-13). Social Science Research in Mindanao: Issues and Challenges, 6th General Membership Assembly of the NRCP Mindanao Regional Cluster.

Bracamonte, N.L (2009 Ag 6-7). Rainforestation in Mount Malindang Natural Park, Philippines for Biodiversity Conservation and Livelihood Security, NOMCARRD's 21st Regional Research and Development Highlights.

Bracamonte, N.L. (2007 My 21-237). Social and economic aspects of the Agusan Marsh key biodiversity Area, 1st Scientific Conference on the Agusan Marsh, Butuan City,

Agusan del Norte.

Bracamonte, N.L. (2005). The Logum-Baobo River Irrigation Project in Veruela, Agusan del Sur: A Social Impact Assessment, 2nd MSU-IIT Annual In-House Review of Research and Development Projects, MSU-IIT, Iligan City.

Bracamonte, N.L. (2004). The Essence of Development as Epitomized in Formal and Alternative Educational Settings: A Discourse, 26th Annual National UGAT Conference, Inc., Capitol University, Cagayan de Oro City.

Bracamonte, N.L. (2004). The Logum-Baobo River Irrigation Project in Veruela, Agusan del Sur: A Social Impact Assessment, 16th NOMCARRD Regional Symposium on R&D Highlights, Central Mindanao University, Musuan Bukidnon City.

Bracamonte, N.L. (2004). Evolving a Development Framework for the Sama Dilaut in an Urban Center in Southern Philippines, International Conference on Bajau/Sama Communities, University Malaysia Sabah, Kota Kinabalu, Sabah.

Bracamonte, N.L. (2004). Gender Concerns on Campus, Faculty Orientation-Seminar on Gender and Development, Iligan City.

Bracamonte, N.L. (2004). The Working Children in Iligan City: A Participatory Action Research, Action Planning Conference for Working Children, Maria Cristina Hotel, Iligan City.

Bracamonte, N.L. (2003). Barangay Screening Survey of Water Sources, Utilization and Practices, 1st MSU-IIT Annual In-house Review of Research and Development Projects.

Bracamonte, N.L. (2003). Enhancing Indigenous People's Access to and utilization of ECD Services in Region VI, 15th NOMCARRD Regional Symposium on Research and Development Highlights.

Bracamonte, N.L. (2003). Access to Utilization of maternal Care Services among the Indigenous Peoples of Region VI, 2nd National Conference on Philippine Health Social Science.

Bracamonte, N.L. (2003). Relief and Psychosocial Development Work with the Internally Development Persons of Lanao, 4th National Women's Studies Association of the Philippines.

Bracamonte, N.L. (2003). Survey of indigenous peoples' access to and utilization of ECD services in Region V1, 1st MSU -IIT Annual In-House Review of R&D Projects, Iligan City.

Bracamonte, N.L. (2002). Gender Encounter in the Streets: The Buntog in Davao City, 3rd National Conference.

Bracamonte, N.L. (2002). Empowering women Thru Rights and Reproductive Health, Women's Month in Tubod, Lanao del Norte.

Bracamonte, N.L. (2002). Survival in an Urban Setting: Where to Sama Dilaut, 24th National UGAT Conference.

Bracamonte, N.L. (2002). The Children of Today: A Brief Situationer, The Orientation on the Rights of the Child.

Bracamonte, N.L. (2002). Harmonious Assertiveness, Training of Peace and Building Skills for the Barangay Officials and other Residents, Iligan Center for Peace Education and Research and Philippine Business Social Progress.

Bracamonte, N.L. (2002). Envolving a Development Framework for the San Dilaut in an Urban Center in Southern Philippines, 6th APSSA Conference in Kunming, China.

Bracamonte, N.L. (2001). Cultural Survival: The Case of the Higaunon Tribe in Southern Philippines, International Center, Manila, Philippines.

Bracamonte, N.L. Survey of Indigenous People's Access to and Utilization of ECD services in Region VI, 1st MSU-IIT Annual In-House Review of Research and Development Projects.

Publications

- 2009 Bracamonte, N.L. Introductory Sociology Workbook. Sociology Department, CASS, MSU-IIT, Iligan City, 2009.
- Bracamonte, N.L. Extent Circulation: Sociology Faculty and Students enrolled in Sociology 1 Research and Development for Mindanao. Sociology Department, CASS, MSU-IIT, Iligan City, 2009.
- Bracamonte, N.L. The Ethnic Dimension in an Industrial Setting: Muslim Workers on Mindanao. Sociology Department, CASS, MSU-IIT, Iligan City, 2009.
- Bracamonte, N.L. Child Prostitution as a New Form of Slavery in the Face of Globalization. Sociology Department, CASS, MSU-IIT, Iligan City, 2009.
- Bracamonte, N.L. Conjunction, Confluence, Configuration: Turning Points in the Narratives of Former Revolutionaries. Sociology Department, CASS, MSU-IIT, Iligan City, 2009.
- Bracamonte, N.L. Abstract of Paper Barangay Screening Survey of Water Resources, Utilization and Practices in Iligan City. PAEPI-Iligan, 2009.
- Bracamonte, N.L. Abstract of Paper Social Forces and Critical Resources in Mt. Diwata Range, Agusan Del Sur. PSS Center, 2009.
- Bracamonte, N.L. Abstract of Paper Indigenous Peoples and the Hydropower Development Project in Talakag, Bukidnon. PSS Center, 2009.
- 2008 Bracamonte, N.L. The socioeconomic and and cultural dimensions of critical resources in Mt. Sambilikan, Diwata Range, Agusan del Sur. Journal of Nature Studies, 2008 Ja-Je, 7(1).
- Bracamonte, N.L. Social and economic aspects of the Agusan Marsh key biodiversity Area. Proceedings of the 1st Scientific Conference on the Agusan Marsh, Butuan City, Agusan del Norte (UNESCO Jakarta Office and Philippine Council for Aquatic and Marine Research and Development, 2008.
- 2004 Bracamonte, N.L. Relief and psychological development work with the internally displaced persons (IDPs) in Lanao. Lectern, 2004 Ja, 10(1).
- 2003 Bracamonte, N.L. Working children in Iligan City: A participatory action research (A Primer). A Publication of Hope for Change Inc., Iligan City, 2003.
- Bracamonte, N.L. Envolving a development framework for the Sama Dilaut in an Urban Center in Southern Philippines. Lectern, 2003, 9:4.
- 2002 Bracamonte, N.L. The ethnic dimension in an Industrial Setting: Muslim Workers on Mindanao. Mindanao Journal, 2002, 25.
- 2001 Bracamonte, N.L. Cultural survival: The case of the Higaunon tribe in the Southern Philippines. Lectern, MSU-IIT, 2001.
- 1999 Bracamonte, N.L. The ancestral domain claim of the Higaunon in Cauyanon, Opol,

Misamis Oriental. *The Mindanao Forum*, 1999, 14.

Bracamonte, N.L. Child rearing practices among the mamanuas of Pangaylan, Santiago, Agusan del Norte. *The Mindanao Forum*, 1999, 14(1).

Name **Nancy P. Castilla**

Organizational Affiliations

Senior Associate Scientist, International Rice Research Institute, DAPO Box 7777, Metro Manila, Philippines

Education

Ph.D. in Phytopathology, University of Paris XI, Orsay, France 1998

M.S. Biology major in Environmental Biology, University of the Philippines, Diliman, Quezon City 1990

B.S. Biology (Ecology), University of the Philippines at Los Baños, College, Laguna 1981

Fields of Specialization

Epidemiology (Rice diseases)

Mycology (Rice diseases)

Pest Integrated Management

Employment

Research Assistant, Plant Pathology Division, International Rice Research Institute, 1991 Ja-1995 S

Senior Associate Scientist, Plant Breeding, Genetics & Biotechnology Division, International Rice Research Institute, 2009-present

Associate Scientist, Entomology & Plant Pathology Division/ Plant Breeding Genetics & Biotechnology Division, IRRI, 2001 Je-2009 Mr

Assistant Scientist, Entomology & Plant Pathology Division, International Rice Research Institute, 1998 O-2001 My

Senior Research Assistant, Plant Pathology Division, International Rice Research Institute, 1995 O-1998 S

Graduate Assistant, Entomology Division, International Rice Research Institute, 1987 Mr-1990 D

Project Evaluation Assistant, Ministry of Human Settlements, 1982 Ja-1986 Ja

Association Membership

Member - Epidemiology Committee, American Phytopathological Society

Member, Phytopathological Society of the Philippines

Honors / Awards

International Travel Award, American Phytopathological Society 2008 JI

Science Award for Outstanding Scientific Support Team, The Consultative Group on International Agricultural Research (CGIAR) 2002

Outstanding Year-Round Performance, Entomology and Plant Pathology Division, International Rice Research Institute 1993

Excellence Award, International Rice Research Institute 1999

Special Achievement Award, International Rice Research Institute 1994

Trainings

Introduction to R: Data management and statistical analysis, International Rice Research Institute 2009 O 26-30

Using Microsoft Access 2003, International Rice Research Institute 2005 O 3

9th International Workshop on Plant Disease Epidemiology, Landerneau, France 2005 Ap 11-15

Using Microsoft Office Excel 2003, International Rice Research Institute 2004 O 14

Using Microsoft Office Word 2003, International Rice Research Institute 2004 O 1

Using Microsoft Office Powerpoint 2003, International Rice Research Institute 2004 N 25

Ecological Methods in Biodiversity Research, International Rice Research Institute 2003 Ag 30-S 3

Analysis of Categorical Data II, International Rice Research Institute 2001 Je 4-8

Cluster Analysis Training Workshop, International Rice Research Institute 2000 My 8-12

Principal Components Training Workshop, International Rice Research Institute 2000 My 15-19

Advanced Experimental Designs, International Rice Research Institute 2000 Mr 27-31

Introduction to SAS for Windows Course, International Rice Research Institute 2000 Mr 20-24

Basic Photography and Digital Imaging Workshop, International Rice Research Institute 2000 JI 17-21

Self-Editing Course, International Rice Research Institute 1999 My 17-28

Analysis of Mixed Models using CropStat., International Rice Research Institute 1998 S 23-2008 S 25

Analysis of Categorical Data, International Rice Research Institute 1997 JI 7-11

Principal Components Analysis-Cluster Analysis, International Rice Research Institute 1994 Mr 21-25

Systems Analysis and Crop Modelling Course, International Rice Research Institute 1993 D 16-1994 F 4

Regression and Correlation of Experimental Data, International Rice Research Institute 1992 My 20-25

Interpretation and Presentation of Research Results, International Rice Research Institute 1992 Je 1-8

Field Plot and Plot Sampling Techniques, International Rice Research Institute 1991 S 9-13

Orientation Course on Environmental Studies, University of the Philippines at Los Baños, 1986 Ap 7-My 29

Community Mobilization Training, Ministry of Human Settlements, Tanay, Rizal,

Philippines, 1983 My 3-Je 4

Researches

Completed

Synchrony of Planting and Proportion of Susceptible Varieties Affect Rice Tungro Disease Epidemics in the Philippines

Ongoing

Analysis of the Etiology of Red STripe Disease of Rice

Papers Presented

Castilla, N.P., Pangga, I.B. (2003 F 2-7). Plant Canopy Architecture and Disease Development in Tropical Rice Pathosystems, 8th International Congress of Plant Pathology, Christchurch, New Zealand.

Castilla, N. P., Savary, S. (2002 S 16-18). Interaction of Nutrients with Rice Diseases and Insect Pests: Existing Knowledge and Research Directions, International Rice Congress, Beijing China.

Castilla, N.P. (2002 My 20-22). Disease by Nutrient Interactions, Planning Workshop on Integrated Nutrient and Pest Management in Intensive Irrigated Rice Ecosystems, International Rice Research Institute .

Castilla, N.P. (2001 S 6). Epidemiology of Blast in Rice Cultivar Mixture Planting: Some Issues for Research, Workshop on Rice Blast in China, Yunnan Agricultural University, Kunming, Yunnan Province, China.

Castilla, N.P. (2001 Ag 7-9). Epidemiology of Blast in Rice Cultivar Mixture Planting: Some Issues for Research, Impact Symposium on Exploiting Biodiversity for Sustainable Rice Blast Management, Sichuan, China.

Castilla, N. P., Savary, S. (2000 Ag 17-20). Effect of Spatial Pattern of Initial Infections on the Epidemics of Rice Sheath Blight Caused by *Rhizoctonia solani* Kühn, 3rd International Symposium on *Rhizoctonia*, National Chung Hsing University, Taichung, Taiwan.

Castilla, N. P., Savary, S. (2000 Ag 17-20). Epidemiology of Rice Sheath Blight Caused by *Rhizoctonia solani* Kühn under Tropical Conditions, 3rd International Symposium on *Rhizoctonia*, National Chung Hsing University, Taichung, Taiwan.

Castilla, N.P. (1999 Ag 16-19). Current Status and Future needs for Inoculum Threshold of Seed-borne Pathogens- The basis for Plant Quarantine Regulations, International Seed Testing Association-Plant Disease Committee Symposium, Iowa State University, USA.

Castilla, N.P. (1999 Ag 16-19). Current Status and Future Needs for Inoculum Threshold of Seed-borne Pathogens-The Basis for Plant Quarantine Regulations, International Seed Testing Association -Plant Disease Committee Symposium, Iowa State University , USA.

Castilla, N.P., Elazegui, F.A., Savary, S. (1995 My 2-5). Rice Sheath Blight: A Case Study on Focal Expansion in Plant Disease Epidemiology, 25th Anniversary and Annual Scientific Meeting, Pest Management Council of the Philippines, Inc., Pryce Hotel, Cagayan de or City, Philippines.

Castilla, N.P., Ramos, H.C., Aspiras, R., Dela Cruz, B.A., Melendrez, T.C. (1982 My 8). Isolation and Characterization of the Nitrogen-fixing Bacteria Associated with the Roots of *Pipturus arborescens* (Link) C. B. Robb and *Morinda citrifolia* L., 10th G. O. Ocfemia Memorial Lecture and Annual Scientific Meeting, Philippine Society of Microbiology, Inc. University of the Philippines at Los Baños, Laguna.

Publications

- 2007 Tang, Q. Y., Peng, S. B., Buresh, R. J., Zou, Y. B. Castilla, N. P., Mew, T. W., Zhong, X. H. Rice varietal difference in sheath blight development and its association with yield loss at different levels of N fertilization. *Field Crops Research*, 2007, 102(3):219-227.
- 2005 Savary, S., Castilla, N.P., Elazegui, F.A., Teng, P.S. Multiple effects of two drivers of agricultural change, labour shortage and water scarcity, on rice pest profiles in tropical Asia. *Field Crops Research*, 2005, 91:263-271.
- 2004 Willocquet, L., Elazegui, F.A., Castilla, N., Fernandez, F., Fischer, K.S., Peng, S., Paul S. Teng, R. K., Srivastava, H. M., Defeng Zhu, S., Savary, S. Research Priorities for Rice Pest Management in Tropical Asia: A Simulation Analysis of Yield Losses Management Efficiencies. *Phytopathology*, 2004, 94(7):672-682.
- Elazegui, F.A., Castilla, N.P., Dalisay, T.U., Mew, T.W. Causal agent of red stripe disease of rice . *Plant Disease*, 2004, 88:1310-1317.
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- 2003 Castilla, N.P., Savary, S. Interaction of nutrients with rice diseases and insect pests: Existing knowledge and research directions. *Rice Science: Innovations and Impact for Livelihood*, In: Proceedings of the International Rice Research Conference. T.W. Mew, D.S. Brar, D. Dawe and B. Hardy, eds. International Rice Research Institute, Metro Manila, Philippines, 2003:487-505.
- Singh, H. M. R. K., Rizvi, S. M. A., Elazegui, F. A., Castilla, N. P., Savary, S. Yield reduction due to brown spot and leaf folder injuries at varying levels of fertilizers and water supply to rice crop.. *Ann. Plant Prot. Sci.*, 2003, 11(1):16-19.
- 2002 Gimenez, C., Otto, R.F., Castilla, N. Productivity of leaf and root vegetable crops under direct cover. *Scientia Horticulturae - SCI HORT-AMSTERDAM*, 2002, 94(1):1-11.
- Willocquet, L., Savary, S., Fernandez, L., Elazegui, F.A., Castilla, N., Zhu, D., Tang, Q., Huang, S., Singh, H.M., Srivastava, R.K. Structure and validation of RICEPEST, a production situation-driven, crop growth model simulating rice yield response to multiple pest injuries for Tropical Asia. *Ecological Modelling*, 2002, 153:247-268.
- 2001 Cabunagan, R.C., Castilla, N.P., Coloquio, E.R., Tiongco, E.R., Truong, X.H., Fernandez, J., Du, M.J., Zaragosa, B., Hozak, R.R., Savary, S., Azzam, O. Synchrony of planting and proportions of susceptible varieties affect rice tungro epidemics in the Philippines. *Crop Protein*, 2001, 20:499-510.
- Mew, T. W., Castilla, N. P., Elazegui, F. A., and Vera Cruz, C. M. The etiology of red stripe of rice: Current status and future directions. *International Rice Research Notes*, 2001, 26(1):4-10.
- Cabunagan, R.C., Castilla, N., Azzam, O. Analysis of factors affecting the occurrence of rice tungro epidemics in the Philippines and implications to disease management. *Journal of Tropical Plant Pathology*, 2001, 37(1):59-75.
- 2000 Savary, S., Castilla, N.P., Willocquet, L. Analysis of the spatiotemporal structure of rice sheath blight epidemics in a farmer's field. *Plant Pathology*, 2000, 50:53-68.
- Savary, S., Willocquet, L., Elazegui, F.A., Castilla, N.P., Teng, P.S. Rice pest constraints in tropical Asia: Quantification of yield losses due to rice pests in a range of production situations. *Plant Disease*, 2000, 84:357-369.

- 1997 Savary, S., Elazegui, F.A., Pinnschmidt, H.O., Castilla, N.P., Teng, P.S. A New Approach to Quantify Crop Losses due to Rice Pests in Varying Production Situations. IRRI Discussion Paper Series No. 20. International Rice Research Institute, Manila, Philippines, 1997:53 p..
- Castilla, N. P., Elazegui, F. A. and Savary, S. Method for the detection of the rice sheath blight pathogen in soil samples using mungbean . International Rice Research Notes, 1997, 22(2):48-49.
- 1996 Castilla, N. P., Leaño, R. M., Elazegui, F. A., Teng, P. S., Savary, S. Effects of plant contact, inoculation pattern, leaf wetness regime, and nitrogen supply on inoculum efficiency in rice sheath blight. Journal of Phytopathology, 1996, 144:187-192.
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- 1994 Castilla, N. P., Ynalvez, M. A. McLaren, C. G., Savary, S. Path analysis of focus expansion in rice sheath blight. International Rice Research Notes, 1994, 19(4):27-28.
- 1993 Castilla, N.P., Elazegui, F.A., Leaño, R.M., Savary, S. A simple method to assess the relative amount of leaf wetness in rice canopies. International Rice Research Notes, 1993, 20(1):36-37.
- Castilla, N. P., Mabbayad, M. O. Barrion, A. T., Elazegui, F. A., Savary, S. Combined effects of pests in farmers' fields. Methodological outline of a yield-loss database in rice. International Rice Research Notes, 1993, 18(3):41-42.
- 1991 Castilla, N.P., Khan, Z.R. Mating sequence of rice leafroller (LF) *Marasmia patnalis* Bradley. International Rice Research Newsletter, 1991, 16(6):21-22.
- 1988 Khan, Z.R., Barrion, A.T., Litsinger, J.A., Castilla, N.P., Joshi, R.C. A bibliography of rice leafrollers (Lepidoptera: Pyralidae). Insect Science and its Application, 1988, 9(2):129-174.
- 2001 Mew, T.W., Castilla, N. P., Huelma, C. Current status and future needs for inoculum threshold of seed-borne pathogens, the basis for plant quarantine regulations. Seed Health Symposium, In: Proceedings of the 3rd International Seed Testing Association Plant Disease Committee, J.W. Sheppard, ed. The International Seed Testing Association, Zurich, Switzerland, 2001:5-9.

Name **Fabian M. Dayrit**

Organizational Affiliations

Dean, School of Science and Engineering, Ateneo de Manila University, Loyola Heights, Quezon City

Executive Director, Conrado S. Dayrit Foundation, Inc,

Education

Ph.D. in Chemistry, Princeton University, 1981

M.A. Chemistry, Princeton University, 1978

B.S. Chemistry, Ateneo de Manila University, Manila 1975

Fields of Specialization

Chemistry

Phytochemistry

Biochemistry

Environmental Science

Employment

Dean, School of Science and Engineering, Ateneo de Manila University, 2000 Ap-present

Professor, Ateneo de Manila University, 1992 Ap

Associate Professor, Ateneo de Manila University, 1987 Ap

Assistant Professor, Ateneo de Manila University, 1983 Ap

Founder and Fist Director, Environmental Science Program, Ateneo de Manila University, 1992 - 2000

Project Director, UP-Ateneo-La Salle PhD Consortium, 1987-1992

Chair, Department of Chemistry, Ateneo de Manila University, 1986-1987

Chair, DOST Roadmap for Nanotechnology Development in the Philippines, 2008 Ap-JI

Member, Human Resource Development-Tech. Workng Group, Eng.,Research and Dev., SEI-DOST,, 2007 O- present

Association Membership

Regular Member, National Research Council of the Philippines

Member, Air and Waste Management Association of the Philippines

Member, New York Academy of Sciences

Member, American Chemical Society

Chair, PGMA-Science Education Graduate Scholarships (PGMA-SEGS), Commission on Higher Education,

Honors / Awards

Achievement Award (Chemical Education), PFCS 1995

Best Paper Award, National Academy of Science and Technology 2007 JI

Achievement Award for the Chemical Sciences, National Research Council of the Philippines 2002 Mr

Best Paper Award, National Academy of Science and Technology 1995

Achievement Award in Chemistry Education, Philippine Federation of Chemistry Societies 1995 My

Outstanding Young Men of the Philippines (TOYM) for 1993, in the field of Chemistry, Philippine Jaycees 1995 Ap

Senior Research Grantee, Fulbright Foundation 1993 Ag-D

Presidential Lingkod Bayan Award for Government Service (Civil Service, CSC Award by President Corazon C. Aquino 1988

Balik-Scientist Award, National Science and Technology Authority 1982 D

Top 10, Chemistry Licensure Examinations, Professional Regulation Commission 1975

Cum Laude, BS Chemistry, Ateneo de Manila University 1975

Trainings

Julian Banzon Centennial Memorial Lecture, Traders Royal Hotel 2008 S 11

Researches

Completed

Phytochemistry studies of Lagundi-Isolation of the pharmacologically active constituents.

Phytochemistry studies of Blumea balsamifera: Isolation of Pharmacologically active constituents.

Papers Presented

Dayrit, F.M., Lagurin, L.G., Macahig, R., Huang, Z. (2008 My 24). Biotransformation of Plant Natural Products En Route to Active Metabolites, 28th PAASE Conference, Georgetown University, Washington DC.

Dayrit, F.M. (2008 JI 8). A Nanotech Strategy for the Philippines, Annual Meeting of the Outstanding Young Scientists, National Academy of Science and Technology, Manila Hotel.

Dayrit, F.M. (2008 Ag 5). Nanotechnology: Business and Practical Applications: Where the Philippines Is and Where It Should Be, Management Association of the Philippines, Manila Golf and Country Club, Makati.

Dayrit, F.M., Buenafe, O.E.M., de Vera, I.M.S., Dimzon, I.K.D., Gonzales, E., Santos, J.E.R. (2007 S 4). Updates on the Quality Factors of Virgin Coconut Oil, 46th Annual Convention of the Philippine Association of Food Technologists, Inc., Heritage Hotel, Pasay City.

Dayrit, F.M., Santos, J.E.R. (2007 O 26). Analysis of Volatile Compounds from Heated Vegetable Oils, 13th Region X/XII Chemistry Congress, Cagayan de Oro City.

Dayrit, F.M., Buenafe, O.E.M., Chainani, E.T., de Vera, I.M.S., Dimzon, I.K.D., Gonzales, E.G., Santos, J.E.R. (2007 F 7). Standards for Essential Composition and Quality Factors of Commercial Virgin Coconut Oil, VCO Symposium of the National Academy of Science and Technology, Traders Hotel Manila.

Dayrit, F.M., Buenafe, O.E.M., Chainani, E.T., de Vera, I.M.S., Dimzon, I.K.D., Gonzales, E.G., Santos, J.E.R. (2007 F 16-17). Molecular Analysis of Virgin Coconut Oil, 27th Annual PHASE Meeting and Symposium, Century-Park Hotel, Manila.

Dayrit, F.M., Buenafe, O.E.M., Chainani, E.T., de Vera, I.M.S., Dimzon, I.K.D., Gonzales, E.G., Santos, J.E.R. (2007 Ap 11-13). Determination of Monoglycerides and Diglycerides in Virgin Coconut Oil by GC-MS and ³¹P NMR Spectroscopy, 22nd Philippine Chemistry Congress, Tagaytay City.

Dayrit, F.M., Buenafe, O.E.M., Chainani, E.T., de Vera, I.M.S., Dimzon, I.K.D., Gonzales, E.G., Santos, J.E.R. (2007 Ap 11-13). Standards for Essential Composition and Quality Factors of Commercial Virgin Coconut Oil, 22nd Philippine Chemistry Congress, Tagaytay City.

Dayrit, F.M., Aguilan, J.T., Lebrilla, C. (2006 S 9-13). Structural Analysis of Kappa-Carrageenan by MALDI-Negative-FTMS, 9th EURASIA Conference on the Chemical Sciences, Antalya, Turkey.

Henares, B.M., Dayrit, F.M., Rojas, N.R.L. (2006 O 12-15). Isolation and Purification of Iotacarrageenase Enzyme from *Pseudoalteromonas Carrageenovora* IFO 12985 (Protobacterium), 6th Asia-Pacific Conference on Algal Biotechnology, Dusit Hotel Nikko, Makati.

Dayrit, F.M. (2005 Mr 11). Quality Assurance in Herbal Medicines: Isolation of Marker Compounds, Regional Workshop on Good Manufacturing Practice for Herbal Medicines, Bureau of Food and Drug.

Dayrit, F.M., Gatlabayan, L. (2005 J 1). Participatory Mechanisms on Biosafety Under the Cartagena Protocol: A Case Study on the Philippines, Convention of the Parties/Meeting of the Parties 2 (COP/MOP2) on the Cartagena Protocol, United Nations, Environmental Program, Montreal, Canada.

Dayrit, F.M., Gatlabayan, L.G. (2005 Ap 4-6). Participatory Mechanisms on Biosafety under the Cartagena Protocol, Case Study on the Philippines, Regional Workshop on Participatory Mechanisms Sponsored by the World Resources Institute, Tagaytay Vista Hotel, Tagaytay City.

Tapales, J.B., Dayrit, F.M. (2005 Ap 11-13). Profiling of RBD Coconut Oil and Virgin Coconut Oil through Solid Phase Microextraction (SPME) and Gas Chromatography/Mass Spectrometry (GC-MS), 20th Philippine Chemistry Congress, Baguio Country Club, Baguio City.

Aguilan, J.T., Dayrit, F.M., An, H., Dodds, E.D., Ninonuevo, M.R., Barbeyron, T., Henares, B.M., Lebrilla, C.B. (2005 Ap 11-13). Isolation, Purification and Identification of X-Carrageenan from *Pseudoalteromonas Carrageenovora* NITE-BRC (IFO) 12985 by Peptide Mass Mapping, 20th Philippine Chemistry Congress, Baguio Country Club, Baguio City.

Veloro, A., Dayrit, F.M. (2005 Ap 11-13). Profiling of Proteins from Coconut Water and Meat, and Screening for Proteases and Glycosyl Hydrolase, 20th Philippine Chemistry Congress, Baguio Country Club, Baguio City.

Dayrit, F.M., Gatlabayan, L.G. (2004 S 9). Biosafety and the GMO Debate, 53rd Annual Convention of the Philippine Association for the Advancement of Science (PhilaAS), Cebu Midtown Hotel, Cebu.

Espanola, F., Pama, M., Dayrit, F.M. (2004 My 24-26). A Phytochemical Study of "Kayos" (*Dioscorea hispida*, Dennst.), 19th Philippine Chemistry Congress, Iloilo City.

Aguilan, J.T., Henares, B.M., Dayrit, F.M. (2004 My 24-26). Isolation and Purification of K-

Carrageenase Enzyme from *Pseudoalteromonas Carrageenovora*, 19th Philippine Chemistry Congress, Iloilo City.

Danan, L.M., Salvan, C., Cayme, J.M., Ganancial, R., Dayrit, F.M. (2004 My 24-26). Microextraction of Polychlorinated Biphenyls (PCBs) from Soil Samples, 19th Philippine Chemistry Congress, Iloilo City.

Noel, M.G., Dayrit, F.M. (2004 My 24-26). Triterpenes in Callus Cultures of *Vilex Negundo* L., 19th Philippine Chemistry Congress, Iloilo City.

Chainani, E., de Jesus, J., Dayrit, F.M. (2004 My 24-26). The Application of Nuclear Magnetic Resonance Spectroscopy in the Quantitative Analysis of Polymer Blends, 19th Philippine Chemistry Congress, Iloilo City.

Dayrit, F.M., Dumlao, M. (2004 My 24-26). Profiling of Drug Impurities as a Forensic Tool, 19th Philippine Chemistry Congress, Iloilo City.

Tan, M.A., Dayrit, F.M. (2004 D 1). Antioxidant Potential of Herbal Medicines using the FRAP Assay, 9th Annual Symposium of the Natural Products Society of the Philippines, ISMED, UP Diliman, Q.C..

Dayrit, F.M. (2004 D 1). Natural Products and the GMO Debate, 9th Annual-Symposium of the Natural Products Society of the Philippines, ISMED, UP Diliman, Quezon City.

Aguilan, J.T., Dayrit, F.M. (2003 S 10). Structural Analysis of Carrageenan from Philippine *Eucheuma* Species, 4th Mindanao Seaweed Conference, Zamboanga City.

Unson, J.R.S., Dancel, M.C.A., Dayrit, F.M. (2003 O 21-24). Quantitation of Anionic Surfactants by Negative Mode Flow Injection Electrospray Mass Spectrometry, 8th Eurasia Conference on Chemical Sciences, Hanoi, Vietnam, Oct 21-24, 2003..

Dayrit, F.M., Lao, J., Fernandez, M., Perez, J., Chainani, E. (2003 N 27-28). Identification of the Major Organic Emissions from a 2-Stroke Motorcycle Engine, Poisons in Our Environment," sponsored by the Philippine Society of Clinical and Occupational Toxicology 4th Annual Convention, Manila Pavilion Hotel.

Dayrit, F.M., Ninonuevo, M.R. (2003 JI 12). Development of an Analytical Method for 3-Monochloropropane-1,2-diol in Soy Sauce Using 4-Heptanone as Derivatizing Agentt, Annual Conference of the Philippine-American Academy of Science and Engineering (PHASE) Manila Hotel.

Aguilan, J.T., Dayrit, F.M. (2003 JI 12). Structural Analysis of Carrageenan from Farmed Varieties of Philippine Seaweed, Annual Conference of the Philippine-American Academy of Science and Engineering (PARSE) Manila Hotel.

Danan, L.A., Dayrit, F.M. (2003 JI 12). Development of Analysis of PCBs and OCP by Solid Phase Microextraction, Annual,. Conference of the Philippine-American Academy of Science and Engineering (PARSE) Manila Hotel,.

Dayrit, F.M. (2003 Je 2-4). Reflections on the Role of Science in Environmental Policy, Conference on Perspectives in International Environmental Policy, Pazmany Peter University, Budapest, Hungary.

Dancel, M.C.A., Unson, J.R.S., Dayrit, F.M. (2003 Je). Quantitation of Anionic Surfactants by Flow-Injection Electrospray Mass Spectrometry (FIA-ESI-MS), Annual Conference of the American Society for Mass Spectrometry.

Dayrit, F.M. (2003 Ja 19). Vision 2020: The Environment and Sustainable Development, Harvard Project for Asian and International Relations (HPAIR) Symposium, Escaler Hall, Ateneo de Manila University.

Dayrit, F.M., Enriquez, E.P. (2003 Ap 24). Developing a Nanotechnology Roadmap for the Philippine, Philippine Council for Advanced Science and Technology Research and Development, Department of Science and Technology, Xavier University, Cagayan de Oro City.

Villa, D., Espiritu, E.Q., Vicente, C., Dayrit, F.M. (2002 S 4-6). Proposed Policy Framework for Water Management, 11th International Conference, Philippine Waterworks Association, (PHILWATER 2002), Iloilo City.

Aguilan, J.T., Dayrit, F.M. (2002 S 3-4). Molecular Approaches: An Essential Tool in Carrageenan R&D, 3rd National Seaweed Convention, Cebu City, (organized by the Seaweed Industry Association of the Philippines, SIAP).

Dayrit, F.M. (2002 O). Quality Assurance in the Herbal Medicines, Herbal Medicine Symposium, CITEM.

Dayrit, F.M. (2002 My 2). The Dioxin Challenge, Annual Convention of the Pollution Control Association of the Philippines (PCAPI), Subic Freeport.

Dayrit, F.M. (2002 D 5). Quantitative Natural Products Chemistry: A Bridge Between Academe and Industry, 7th Annual Conference of the Natural Products Society of the Philippines, United Laboratories.

Dayrit, F.M. (2002 Ap 22-26). Science & Technology and the Challenge of Sustainable Development in the 21st Century, Symposium on Science and Religion, East Asian Pastoral Institute, Ateneo de Manila University.

Dancel, M.C.A., Ramos, G.D., Dayrit, F.M. (1998). Determination of Acid Extractable Phenols and Organochlorine Pesticides in Laguna Lake by Gas Chromatography Mass Spectrometry, 14th Philippine Chemistry Congress.

Dayrit, F.M., Dancel, M.C.A. (1998). Analysis of Coconut Oil Triglycerides by Mass Spectrometry, 14th Philippine Chemistry Congress.

Dy, J., Dayrit, F.M. (1998). Structure Property Relationship of Vinyl Acetate Butyl Acrylate Copolymers, 14th Philippine Chemistry Congress.

Feliciano, M.S.C., Pangilinan, S.L., Dayrit, F.M. (1997). Bacterial Degradation of Chlorinated Volatile Organic C(VOCS) and Persistent Organic Pollutants (POPS), 13th Philippine Chemistry Congress.

Feliciano, S.C., Aguilan, J.T., Chainani, E.T., Enriquez, E.P., Dayrit, F.M. (1997). Kinetics of an Esterification Reaction by Real Time NMR Spectroscopy, 13th Philippine Chemistry Congress.

Racquel, J., Unson, S., Dayrit, F.M., Abasolo, A.C.J. (1997). Water Quality Assessment of Manila Bay Using Physico-Chemical Parameters, 13th Philippine Chemistry Congress.

Feliciano, M.S.C., Pangilinan, S.L., Dayrit, F.M. (1987). Bacterial Degradation of Chlorinated Volatile Organic Compounds (VOCS) and Persistent Organic Pollutants (POPS), 13th Philippine Chemistry Congress.

Dayrit, F.M., Application of Qualitative and Quantitative Thin Layer Chromatography in Herbal Medicine Products, .

Publications

2008 Dayrit, F.M., Buenafe, O.E.M., Chaindrii, E.T., de Vera, I.M.S. Analysis of monoglycerides, diglycerides, sterols and free fatty acids in coconut (*Cocos nucifera* L.) oil by ³¹P NMR spectroscopy. *Journal of Agricultural Food Chemistry*, 2008,

56(14):5765-5769.

- 2007 Dayrit, F.M., Buenafe, O.E.M., Chainani, E.T., de Vera, I.M.S., Dimzon, I.K.D., Gonzales, E.G., Santos, J.E.R. Standards for Essential Composition and Quality Factors of Commercial Virgin Coconut Oil and its Differentiation from RBD Coconut Oil and Copra Oil. *Philippine Journal of Science*, 2007 D, 136(22):21-1131.
- Dayrit, F.M., Buenafe, O.E.M., Chainani, E.T., de Vera, I.M.S., Dimzon, I.K.D., Gonzales, E.G., Santos, J.E.R. Essential Quality Parameters of Commercial Virgin: Coconut Oil. *CORD*, 2007, 23(1).
- Dayrit, F.M. A Brief History of the Philippine Coconut Industry as Reflected in the PJS, 1906 to 2005. *Philippine Journal of Science Special Centennial Edition*, 2007, A:231-240.
- 20062 Culaba, A., Dayrit, F.M., Pernia, E.M., Caesar Saloma, C. Science and Technology in Economic Development. *The Philippine STAR*, Star Science, 2006 Mr 2.
- 2006 Aguilan, J.T., Zhang, J., Dayrit, F.M., Nirionuevo, M.R., Lebrilla, C.B. Structural Analysis of K-Carrageenan Sulfated Oligosaccharides by Positive Mode Nano-ESI-FTICR-MS and MS/MS by SORICID. *Journal of American Society of Mass Spectrometry*, 2006, 17:96-103.
- 2005 Noel, M.G., Dayrit, F.M. Triterpenes in the Callus Culture of *Vitex negundo* L.. *Philippine Journal of Science*, 2005 Je, 134(1):5-19.
- Dayrit, F.M., Gatlabayan, L. Participatory Mechanisms on Biosafety under the Cartagena Protocol: A Case Study on the Philippines. *World Resources Institute*, Washington D.C., 2005.
- 2004 Danan, L.M.A., Ninorinuevo, M.R., Dayrit, F.M., Rojas, N.R.L. Molecular weight determination of lysozyme using electrospray ionization mass spectrometry (ESI-MS). *Loyola Schools Review*, Ateneo de Manila University, 2004, 3:81-95.
- Dayrit, F.M., Fernandez, M.D., Lao, J.L., Perez, J.M., Chainani, E.T. Identification of the Major Organic Emissions from a Two Stroke Motorcycle Engine. *Loyola Schools Review*, Ateneo de Manila University, 2004, 3:3-18.
- Dayrit, F.M., Dumlao, M.C. Impurity profiling of methamphetamine hydrochloride drugs seized in the Philippines. *Forensic Science International*, 2004, 144:29-36.
- 2003 J. T. Aguilan, J. E. Broom, J. A. Hemmingson, F. M. Dayrit, M. N. E. Montana, M. C. A. Dancel, M. R. Ninonuevo, and R. H. Furneux, Structural Analysis of Carrageenan from Farmed Varieties of Philippine Seaweed. *Botanica Marina*, 2003, 46:179-92.
- Aguilan, J.T., Broom, J.E., Hemmingson, J.A., Dayrit, F.M., Montana, M.N.E., Dancel, C.A., Ninonuevo, M.R., Furneux, R.X. Structural Analysis of Carrageenan from Farmed Varieties of Philippine Seaweed. *Botanica Marina*, 2003, 46:179-92.
- 2002 Ofk, D.C., Dancel, M.C., Moscoso, E.R., Jimenez, R.R., Dayrit, F.M. Accumulation of lignin residues in organic matter fractions of lowland rice soils: A pyrolysis-GC-MS study. *Soil Science*, 2002, 167:590-606.
- 2001 Chainani, E.T., Dayrit, F.M., Sison, L.G. Application of Linear Prediction and Rapid Acquisition to Nuclear Magnetic Resonance. *Kimika*, 2001 D, 17(2):57-63.
- 2000 Teotico, D.G., Dancel, M.C.A., Dayrit, F.M. The Analysis of Volatile Organic Compounds from Fresh and Dried Leaves of *Vitex negundo* by Thermal Desorption- Gas Chromatography. *Kimika*, 2000 D, 16(2):59-63.
- 1999 Dayrit, F.M., Espiritu, E.Q., Gonzalez, N., Rojas, N., Aguilan, J.T., Antonio M. Basilio,

- A.M., Chainani, E.T., Cruz, E., Matanguihan, B. Development of ³¹P Nuclear Magnetic Resonance Methods for the Study of Phosphate Metabolism in *E. coli* and *B. subtilis*. *Kimika*, 1999 Je, 15(1):915.
- 1998 Dancel, M.C.A., Ramos, G.D., Dayrit, F.M. Determination of Acid-Extractable Phenols and Organochlorine Pesticides in Laguna Lake by Gas Chromatography-Mass Spectrometry. *Kimika*, 1998, 14(2):6774.
- 1995 Dayrit, F.M., et al. Anti pest compounds from the volatile oil of *Vite*. *The Philippine Journal of Science*, 1995, 124(1):15-22.
- Dayrit, F.M., Trono, M.C.M., Morallo-Rejesus, B., Maini, H. Anti-pest Constituents in the Volatile Oil of *Vitex negundo* Linn. *Philippine Journal of Science*, 1995, 124(1):15-27.
- 1994 Fabian M. Dayrit, Armando Guidote, Maximino L. Generalad, Constanter Serna Determination of the Quinine Content in the Bark of the Cinchona Tree Grown in Mt. Kitanglad, Bukidnon. *Philippine Journal of Science*, 1994, 123(3):215-227.
- Dayrit, F.M., Lagurin, L.G. Identification of Four Iridoids in the Pharmacologically-Active Fraction of *Vitex negundo*, L. *Philippine Journal of Science*, 1994, 123(4):293-304.
- 1993 Chikage Murakami, Keiko Myoga, Ryoji Kasai, Kazuhiro Ohtani, Tomonori Kurokawa, Sadahiko Ishibashi, Fabian Dam, William G. Padolina, Kazuo Yamasaki Screening of Plant Constituents for Effect on Glucose Transport Activity in Ehrlich Ascites Tumor Cells. *Chemical . Pharrn. Bulletin*, 1993, 41:2129-31.
- Morallo-Rejesus, B., Maini, H.A., Ocampo, V.R., Dayrit, F.M., Quintana, E.G. Insecticidal action of several Philippine plants with emphasis on *Vitex negundo*. *The Philippine Agriculturist*, 1993, 76(4):355-371.
- 1992 Chio, J.T., Dayrit, F.M., Ocampo, P., Ocampo, V. A study on the environmental impact of detergents, III: Toxicity of alkylbenzene sulfonates and coconut fatty alcohol sulfates towards fish and rat. *Philippine Journal of Science (special issue)*, 1992 D.
- Chio, T., Kua, E.T., Dayrit, F.M. A study on the environmental impact of detergents, II: Environmental degradation of alkylbenzene sulfonates and coconut fatty alcohol sulfates. *Philippine Journal of Science (special issue)*, 1992 D.
- Chio, T., Kua, E.T., Dayrit, F.M. JA study on the environmental impact of detergents, I: Detergent levels in Laguna de Bay and Davao River . *Philippine Journal of Science (special issue)*, 1992 D.
- 1991 Dayrit, F.M. Plant secondary metabolites by tissue culture. *Kimika*, 1991.
- 1990 Dayrit, F.M., Alcantar, A.D., Villaseñor, I.M. Studies on *Moringa Oleifera* seeds, the antibiotic compound and its deactivation in aqueous solutions.. *Philippine Journal of Science*, 1990, 119(1):23-32.
- Villaseñor, I.M., Dayrit, F.M., Lim Sylianco, C.Y. Studies on *Moringa Oleifera* seeds, thermal degradation of roasted seeds.. *Philippine Journal of Science*, 1990, 119(1):33-39.
- Yamauchi, T., Abe, F., Padolina, W.G., Dayrit, F.M. Alkaloids from Leaves and Bark of *A/stoma scho/axis* in the Philippines. *Phytochemistry*, 1990, 29:3321-3325.
- Amelia P. Guevara, Clara Lim-Sylianco, Fabian Dayrit, and Paul Finch, Antimutagens from *Momordica charantia*. *Mutation Research*, 1990, 230,:121-126.
- Villaseñor, I.M., Dayrit, F.M., Lim-Sylianco, C.Y. Studies on *Moringa oleifera* seeds, II: Thermal degradation of roasted seeds. *Philippine Journal of Science*, 1990, 9:33.

- Dayrit, F.M., Alcantar, A.D., Villaseñor, I.M. Studies on *Moringa oleifera* seeds, Part I. The antibiotic compound and its deactivation in aqueous solution. *Philippine Journal of Science*, 1990, 9:23.
- 1989 Villaseñor, I.M., Finch, P., Lim-Sylianco, C.Y., Dayrit, F.M. Structure of a mutagen from roasted seeds of *Moringa oleifera*. *Carcinogenesis*, 1989, 10:1085.
- Villaseñor, I.M., Lim-Sylianco, C.Y., Dayrit, F. Mutagens from roasted seeds of *Moringa oleifera*. *Mutagen Research*, 1989, 224:209-212.
- Amelia P. Guevara, Clara Y. Lim-Sylianco, Fabian M. Dayrit and Paul Finch Acylglucosyl Sterols from *Momordica charantia*. *Phytochemistry*, 1989, 28:1721-1724.
- Simpol, L., Dayrit, F.M., Abe, M., Yamauchi, T. Isolation of Maslinic Acid from the Leaves of *Bixa orellana*. *Philippine Journal of Science*, 1989:147.
- 1988 Dayrit, F., Cagampang, J., Lagurin, L., Lapid, R. Phytochemistry of *Vitex*, investigation into the bronchial relaxing constituents.. *Philippine Journal of Science*, 1988.
- 1987 Brown, J.M., Dayrit, F.M., Sinou, D. Chiral ligands for organometallic catalysis containing two dioxolane rings doctoral work at Oxford University done in collaboration with Universite Lyon, France. *Journal of Chemical Society, Perkin Transactions*, 1987, 2:91-95.
- 1983 Brown, J.M., Dayrit, F.M., Lightowler, D. Interconversion of cis and trans- dihydrides derived from chelate biphosphine iridium cations. *Journal of Chemical Society, Chemical Communication*, 1983:414 - 415.
- 1981 Dayrit, F.M., Schwartz, J. Electron Transfer in Nickel-Catalyzed Addition Reactions of Organozirconium Compounds to Unsaturated Ketoses. *Journal of American Chemical Society*, 1981, 103:4466-4473.
- 1980 Schwartz, J., Carr, D.B., Hansen, R.T., Dayrit, F.M. Nickel-Catalyzed Conjugate Addition of Alkynyl Groups to α,β -Unsaturated Ketoses). *Journal of Organic Chemistry*, 1980, 45:3058-3061.
- Dayrit, F.M., Gladkowski, D.E., Schwartz, J. Electron Transfer in Nickel-Catalyzed Addition Reactions. *American Chemical Society*, 1980, 102:3976-3978.
- Dayrit, F.M., Pasuelo, M.J. Development of Quality Assurance Methods for Medicinal Plants Using Gas Chromatography Analysis. *Kimika*, , 17(1):5-11.

Name **Leonora G. Dominguez**

Organizational Affiliations

Supervising Science Research Specialist, ITDI-DOST, Bicutan, Taguig City

Education

B.S. in Chemical Engineering, Manuel L. Quezon University, Manila 1972

Fields of Specialization

Inorganic Chemistry

Employment

Supervising Science Research Specialist , Industrial Technology Development Institute (ITDI) , 1996-present-

Senior Science Research Specialist, Industrial Technology Development Institute (ITDI) , 1990-1996-

Science Research Specialist II, ITDI , 1984-1990-

Science Research Specialist I , National Institute of Science & Tech.(NIST) , 1976-1984-

Science Research Assistant, National Institute of Science and Technology (NIST) , 1975-1976-

Technician III, NIST , 1973-1975-

Association Membership

Honorary Member ITDI Chapter, PICHE

Associate Member, NRCP, Division X - Chemical Sciences

Member, PHILJAFSA

Member, Board of Directors, AFWWA(Association of Filipino Women WIPO Awardees)

Honors / Awards

2nd Prize as Presentor of Processing of Rice Husk into Sodium Silicate and Silica Gel, 1997

Best Scientific Poster Award, Production of Controlled Release Fertilizer, 26th NAST Scientific Meeting 2004 JI 14-15

3rd Place : National Research Paper Award in Agriculture and Natural Resources, - 2003 N 10

1st Prize Likha Award for Outstanding Creative Research, 2003 National Invention Contest 2003 N 29

2nd Prize, Presentor on Processing of Rice Husk into Sodium Silicate and Silica Gel, - 1997

Gold Medal Award for Production of Slow Release Fertilizer, WIPO Tuklas Award 1994 JI 16

G. Y. Zara Award for Improved Solar Salt Production, - 1990

Trainings

Internal Quality Audit, Department of Science and Technology 2009 Ja 7-9

Documenting the QMS Based on ISO 9001-2000, Department of Science and Technology 2008 S

Salt production and Salt Iodization Training for Salt Producers - Training of Trainors, Sikatuna Hotel, Occidental Mindoro 2006 My 16-20

Corporate Culture: Filipino Values in the Workplace , Department of Trade and Industry 2005 O 10

Supervisory Effectiveness for Improved Quality and Productivity , Department of Trade and Industry 2004 Je 21-24

Documenting the Quality management System, MIRDC, DOST 2002 O 9-10

Developing and Implementing A Laboratory Quality management System Based on ISO/IEC 17025 , Metals Industry Research and Development Center (MIRDC), DOST 2002 O 15-17

Program on Industry and Environmental Protection, NEDO, Japan 1999 N17-D

Individual Training Course in Microencapsulation Technology , JICA, Japan 1998 Mr 3-Je 6

Research on Afforestation with Functional soil Improving Materials, JICA, Japan 1993 O 12-N 25

Counterpart training on Microencapsulation Technology , JICA, Japan 1991 JI 3-S 29

Training on Activated Carbon Industry, JICA, Japan 1984 JI 24-D 24

Researches

Completed

Production of precipitated CaCo₃ from calcium sludge

Processing technology for industrial salt production

Production of charcoal briquettes from sawdust

Sodium silicate preparation from rice husk

Production of amorphous silica from rice husk

Studies on the production of potassium silicate fertilizer using Internal heat-type fluidized bed reactor

Production of slow release fertilizer using rice husk and dolomitic limestone

Preparation of functional microcapsules

Production and efficacy test of controlled release fertilizers for the Lahar-affected areas and coarse textured soils

Preparation of coconut specific fertilizer using coir dust

Utilization of textile waste into activated carbon fabric

Production of controlled release fertilizer

Preparation of activated carbon from Pili shell

Establishment of salt production facility by Fractional Crystallization Method
Production of ammonium chloride (NH₄Cl) from calcium sludge
Feasibility studies on the establishment of powdered activated carbon in the Philippines
Preparation of CaCO₃·0.5 H₂O using calcium sludge
Preparation of Silica chemicals from rice husk
Preparation of functional microcapsules
Production of activated carbon from rice husk
Evaluation of some pyrotechnic products of Bulacan for standardization
Studies on salt refining and salt iodization technology

Completed

Laboratory studies on the recovery of magnesium sulfate from bitterns
Bench-scale studies on the recovery of magnesium sulfate from bitterns
Improvement of the Paranaque-type solar salt making technology

Completed

Recovery of potassium chloride from bitterns
Studies on the production of USP grade salt

On-going

Preparation of orthopedic plaster bandage from Ca sludge
Production and efficacy test of CRF (coated fertilizer)
Scale-up production of super AC from rice husk

Papers Presented

- Dominguez, L.G. (2006 Je 29). Salt Production by Fractional Crystallization , ITDI Simultaneous Fora and Techno-Clinic, Bicutan, Tagig, Metro Manila .
- Dominguez, L.G. (2001 N 21). Industrial Process for the Production of Slow Release Potassium Silicate Fertilizer using the Internal Heat Type fluidized Bed Reactor , ITDI-DOST, Bicutan, Taguig, Metro Manila.
- Dominguez, L.G. (2001 My 1-4). Production of Slow Release Fertilizer , Workshop on Utilization of Rice By-Products in Pharmaceutical and Chemical Sector, Rasht, Iran.
- Dominguez, L.G. (2001 My 1-4). Processing of Rice Husk into Sodium Silicate , Workshop on utilization of Rice By-Products in Pharmaceutical and Chemical Sector, Rasht, Iran.
- Dominguez, L. G. (2001 My 1-4). Production of Slow Release Fertilizer, Workshop on utilization of Rice By-Products in Pharmaceutical and Chemical Sector, Rasht, Iran.
- Dominguez, L.G. (2001 My 1-4). Processing of Rice Husk into Sodium silicate, Workshop on utilization of Rice By-Products in Pharmaceutical and Chemical Sector, Rasht, Iran.
- Dominguez, L. G. (1998 D 3). Solar Salt Production, 1st Philippine Ocean Summit, AMOSUP, Intramuros, Manila.
- Dominguez, L.G. (1996 S 12). Field Evaluation of K-silicate Slow Release Fertilizer Grown on Loam Oil and Corn, Tomato, Gabi, and Onion Grown on Sandy Loam Soil at Isabela

Province, Agri-Industrial Chemicals R&D, New World Hotel, ITDI-JICA.

Dominguez, L.G. (1996 S 12). Production of Slow-release Type Potassium Silicate Fertilizer, Seminar on Agri-industrial Chemicals R&D, , New World Hotel, Makati City.

Dominguez, L.G. et al (). Production of Functional Microcapsules, Proceedings on Technology for Improvement of Pinatubo Ejecta.

Dominguez, L. G. (). Processing of Rice Husk into Sodium Silicate and Silica Gel, ITDI 96th Foundation Day.

Publications

- 2003 Dominguez, L.G. Production of functional microcapsule. Proceedings on Technologies for Improvement of Pinatubo Affected Areas, 2003.
- Dominguez, L.G. Silicate chemicals from rice husk.. Proceedings on 1st International Workshop on Utilization of Rice By-Products in the Chemical and Pharmaceutical sectors, 2003.
- 1994 Yamada, K., Dominguez, L.G., et al Studies on the production of potassium silicate fertilizer using Internal heat-type fluidized bed reactor. Philippine Journal of Science, 1994 O-D, 123.
- Dominguez, L.G., et al Industrial process studies for the production of potassium silicate fertilizer using Internal heat-type fluidized bed reactor. Philippine Technology Journal, 1994 Ja-Mr, 19.
- 1982 Dominguez, L.G., Alfonso, C. F., Gelera, L.P., Cocjin, P.A. Study on the recovery of magnesium sulfate ($MgSO_4 \cdot 7H_2O$) from bitterns . Philippine Journal of Science, 1982, 3.
- 1981 Dominguez , L. G., Pigao, C.P., Alfonso, C. F., Gelera, L.P. Bench-Scale Study on the Recovery of Magnesium Sulfate ($MgSO_4 \cdot 7H_2O$) from Bitterns. Philippine Journal of Science, 1981, 110.
- Yokota, Y., Dominguez, L.G., et al Preparation and performance of slow release microcapsules containing nutrient by complex emulsion method. Philippine Journal of Science, , 123(2).

Name **Rodolfo F., M.D., Ph.D. Florentino**

Organizational Affiliations

Former Director, Food and Nutrition Research Institute, Pedro Gil St., Ermita, Manila

Education

Doctor of Philosophy, Vanderbilt University, Nashville, Tenn., USA 1972

M.S. in Biochemistry, Vanderbilt University, Nashville, Tenn., USA 1962

Doctor of Medicine, University of Sto. Tomas, Manila 1956

Fields of Specialization

Biological Sciences

Nutrition

Nutrition Research, Nutritional Anthropometry and Biochemistry

Nutritional Assessment and Surveillance

Nutrition Policy, planning and management

Employment

Deputy Executive Director, Nutrition Center of the Philippines, 1974-1983-

Guest Lecturer, University of Queensland, Brisbane Australia, 1982-

Association Membership

Member/Executive Trustees, Nutrition Foundation of the Philippines

Member/Past Chairman, National Research Council of the Philippines

Member, Board of Directors/President/Vice President, Philippine Association of Nutrition

Life Member, Philippine Association of Marine Science

Honorary Member, Nutritionist-Dietitians Association of the Philippines

Fellow, Philippine Society of Endocrinology & Metabolism

Member, Philippine Medical Association

Member, Board of DirectorsMember/Secretary, Radioisotope Society of the Philippines

Fellow, Philippine Association for the Advancement of Science (PHILAAS)

Life Member, UST Medical Alumni Association

Honors / Awards

Outstanding Individual Council of Health Agencies of the Philippines, 2006

Health Provider, 2006

Thomas Award for Outstanding Faculty of Medicine and Surgery, Thomasian in Research University of Santo Tomas 2006

3rd Prize Winner for FNRI-DOST Poster Presentation (R & D), 2006

3rd Prize Winner for FNRI-DOST Poster Presentation (S & T), 2006

Conferred Scientist 4, Scientific Career System 1984

Trainings

2nd ASEAN S & T Week, Manila 1998 Ja

Workshop on Commercialization of Agriculture and Food Security, Antigua, Guatemala
1989 Mr

29th Meeting ASEAN Subcommittee on Protein: Food Habits R&D, Manila 1989 F

Consultative Meeting ASEAN Subcommittee of Protein: Food Habits R & D, Bangkok,
Thailand 1988 O

ASEAN Food Conference' 88, Bangkok, Thailand 1988 O

INACG Workshop, Geneva, Switzerland 1988 N

27th Meeting, ASEAN Subcommittee on Protein Food Habits R &D-, Bandung, Indonesia
1988 F

Pacific Rim Research Project Meeting, Bangkok, Thailand 1988 Ap

Third national Congress on Health Research and Development, Quezon City 1988 Ap

Planning Meeting on Zinc Deficiency and Stunting in Developing Countries, Galveston,
Texas 1988 Ag-S

28th Meeting, ASEAN Subcommittee on Protein Food Habits R &D, Bangkok, Thailand
1988 Ag

Editorial Board Meeting ASEAN Food Journal, Singapore 1987 S

International Food Science and Technology Congress, Singapore 1987 S

5th Asian Congress of Nutrition, Osaka, Japan 1987 O

9th INACG Meeting, Quito, Ecuador 1987 My

Workshop on Food Habits, Kuala Lumpur, Malaysia 1987 Mr

1st Executive Development Seminar on Information Technology, Manila 1987 D

Editorial Board Meeting ASEAN Food Journal, Singapore 1987 Ap

Editorial Board Meeting ASEAN Food Journal, Jakarta, Indonesia 1986 O

Workshop on Food Composition, Jakarta, Indonesia 1986 O

24th Meeting, ASEAN Subcommittee on Protein Food Habits R &D, Jakarta, Indonesia
1986 O

11th International Symposium on Biological Reference Materials, Munich, West Germany
1986 Ap

WHO Programme Advisory Committee, Geneva, Switzerland 1985 My

Study Tour on Technology Transfer in the Food Processing Industry, Rep of Korea 1985
Je

Food Conference '85, Manila 1985 F

ASIAFOODS Interim Executive Committee Meeting, Manila 1985 F

13th International Congress of Nutrition, Brighton, England 1985 Ag

Far East Symposium on Nutrition, Saigon, Vietnam 1962 Mr

5th international Congress of Nutrition, Washington, DC 1960 S

116 items for inputting,

Researches

Completed

The applicability of proposed Asian and WHO cut-off points of anthropometric indices for the assessment of overweight and obesity among Filipino adults

A Study of Nutritional Status of Pregnant Filipino Women in Hawaii

Summary, The 5th Asian Conference on Food Safety and Nutrition

On-going

Whiz kids for health and fitness

Market trial of iron fortified rice in the Philippines

Papers Presented

Florentino, R. (2009 S 5). Shifting the Paradigm: A call to Action against Overweight and Obesity, 15th Annual Convention, Philippine Association for the Study of Overweight and Obesity.

Florentino, R. (2009 O 2-9). School-based Obesity Prevention, 19th International Congress of Nutrition, Bangkok, Thailand.

Florentino, R. (2009 JI 16-17). Busting the Myths about Water and Beverages, 62nd Annual Convention, Philippine Association of Nutrition.

Florentino, R. (2009 F). Synthesis: Towards and R & D Agenda on Nutrigenomics, .

Florentino, R. (2009). Oats for a Healthy Heart, Food and Nutrition Research Institute.

Florentino, F.S. (2006 S). Epidemiology of Obesity in the Philippines, PASOO Annual Convention.

Florentino R.F. (2006 N). Coconut Oil and Cardiovascular Disease in the Philippines, Traditional and Alternative Health Care Convention.

Florentino, R.F. (2006 JI). State of Nutrition of Children in the Philippines, UMed Conference, Manila.

Florentino, R.F. (2006 Ap). BMI, WC, WHR for the Assessment of Obesity, ASian Congress of Dietetics.

Florentino, R.F. (1987). A Survey of Blenderized Diets in Some Hospitals in Metro Manila, Symposium on Enteral Nutrition, STUH, PGH, MMC and CGH.

Florentino, R.F. (1986 My). Anemia in Pregnancy, Echo Seminar of International Association of Maternal and Neonatal Health, Manila.

Florentino, R.F. (1986 My). An Assessment of Health and Nutrition Statistics in he Philippines, Policy Seminar, NNC/UNICEF.

Florentino, R.F. (1986 JI). FNRI Researches: Their implications in Policy and Program Formulation, FNRI/NNC Seminar Workshop, Makati, Metro Manila.

Florentino, R.F. (1986 Ap). The Need for Food Reference Materials in Asia, 11th

International Symposium on Biological Reference Materials, Munich, Germany.

Florentino, R.F. (1986 Ap). Development of Food and Nutrition Research in the Philippines, 1st ASEAN Science and Technology Week, Kuala Lumpur, Malaysia.

Florentino, R.F. (1986 Ap). Food Habits: P A Factor for Development in the ASEAN Region, First ASEAN Science and Technology Week, Kuala Lumpur, Malaysia.

Publications

- 2009 Florentino, R. Diet Nutrition and Immunity. Asia Pacific Journal of Clinical Nutrition, 2009.
- Florentino, R. Food and Nutrition Safety. 5th Asian Conference, 2009.
- Florentino, R.F Recommended Dietary Allowances: Regulatory Perspectives. Nutrition Reviews, 2009, 56(4):40-44.
- 2008 I. Angeles-Agdeppa, M. V. Capanzana, C. V. C. Barba, R. F. Florentino, K. Takanashi Efficacy of Iron-Fortified Rice in Reducing Anemia Among Schoolchildren in the Philippines. International Journal for Vitamin and Nutrition Research, 2008, 078(02):0074-0086.
- 2005 Florentino, R.F. Executive Summary: Asian Workshop on Iron Fortification of Foods.. Asia Pacific Journal of Clinical Nutrition, 2005, 14.
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- 2002 Florentino, R.F The Burden of Obesity in Asia : Challenges in assessment, prevention and management. Asia Pacific Journal of Clinical Nutrition, 2002, 11(s8):S676-S680.
- 1999 Rodolfo Florentino, E-Siong Tee, Bee-Koon Poh Report a Seminar and workshop on Food-based Dietary Guidelines and Nutrition Education: Bridging Science and Communication. Asia Pacific Journal of Clinical Nutrition, 1999, 8(4):291-299.
- 1998 Florentino, R.F., Mondala, A.U. Streetfoods and junkfoods: facts and fallacies. Philippine Journal of Nutrition, 1998, 45(1-4):19-30.
- 1992 Rodolfo F. Florentino, Regina A. Pedro Nutrition and socio-economic development in Southeast Asia. Proceedings of the Nutrition Society, 1992, 51(1).
- 1987 Florentino, R., Jose, A. FNRI Researches: Their implication in policy and program implementation. Philippine Journal of Nutrition, 1987, 39(1 & 2).
- Florentino, R. et al. Need for food reference materials in Asia. Fresenius Z. Aha. Chem., 1987, 326.
- Florentino, R. et al. New urban food demand supply and population in the Philippines. FNRI Monograph No.3, 1987.
- Florentino, R. Nutrition research gaps addressed to medical schools. Journal of Philippine Medical Association, 1987, 63.

- Florentino, R. Propose height and weight standards for Filipino children, 0-19 years. FNRI Publication, Manila, 1987.
- 1986 Florentino, R. et al. 1986 Situational analysis of children in the Philippines, Food and Nutrition.. Monograph Series No. 2, 1986.
- Florentino, R. Knowledge, attitudes and practices in nutrient provision among housewives in Metro Manila. Philippine Journal of Nutrition, 1986, 39:159-170.
- 1985 Florentino, R.F. Fortification of MSG with vitamin A: The Philippine experience. Journal of Food Technology, 1985 N:71-77.
- Florentino, R. et al. Fish consumption patterns in the Philippines. ASEAN Food Journal, 1985, 1(2).
- Florentino, R.F. The Bulacan Health and Nutrition Study : Part 3: Food, immunization, sanitation and education as interventions to improve the growth of infants. Ecology of Food and Nutrition, 1985, 17(65).
- Florentino, R.F. The Bulacan Health and Nutrition Study: Part 1. Baseline socioeconomic and related characteristics of subject families and their infant. Ecology of Food and Nutrition, 1985, 16:299.
- Florentino, R.F. The Second National Nutrition Survey: Part B. Anthropometry, anemia and clinical survey. Philippine Journal of Nutrition, 1985, 38(2):51-62.
- Florentino, R.F. Nutritional patterns and adjustments to economic deviation of 1983-1984 among selected households in Metro Manila. Philippine Journal of Nutrition, 1985:51-62.
- 1984 Valdecañas, O.C., Florentino, R.F., Pedro, R.A., Vicente, L.M., Maninang, S.S. Nutritional Patterns and Adjustment to the Economic Deviation of 1983-1984 among Selected Households in Metro Manila. Series 1. Manila: FNRI Monograph, 1984.

Name **Romeo D. Fortes**

Organizational Affiliations

Aquaculture Consultant, (SEAFDEC-AQD) Institute of Aquaculture, College of Fisheries, University of the Philippines -Visayas, Iloilo, Philippines

Education

Ph.D. Fisheries Management, Auburn University, USA 1979

M.S. Fisheries Management, Auburn University, U.S.A 1973

B.S. Inland Fisheries/Aquaculture, University of the Philippines Los Baños, College, Laguna 1968

Fields of Specialization

Fisheries Management

Aquaculture Management

Inland Fisheries

Employment

National Team Leader, Aquaculture Research Commodity, 1987 D-J-

Local Consultant, World Bank-Technical Assistance in Fisheries,, 1986 S - 1990 D-

Member, Technical Board, Negros Aquaculture-Agriculture Development Institute, 1992-1994-

Chairman, Water Resources Development and Management Study Group, NEDA, Region 6, 1992-1996-

Member, PCARRD National Commodity Team on Mangroves, 1990-1992-

Resource Person, U.P. Center for Integrative & Development Studies(UP-CIDS), Education Research Program, 2003 N-2004 D-

Professor XII (Aquaculture), Institute of Aquaculture, College of Fisheries, University of the Philippines in the Visayas, -

Assistant Professor, Institute of Aquaculture, College of Fisheries, University of the Philippines in the Visayas, 1977-

Associate Professor, Institute of Aquaculture, College of Fisheries, University of the Philippines in the Visayas, 1981-

Full Professor, Institute of Aquaculture, College of Fisheries, University of the Philippines in the Visayas, 1985-

Dean, College of Fisheries & Ocean Sciences, U.P. in the Visayas, Miagao, Iloilo City, 2001 O-2007 S 30-

Coordinator, UPV-Kagoshima University Core Univ. Program in Fisheries Science, DOST JSPS Scientific Coop. Prog., 2001-2007-

Vice Chancellor for Planning and Development, U.P. in the Visayas, Miagao, Iloilo City, 1994 F-1996 O-

Assistant to the Chancellor for Planning & Development, U.P. in the Visayas, Miagao, Iloilo City, 1993 S-1994 Ja-

Director, Institute of Fisheries Policy & Development Studies, UP Visayas College of Fisheries, 1992 D-1995 Ap-

Director, Aquaculture and Inland Fisheries Division, PCAMRD-DOST, UPLB (on secondment), 1988-1990-

Director, Brackishwater Aquaculture Center, U.P. in the Visayas, Leganes, Iloilo, Philippines, 1983-1987-

Associate Dean, College of Fisheries, University of the Philippines, Iloilo City, 1982-1983-

Special Assistant to the Dean for Research & Extension, University of the Philippines in the Visayas, 1992 Je-1994 My-

Visiting Scientist, SEAFDEC-Aquaculture Department, Binangonan, Rizal, Philippines (On Sabbatical Leave), 1987-1988-

Cooperating Scientist, U.S.-Israel Cooperative Development Research Program (U.S.A.I.D.CDR funding, 1990-1992-

Research Affiliate, University of Hawaii, 1985-1986-

Research Assistant, University of the Philippines, Diliman, Quezon City, 1970-

Research Associate, University of the Philippines, Diliman, Quezon City, 1974-

Researcher, University of the Philippines, Diliman, Quezon City, 1977-

Assistant Instructor, University of Eastern Philippines, Catarman, Northern Samar, 1968-1970-

Project Leader, ACIAR-PCAMRD-UPV Improvement of Mudcrab Culture Systems in the Philippines and Australia, 1996 Ja-2000 D-

Project Leader, Verification Trial of Hatchery/Nursery Techniques for Production of Mud Crab Juveniles (PCAMRD), 1999 JI-2000 Je-

Project Leader, Validation of Culture Techniques for Mud Crab Production in Ponds (UPV-Land Bank of the Philippines, 2003 S 25-2004 Mr 25-

Project Leader, National Mollusk Program: Western Visayas Component (PCAMRD-funded project), 1990-1992-

Project Leader, PCARRD/RRDP Aquaculture Research Project, USAID/RRDP funding, 1989-1991-

Project Leader, UPV In-house Project-Integrated Coastal Resources and Watershed Management Project, 2003 JI-2004 Je-

Consultant, Aquaculture of the DOST, Dept. of Agriculture, Asian Development Bank, -

Association Membership

Incoming President, Philippine Fisheries Association

Secretary, Philippine Fisheries Association

Vice President for Visayas, Philippine Lake Network

Secretary-Treasurer, Philippine Fisheries Institutions Network (PhilFIN)

Executive Secretary, Philippine Fisheries Institutions Network (PhilFIN)-
Member, Philippine Aquaculture Society
Associate Member, National Research Council of the Philippines
Member, Philippine Fisheries Research Society
Member, Asian Fisheries Society
Member, International Society for Southeast Asian Agricultural Sciences
Member, Society of Aquaculture Engineers of the Philippines
Member, American Fisheries Society

Honors / Awards

Academician, NAST 2001
Best Paper Award in Aquaculture, Dr. Saturnino Abesamis Professorial Chair in Aquaculture 1984-1985; 1986-1987
Best Paper Award in Aquaculture, DJ Diamond Jubilee (R.S. Benedicto) Professorial Chair in Aquaculture 1992
Best Paper Award in Aquaculture, DJ Diamond Jubilee Professorial Chair in Aquaculture 1993 JI-1994 Je
Best Paper Award in Aquaculture, Francisco J. Nicolas Professorial Chair in Fisheries 1995-2004
Plaque of Recognition, JSPS-DOST Core University Program in Fisheries Science
Plaque of Recognition, For leading the various activities of the Philippine Fisheries Institutions Network (PhIFIN)
Outstanding Fisheries Jubilarian Award, U.P. Alumni Association, Iloilo Chapter 2003
Plaque of Recognition, For his invaluable support to the 2008 National Youth Science 2008 Ap 2

Trainings

Curriculum Development for Philippine Fisheries Institutions Network, Bicol University, Tabaco Albay 2004 JI
Seminar on Mud Crab Culture, Palompon Institute of Technology, Palompon Institute of Technology 2004 Je 22
Curriculum Development, Partido State University, Goa, Camarines Sur 2003
University of the Philippines Faculty Conference, Baguio City 1996 My 6-9
Island Sustainability and Livelihood Equity (ISLE) workshop, Shamrock Beach resort, Guimbal, Iloilo 1996 My 2-4
Second International Prawn Conference, Sarabia Manor Hotel, Iloilo City, Philippines 1996 My 13 - 17
National Academy of Science and Technology Annual Convention, Century Insular Hotel, Davao City 1996 JI 9-10
Fisheries Policy and Industry Development Workshop, Puerto Azul, Cavite 1996 F 5-8

Fisheries Summit, Bacolod Convention Plaza, Bacolod City 1995 My 2-4

Briefing of the City Council and NGO's of Cadiz City on Fisheries and Aquatic Resources Assessment, Municipal Waters of Cadiz City 1994 S 20

Sports Fishing Development in Boracay Island, Consulted by the Mayor and Municipal Council of Malay, Aklan 1994 S 14

Organized the National Seminar-Workshop to Review and Evaluate Philippine Fisheries Policy, Institute of Science and Mathematics and Education, U.P. Diliman, Quezon City 1993 S 27-28

National Symposium and Workshop on Lake Management, Philippine, Phil. Council for Aquatic & Marine Research and Development/DOST, Los Baños, Laguna, Philippines 1993 O 21-22

Dialogue with the Local Government Officials on Sea Ranching, New Washington, Aklan, Philippines 1993 N 11

Shrimp and Milkfish Farming for EEC/ADCP Trainees in Southeast Asia, DA Training Center, Pagbilao, Quezon, Philippines 1993 Ag

Third Asian Fisheries Forum, World Trade Center, Singapore 1992 O 25-30

Workshop on the Minimum Requirements for the B.S. Fisheries and Diploma in Fisheries Technology, DECS-TPAE, BVTE, BHT,MTI-TUP, Taguig City 1991 S 5-6

National Dialogue on the State of Fisheries Education in the Philippines, TP AE, BVTE, BHT, MTI-TUP, Taguig, Metro Manila 1991 S 4

Science Club Summer Camp, Miag-ao, Iloilo 1991 My 21

Enhancement of Aquatic Resources Symposium, Miag-ao, Iloilo (Philippines) 1991 Mr 9

Transfer Sea Bass Farming Technology to the People of this Community, Tangalan, Aklan 1991 Je 29

International Aquaculture Conference, BOSTID- ICLARM, ICLARM Headquarters, Makati, Metro Manila 1991 Ag 5-10

Served as a Regular Resource Person, Aquaculture Clinic, TLRC-PCAMRD Aquaculture Clinic 1989-1990

Training and Extension Program of the Brackishwater Aquaculture Center, 1988

ACIAR International Workshop for Management of Wild and Cultured Barramundi/Seabass, ACIAR and the Northern Territory Department of Ports and Fisheries, Darwin, Australia 1986 O

National Mollusc Workshop, PCARRD, ECOTECH, Cebu City 1986 My

Biennial Convention of the Philippines Association of Graduate Educators, Visayas State College of Agriculture, Baybay, Leyte 1985 O 25

Biennial Convention of the Philippines Association of Graduate Educators, Visayas State College of Agriculture, Baybay, Leyte 1985 O 25

Aquaculture Engineering, SEAFDEC-AQD, Philippines 1979

Fishpond Construction & Management, SEAFDEC-AQD 1977

Aquaculture Methodology and Economics, Auburn, Alabama, U.S.A. 1973

Researches

Completed

Common sources of fluvial loads from watershed areas that have potential contributions to coastal zone alteration

Effect of varying water depths and selected physico-chemical factors on the production of *Penaeus monodon*

Use of seabass, *Lates calcarifer* (Bloch) as biological control for unwanted species in ponds

The effect of various levels of organic manure loading on the production of Nile tilapia in brackishwater ponds

Survey of prawn diseases in Western Visayas

Increasing fish production through the development of culture techniques for potentially cultivable species

Cage culture of seabass in Palawan

Pond and cage culture of *Siganus guttatus* in Pangasinan

Pond and cage culture of grouper (*Epinephelus* sp.) in Pangasinan

Stock assessment of *Macrobrachium* sp. and its potential for culture

Development of management scheme to minimize the effect of overturn in aquaculture activities in Sampalok Lake

Fishery, biology and management of economically important shellfishes in selected areas of Western Visayas

Role of fertilizers and feeds as major nutrient sources in the production of tilapia nilotica in brackishwater ponds

Studies of lablab composition and their ecology in productive and less productive ponds

Characterization of productive and less productive ponds

Development of improved mud crab culture systems in the Philippines and Australia

Assessment of milkfish hatchery: Operations and privatization

Screening of potential species for culture in the coastal zone

Survey and identification of potential species for culture and determining their seasonal abundance

Polyculture of *Scatophagus argus* and *Penaeus monodon* and Development of culture techniques for *Siganus guttatus*

Technical evaluation of technologies for milkfish, prawn and mussels

Socio-economic evaluation of technologies used for milkfish, prawn and mussels

Technology diffusion process in milkfish, prawn and mussels

Simplification of techniques for broodstock maintenance and rearing

Effect of photoperiod on the gonadal maturation and development of the seabass, *Lates*

calcarifer (Bloch)

Mass culture of alternative natural food for seabass fry (a) Survey identification and production of natural food for seabass larvae

The role of sulfate ions in the potential to replace refined feeds with agricultural residues in Mariculture

Papers Presented

Fortes, R. D. (2009 Ap 28). Climate Change: Implications to Aquaculture, Bureau of Fisheries and Aquatic Resources Region IV, Bambang, Los Baños, Laguna.

Fortes, R. D. (2008 N). Issues and Concerns in Philippine Fisheries, Philippine Fisheries Association, Davao City.

Fortes, R. D. (2008 Je). Development and Innovation in Aquaculture in the Philippines, University of Sydney, College of Engineering. Sydney, Australia.

Fortes, R. D. (2007 Ap 4). Aquaculture: An Agent of Rehabilitation, Protection and Conservation of Aquatic Resources, Sampaguita Resort, New Washington, Aklan.

Fortes, R. D. (2006 O). Evaluation of the Total Cost of Inputs and Expenditures of Value Chains for Milkfish in the Visayas, First Bangus Congress, Amigo Plaza Hotel, Iloilo City.

Fortes, R. D. and Mueda, R.T. (2006). Evaluation of the Total Costs of Inputs and Expenditures in Two Value Chains: Milkfish and Shellfish, The Trade Policy and Trade Promotion Project www.gtz.de/trade, 10th Floor, German Development Center, PDCP Bank Center Building, V.A. Rufino cor. L.P. Leviste Streets Salcedo Village, Makati City, Philippines.

Fortes, R.D (2005). Review of Techniques and Practices in Controlling Tilapia Populations and Identification of Methods that may Have Practical Applications in Nauru, Marine Resources Division Secretariat of the Pacific Community BPD5 98848, Noumea Cedex New Caledonia .

Fortes, R.D. (2003 N). Fish Cage and Pen Aquaculture: Impact on Lake Environment, Proceedings of the First Lake Congress, Development Academy of the Philippines, Tagaytay City .

Catedrilla, L.C. and Fortes, R.D. (2003). National Seminar-workshop on Framework Development for Fisheries Extension, College of Fisheries and Ocean Sciences, U.P. in the Visayas, Miagao, Iloilo.

Fortes, R. D., Baylon, J.C., Marasigan, E.T., Failaman, A.N., Genodepa, J.G., Garibay, S.S. and Mamon, G.A.A. (2002). A Guide to Hatchery and Nursery Production of Mud Crab (*Scylla serrata*) Juveniles, College of Fisheries and Ocean Sciences, U.P. in the Visayas, Miagao, Iloilo, Philippines and PCAMRD/DOST, Los Baños, Laguna, Philippines.

Fortes, R.D. (1999). Mud Crab Research and Development in the Philippines: An Overview. In: Keenan, C.P. and A. Blackshaw, Mud Crab Aquaculture and Biology, Proc. Of an International Scientific Forum held in Darwin, Australia, 21-24 April 1997. ACIAR Proceedings No. 78, 216 p.

Fortes, R.D. (1997 Ap 21-24). Preliminary Results of the Rearing of the Mud Crab *Scylla olivacea* in Brackishwater Earthen Ponds. In: Keenan, C.P. and A. Blackshaw, Mud Crab Aquaculture and Biology, Proc. of an International Scientific Forum, Darwin, Australia, ACIAR Proceedings No. 78.

Fortes, R. D. (1996 N 24-26). Review the Culture Techniques for Tilapia in Saline Environments, First National Tilapia Symposium and Workshop.

Fortes, R.D. (1995). Shellfish Resource of Western Visayas, Philippines: Management and Rehabilitation for Sustainable Development and Utilization., Proceedings of International Seminar on Experiences in Sustainable Agriculture in Southeast Asia: Innovative Approach to Sustainable Agriculture (ESA-III) .

Fortes, R. D. (1994 N 11-12). Selected Shellfish Resources of Western Visayas, Philippines: Management and Rehabilitation for Sustainable Development and Utilization, Experiences in Sustainable Agriculture III, Khon Kaen, Thailand.

Fortes, R.D. (1994 Ja 24-26). Status and Needs of Research and Training for the Community-based Management of Fisheries and Aquatic Resources in the Philippines, Report of Workshop on Research and Training on Population and Development Dynamics of Rural Fishing Communities of Asia and Africa, CIRDAP/UNDP/FAO, Dhaka, Bangladesh.

Fortes, R.D. (1994). Aquafarming Practices in the Philippine Coastal Areas: Need for Sustainability, In: K. Abdullah and M. Higaki (eds.), Proc. Experiences in Sustainable Agriculture in Southeast Asia, JSPS-DGHE Cooperation Agricultural Sciences, Bogor, Indonesia.

Fortes, R. D. and Catedrilla, L.C. (1993 S 27-28). Philippine Fisheries Policy: Towards Sustainable Development of Fisheries Resources, Proc. National Seminar-Workshop on the Evaluation and Review of Philippine Fisheries Policy, ISMED, U.P. Diliman, Quezon City), U.P. Visayas, Miag-ao, Iloilo, Philippines.

Fortes, R.D., (1993 O 28-29). Management Options for Sustainable Development of Laguna de Bay, Lake Fisheries Management in the Philippines, In: Proceedings of the National Symposium Workshop on Lake Fisheries Management, by Edra, Rolando B., Eduardo V. Manalili and Rafael D. Guerrero III (eds.).

Fortes, R. D. (1992). Aquaculture Commodity Imports: Issues and Problems. In: M. P. Garcia (ed). Policies and Issues on Philippine Fisheries and Aquatic Resources, Proc. of the Roundtable Discussion of Phil Fish. Policies, DOST, Bicutan, Metro Manila. Phil. Council for Aquatic & Marine Research & Dev./DOST, Los Baños, Laguna, Philippines.

Fortes, R. D (1992). The Role of Sulfate Ions in the Potential to Replace Refined Feeds with Agricultural Residues in Mariculture, U.S.-Israel Cooperative Development Research Program No. DHR-554-G-SS-9068-00: RP-Israel Component Terminal Report, UPVCF Institute of Aquaculture, Brackishwater Aquaculture Center, Leganes, Iloilo, Philippines .

Fortes, R. D. (1991 O 24-25). Overview of Shellfish Mariculture in the Philippines. In: R.D. Guerrero & Garcia, M.P (eds). Advances in Finfish and Shellfish Mariculture, Proc. First Philippine-French Tech. Workshop in Finfish and Shellfish Mariculture, Philippine Council for Aquatic & Marine Res. & Dev./DOST, Los Baños, Laguna, Philippines.

Fortes, R. D. (1991 My 28-29). Utilization of Selected Prawn Farming Technologies in Western Visayas, Regional Symposium on R & D Highlights, WESVARRDEC, CPU, Iloilo City.

Fortes, R. D., Fortes, N. R., Pahila, I.G. (1991 Ag 6-10). Effect of Varying Levels of Sulfate Concentration in Saline Waters on Fish Yield, In: Aquaculture and Schistosomiasis, Proceedings of a Network Meeting, Manila, Philippines, National Research Council, National Academy Press, Washington, D.C .

Fortes, R. D. (1990 JI-S). State of Aquaculture in Western Visayas, TPAE, U.P. Los Baños, College, Laguna.

Fortes, R. D. (1990). Livelihood Activities in Coastal Marine Areas, National Workshop on Management and Conservation of Marine Resources UPMSI- PCAMRD-UNESCO.

- Fortes, R.D., B.L. Querijero & M.P. Garcia (1990). Development of Low Cost Feed/Update on Philippine Endemic Fishes, PCAMRD, Los Baños, Laguna .
- Fortes, R.D., C. R. Pagdilao & N.R. Fortes (1989). Guidelines in the Conduct of Yield Trials in Fisheries and for the Assessment/Enhancement of Fishery Resources, Department of Agriculture, Diliman, Quezon City.
- Fortes, R. D., Posadas, B., Cajilig, R.R., Baylon, L., Pudadera, E. and Belleza, I. (1988). Technology Assessment for Prawn Production in Western Visayas, PCARRD-IDRC Project, U.P. in the Visayas, College of Fisheries, Miag-ao, Iloilo .
- Fortes, R.D. (1987). Status of Seabass (*Lates calcanifer*) Culture in the Philippines, In: Mgt. of Wild and Cultured Seabass/barramundi, ACIAR Proc. No. 20, J.W. Copland and D.L. Grey (eds.).
- Fortes, R.D. (1987). Induced Spawning of Seabass (*Lates calcarifer*) in the Philippines , ACIAR Proc No. 20, In: Mgt. of Wild and Cultured seabass/barramundi, J.W. Copland and D.L. Grey (eds).
- Fortes, R.D. (1987). Production Techniques of Seabass (*Lates calcarifer*) Fingerlings in the Philippines, ACIAR Proc. No. 20, In: Mgt. of wild and cultured seabass/barramundi, J.W. Copland and D.L. Grey (eds.) .
- Fortes, R.D. (1987). Status of Aquaculture Research in the Philippines, In: Proceedings of the Workshop on on the Conversion of Mangrove Areas to Aquaculture. UNDP/UNESCO, New Delhi, India.
- Fortes, R.D, Guerrero, R.D. III, Guzman, D.L. and Lantican, C.M (1987). Culture Studies on *Tilapia* spp. under Saline Conditions at the Brackishwater Aquaculture Center, Proc. First Nat'l. Symp. and Workshop in *Tilapia* Farming, PCARRD, BFAR and SEAFDEC-AQD, Los Baños, Laguna, PCARRD Book Series No. 48.
- Fortes, R.D. and Genodepa, J.G. (1987). Improvement and Simplification of Techniques for Broodstock Maintenance and Rearing of Seabass in Earthen Ponds, Integrated Research Program "D", NSTA, UPV, Iloilo City.
- Fortes, N.R., Fortes, R.D. and Sanchez, M.L.V. (1987). Mass Culture of Alternative Natural Food Organisms for Seabass Larvae: Survey, Identification and Production of Natural Food for Seabass Fry, NSTA-UPV Integrated Research Program "D", UPV, Iloilo City .
- Oreta, D.B. and Fortes, R.D. (1987). Effect of Photoperiod on the Gonadal Development and Maturation of the Seabass, *L. Calcarifer* (Bloch), NSTA-UPV Integrated Research Program "D", UPV, Iloilo City.
- Fortes, R. D. (1986 S 23-O 2). Use of Seabass, *Lates Calcarifer* (Bloch) as Biological Control for Unwanted Species in Ponds, ACIAR International Workshop on the Management of Wild and Cultured Seabass/Barramundi in Darwin, Australia.
- Fortes, R. D. (1986 N). Culture Techniques for *Tilapia* spp. under Saline Conditions, First National *Tilapia* Symposium and Workshop, PCARRD Headquarters, Los Baños, Laguna, Philippines .
- Fortes, R.D., Corre, V.L. and Pudadera, E. (1986). Effects of Fertilizers and Feeds on *Oreochromis niloticus* Production in Philippines Brackishwater Ponds , In: J.L. Maclean, L.B. Dizon and L.V. Hosill(eds.)The First Asian Fisheries Forum, Asian Fisheries Society, Manila, Philippines .
- Fortes, R.D., Corre, V.L., Jr., Segura, E.P. and Abello, N.S. (1986). Screening and Potential Species for Culture in the Coastal Zone, Brackishwater Aquaculture Center,

College of Fisheries, U.P. in the Visayas, Leganes, Iloilo, Philippines.

Fortes, R.D (1985). Development of Culture Techniques for Seabass, *Lates calcarifer* (Bloch) , BAC Technical Brackishwater Aquaculture Center, College of Fisheries, U.P. in the Visayas, Leganes, Iloilo, Philippines.

Fortes, R.D (1982). Observations on the Polyculture of *Penaeus monodon* Fabricius with Selected Finfishes, Proceedings, PCARRD Fisheries Forum, Los Baños, Laguna, Philippines .

Fortes, R.D., Aure, R.C., Sanares, R.C., and Unarce, R.V. (1980). Effect on Fish Production of Piggery Wastes used as Feed and Fertilizer in Brackishwater Pond Fish Culture, In: Animal Waste Treatment and Utilization, Chung Po (ed), Council for Agricultural Planning and Development, Taipei, Taiwan, Rep. of China .

Fortes, R.D. and Fortes, N.R. (1980). Fertilization Practices in Brackishwater Fishponds and Some Recent Innovations , In: Proceedings of the PCARRD Fisheries Forum, 3rd Annual Convention of the Fisheries Research Society of the Philippines, PCARRD, Los Baños, Laguna, Philippines .

Fortes, R.D (1979). Some Advances in Tilapia Culture in the Philippines, In: Proceedings of the Tech. Consultation on Available Aquaculture Technology in the Philippines, SEAFDEC-AQD/PCARR, Tigbauan, Iloilo, Philippines .

Fortes, R.D (1979). Evaluation of 10-pounder and Tarpon as Predators on Java Tilapia in Brackishwater Ponds in the Philippines, Ph.D. Dissertation, Department of Fisheries and Allied Aquaculture, Auburn Univ., Alabama, U.S.A.

Fortes, R.D (1973). Studies on Chlorophyll in Pond Waters. M.S. Thesis, Department of Fisheries and Allied Aquaculture, Auburn University, Alabama, U.S.A .

Publications

- 2005 Fortes, R.D. Aquaculture in the Philippines: An economic activity and agent for a sustainable Fisheries and Aquatic Resources. In: Proc. of the Japan Society for the Promotion of Science Seminar on Environment and Aquaculture, UPV Journal of Natural Sciences, University of the Philippines in the Visayas, Miagao, Iloilo, Philippines, 2005, 10(1):103-112.
- 2003 Fortes, R.D First Cage and Pen Aquaculture: Impact on Lake Environment. Proceedings of the First Lake Congress held at Development Academy of the Philippines, Tagaytay City, 2003 N.
- 1995 Fortes, R.D Shellfish Resource of Western Visayas, Philippines: Management and Rehabilitation for Sustainable Development and Utilization. Proceedings of International Seminar on Experiences in Sustainable Agriculture in Southeast Asia: Innovative Approach to Sustainable Agriculture, 1995.
- 1994 Hamid, N., Fortes, R.D., Estepa, F. Effect of pH and ammonia on survival and growth of the early larval stages of *Penaeus monodon* Fabricius. Aquaculture, 1994, 125:67-72.
- Fortes, R.D Aquafarming practices in the Philippines coastal areas: Need for sustainability. Proceedings Experiences in Sustainable Agriculture in Southeast Asia. JSPS-DGHE Cooperation Agricultural Sciences, Bagor, Indonesia, 1994.
- 19932829 Fortes, R.D Management Options for Sustainable Development of Laguna de Bay.Lake fisheries Management in the Philippines. Proceedings of the National Symposium Workshop on Lake Fisheries Management, 1993 O 28-29.

- 1987 Fortes, R.D. Status of seabass (*Lates calcarifer*) culture in the Philippines. In: J.W. Copeland and D.L. Grey, eds, Management of Wild and Cultured Seabass/Barramundi (*Lates calcarifer*): Proc., International Workshop at Darwing, N.T. Australia, 1987:62-64.
- Fortes, R.D. Production techniques for seabass (*Lates calcarifer*) fingerlings in the Philippines. In J.W. copeland and D.L. Grey, eds. Management of Wild and Cultured Seabass/Barrimundi (*Lates calcarifer*). Proc. of an Inetrnational Workshop, 1987:183-185.
- 1985 Fortes, R.D. Effect of tarpon on the production of milkfish and tilapia in polyculture. UPV Fisheries Journal, 1985, 1(1):47-56.
- 1984 Fortes, R. D. Milkfish culture techniques generated and developed by the Brackishwater Aquaculture Center. In: Advances in Milkfish Biology and Culture, J.V. Juario, R.P. Ferraris and L.V. Benitez (eds), Island Publishing House, Inc. and SEAFDEC-AQD, Metro Manila, Philippines, 1984:107-120.
- 1982 Fortes, R. D. Tarpon as predator to control Java tilapia young in brackishwater ponds. Fisheries Research Journal of the Philippines, 1982.
- 1980 Fortes, R.D. Tarpon as predator to control Java tilapia young in brackishwater ponds. Fisheries Research Journal of the Philippines, 1980, 5(2):22-37.

Name **Alejandro N. Herrin**

Education

Ph.D. in Economics, University of South Carolina, Columbia, South Carolina, USA 1972
MA. in Economics, Xavier University, Cagayan de Oro City 1967
A.B. (Economics), Xavier University, Cagayan de Oro City 1966
Academic Credits, University of the Philippines, Diliman, Quezon City 1961-1963

Fields of Specialization

Demographic Economics

Employment

Instructor, Xavier University, 1966-1972-
Instructor, University of South Carolina, 1971-1972-
Assistant Professor, Xavier University, 1972-1977-
Demographic Analyst, Xavier University Research Institute, 1972-1973-
Deputy Director, Xavier University Research Institute, 1973-1978-
Chairman, Department of Economics, Xavier University Research Institute, 1977-
Associate Professor, University of the Philippines, 1978-1982-
Director for Finance, University of the Philippines, 1978-1979/1981-1984-
Chairman, Department of Economics, University of the Philippines, 1985-
Coordinator, Health Economics, University of the Philippines, 1986-1987-
Director for Finance, University of the Philippines, 1986-1987-
Chairman, Department of Economics, University of the Philippines, 1988-
Coordinator, Health Economics, University of the Philippines, 1989-1990-
Associate Professor, School of Economics, University of the Philippines, -

Honors / Awards

Outstanding Young Scientist (Demographic Economics), NAST-DOST 1982

Trainings

3rd Annual Meeting of the International Health Policy Program, Washington, D.C. 1990 O 08-12
National Workshop on Health Insurance, Beijing, Republic of China, 1990 My 07-18
Meeting of the Working Group on International Health Policy Research and Training Centers, International Health Policy Program, London 1990 F 25-Mr 2
Annual Conference on Development Economics, World Bank Washington, D.C. 1990 Ap 26-27

National Symposium on Health Planning and Management, Republic of China 1989 O 20-30

14th Annual Convention of the Federation of ASEAN Economic Associations, Philippine Economic Society, Manila 1989 N 16-18

Philippine Economic Society , 2nd Forum on Poverty and Economic Growth, Cagayan de Oro City 1989 My 26

Interregional Seminar on Financing Human Resources for Health, Bangkok, Thailand 1989 Mr 05-14

International Health Policy Conference, Manila, Philippines 1989 Jl 31-Ag 04

Workshop on Social Science Research Agenda on Schistosomiasis, UP CSSP, Quezon City 1989 Ja 28

Intercountry Workshop on Strengthening the Use of Health economics Principles, Riyadh, Saudi Arabia 1989 F 25-Mr 11

Orientation Workshop on Integrated POPDEV Planning Strategies/Activities, NEDA, Quezon City 1989 Ap 4-7

Workshop for Facilitators in Health Sector Financial Management, Manila, Philippines 1988 S 26-O 7

Scientific Working Group Meeting on Priorities in Applied Field Research in Schistosomiasis, Leiden, Netherlands 1988 S 15-17

Resource person, Parliamentary Conference on Human Survival, PARLCON, Manila, 1988 S 02

Implications of Urbanization, Aging and Morbidity and Mortality, Manila 1988 O 18

Seminar-Workshop on the Development of the National Health Insurance for Filipinos, Tagaytay City 1988 N 30-D 2

Seminar-Workshop: Towards a More People-Focused Development Planning, NEDA , Quezon City 1988 Mr 18-19

Project Development/Formulation Workshop on Integrated Population/Development Planning Project, NEDA, Quezon City 1988 D 7-8

Coordinator and lecturer, Workshop on Evaluation Research, NEDA, Quezon City 1988 Ap 4-9

Health Economics Course, Beijing , China 1987 My 05-27

Trainer's Course on Population and Development Planning, University of the Philippines 1987 Mr 26-Ap 11

Regional Seminar on Health Care Financing, Manila, Philippines 1987 Jl 27-31

Interregional Workshop on Economics of Health Manpower Development, WHO, Manila 1987 Je 22-26

Population Development Interregional Exchange, NEDA , Baguio City 1986 N 29-D 2

4th Intercountry Meeting of the ASEAN Population Programme, Denpasar, Indonesia 1986 My 18-22

Special Meeting of the ASEAN Population Programme Heads/Experts, Phuket, Thailand 1986 Ag 25-29

Population and Human Resource Planning, Republic of China and UNFPA , Anhui, China 1985 S 12-23

Intercountry Training Workshop on Population, Tokyo, Japan 1985 N 17-30

International Union for the Scientific Study of Population, Florence, Italy 1985 Je 05-Je 12

Lecturer and resource person (a) Population and Manpower, Cagayan de Oro City 1985 Ag 16

Integration of Population and Development as regional project coordinator, Penang, Malaysia 1984 O 10-13

Interactions of Socioeconomic Development with Morbidity and Mortality Transitions in Asia, 1984 My 28- Je 29

Population and Development Training Workshops for regional directors and senior officials of POPCOM, POPCOM, Manila 1984 My 07-12

Population and Development Workshop for City and Provincial Development Coordination, Iloilo City 1984 F 9-12

Population and Development Planning Workshop, NEDA Region 7 Cebu City 1982 N 08

Methodology for the Study of Population-Development Relationships, Tenting Highland, Malaysia 1982 My 24-28

Resource person at Symposium on Evaluation Research, University of the Philippines in Visayas, Iloilo 1982 Ja 29

Evaluation of Development Programs, Career Executive Service Development Program, Development Academy of the Philippines, Tagaytay City 1982 D 02

urbanization and spatial development in the philippines, Philippine Institute for Development Studies , Manila 1982 Ap 14

Workshop on the Role of Population Status Reports in Development Planning, Pattaya, Thailand 1981 My 6-8

Population-Development Dynamics and the Man/Resource Balance, Bangkok 1981 My 11-12

Several ASEAN Technical Meetings, Chiang Mai, Thailand 1980 N 19-22

Training Course in Labor Market Analysis, Institute of Labor and Manpower Studies, Manila 1979 O 17

Time allocation and home production, UPLB 1977 My 27-28

4th East-West Center Seminar on Population, East-West Population Institute, East-West Center, Honolulu and Seoul 1973 Jl -Ag

3rd International Conference of the Laboratories for Population Statistics, University of North Carolina at Chapel Hill, North Carolina 1972 Ap 25-27

Population Development Workshop on Methods and Techniques, NEDA,Cagayan De Oro City 1986 N 21-22

Seminar on Human Resources Development Concepts , Policies , Needs and Cooperation in the Region, Thammasat University , Pattaya , Thailand 1986 Mr 14-17

International Rural Sociology Association, Manila 1984 D 17-21

Population and Development Training Workshops for selected regional and central staff of NEDA, Manila 1984 Ap 02-14

4th International Conference of the Laboratories for Population Statistics , North Carolina at Chapel Hill, North Carolina, USA 1973 N 12-15

Researches

Completed

Philippine population laboratory project

Assessing the Impact of Development Projects

Food, Fuel and Urbanization in the Philippines

Integration of Population and Development

Migration and Agricultural Development in the Philippines

Economic-Demographic Trends in the Philippines

Factors Affecting the Choice of Location of Industry in the Philippines

Demographic Impact of Development Projects

The impact of external shocks and adjustment policies on the welfare of low-income groups

Determine and consequences of Health improvements in the Philippines

Population, human resources, Development and the Philippine Future

Human Resources and Development Policy in the Philippines

Population welfare and Public Policy in the Philippines

Review and assessment of the population activities in the Philippines

Economic and social consequences of schistosomiasis

Impact evaluation of a pilot project to strengthen the provision of MCH/FP services in selected urban poor communities

Introductory Perspective for Population and Development Planning

Analysis of fertility change in the Bicol River Basin

Seven provinces fertility project

Rural electrification evaluation project

Rural electrification: Economic and social impact

Female work experience and fertility in the Philippines

Social and economics study of fishing Communities in Misamis Oriental, Philippines

Economic and social impact of rural electrification

Population and development in Southeast Asia and Far East

Population and development in Asian Marine fishing communities

Assessment of the Impact of the Philippine Population Program Outreach Project

Fertility Determinants and Family Planning Interventions

Rural Electrification and Fertility Change in the Southern Philippines
Population and Development in the Philippines
Population Development Dynamics and the Man/ Resource Balance
Economic-demographic model of the Philippines
Consequences of population change in Asia

Papers Presented

- Herrin, A. (1990). Human Resource Policy and Economic Development: The Philippines, Asian Development Bank, Human Resource Policy and Economic Development.
- Herrin, A. (1990). Consequences of Population Change in the Philippines: A Research Strategy, The Meeting on the Consequences of Population Change in Asia.
- Herrin, A. (1990). Health Care Financing in the Philippines: Basic Issues, Information Gaps and Priorities for Policy Analysis, Roundtable Discussion on Health Care Financing/Disease Costing.
- Herrin, A. (1990). Institutionalizing Health Policy Research and Training in the Philippines, 2nd Meeting of the Working Group on International Health Policy Research and Training.
- Bautista, M.G. (1989). Health and Development: A Review of the Determinants and Consequences of Health Improvements in the Philippines, PIDS Survey of Philippine Development Research III, Philippine Institute for Development Studies.
- Kurth, H. (1989). Access to Basic Services and Efficiency of Public Provision: The Case of Health Care Services in the Philippines, Economic Growth and Income Distribution, MDED Press for Friedrich Ebert Stiftung.
- Herrin, A. (1989). Consequences of Population Change in the Philippines: A Review, Expert Meeting on the Consequences of Population Change in Asia.
- Herrin, A. (1989). Population, Human Resource Formation and Economic Growth in the Philippines, Thailand and the Republic of Korea, International Symposium on the Sources of Economic Dynamism in the Asia and Pacific Region.
- Herrin, A. (1989). Access to Basic Services and the Efficiency of Public Provision: The Case of Health Care Services in the Philippines, International Forum: Economic Growth and Income Distribution in the ASEAN Region.
- Herrin, A. (1988). Human Resource Development in the Philippines Policy Issues and Research Directions, Workshop on Human Resources Development.
- Herrin, A. (1988). Population and Human Resource Development, University of the Philippines 1988 General Faculty Conference, Tagaytay City.
- Herrin, A. (1988). Human Resource Formation in the Philippines: Problems and Prospects, Nihon University Population Research Institute.
- Herrin, A. (1988). Analytical Perspectives for Population and Development Research and Planning, United Nations Economic and Social Commission for Asia and the Pacific.
- Rosenfield, P. (1988). Economics Health and Tropical Diseases, University of the Philippines School of Economics.
- Rosenfield, P., Herrin, A. (1988). The Economics of Tropical Diseases: Issues and Research Directions, University of the Philippines School of Economics.
- Herrin, A. (1988). Selection Bias in Estimates of Community-Level Prevalence Rates",

University of the Philippines School of Economics.

Herrin, A., Rosenfield, P. (1988). Perceptions of Disease Impacts What Can They Tell Us, Health and Tropical Diseases, University of the Philippines School of Economics.

Herrin, A. (1988). Human Resource Formation in the Philippines, Meeting on Sources of Economic Dynamism in the Asia-Pacific Region.

Herrin, A. (1988). Population Change and Health/Nutrition, Regional Seminar on Frameworks for Population and Development Planning.

Herrin, A. (1988). Population and Development: Towards a Consensus on Population Policy, Roundtable Discussion II: Population, Human Resources and Development Issues.

Herrin, A. (1987). Economic and Demographic Adjustments to Economic Stress , National Academy of Science and Technology Republic of the Philippines.

Herrin, A. (1987). Evaluating Development Projects: Principles and Applications, National Economic and Development Authority..

Robert, A., Hackenberg , Henry, F., Magalit. (1987). Demographic Responses Development Sources of Declining Fertility in the Philippines, Boulder and London: Westview Press.

Herrin, A. (1987). Analytical Perspectives for Population and Development Research and Planning at Workshop on Population and Development Planning and Research, UN ESCAP, Bangkok, Thailand.

Herrin, A. (1987). Economic and Demographic Aspects of Poverty in the Philippine, The Conference on ASEAN Development: Problems and Prospects.

Herrin, A. (1987). The Conceptual Basis for the Study of the Economics of Malaria, The Conference of Social and Economic Determinants and Consequences of Malaria and its Control Under Changing Conditions.

Herrin, A. (1987). Population, Poverty and Public Policy in the Philippines, 2nd Workshop on Population and Development Planning and Research.

Herrin, A. (1987). Rural Electrification and Family Planning in Misamis Oriental, Philippines, Intercountry Meeting on the ASEAN Integration of Population and Development Planning Project.

Herrin, A. (1987). Economic and Demographic Adjustments to Economic Stress: The Case of the Urban Poor, 9th Annual Meeting of the National Academy of-Science and Technology, Manila.

Bilsborrow, R.E., De Lary, P.F. (1986). Rural Electrification, Fertility Change and Family Planning Practice in the Southern Philippines, New York: United Nations Fund for Population Activities.

Herrin, A. (1986). An Analysis of Socio-Economic Consequences of Schistosomiasis: A Preliminary Report, The 295h SEAMED-TROPED Seminar on Social and Economic.

Herrin, A. (1986). Selection Bias in Community-Level Prevalence Rates and Perceptions of Disease Impacts: What Can They Tell Us, in Meeting on the Economics of Tropical Diseases, The University of the Philippines SEconomics and WHO/World Bank/UNDP Special Programme for Research and Training in Tropical Diseases.

Herrin, A. (1986). Changing Economic Environment and the Welfare of Low Income Groups in the Philippines, 8th Annual Meeting of the National Academy of Science and

Technology, Manila.

Bautista, M., Herrin, A. (1986). Determinants and Consequences of Health Improvements in the Philippines, Seminar Workshop: A Program of Research on Health Policy and Development .

Hawser, P.M., Suits, D., Ogawa, N. (1985). Migration and Agricultural Development in the Philippines , Urbanization and Migration in ASEAN Development.

Hauser, M., Suits, D., Ogawa, N. (1985). Population Pressure, Agricultural Development and Migration in the Philippines: An Empirical Note, Urbanization and Migration in ASEAN Development.

Herrin, A. (1985). Towards Operationalizing the Concept of Integration of Population and Development Planning, Tokyo:Nihon University Population Research Institute.

Herrin, A. (1985). Integrating Population and Development: A Review of the ASEAN Population Programme's Potential Contribution to the Integration of Population and Development Planning, The 8th Annual Meeting of ASEAN Heads/Experts, sponsored by the ASEAN Population Coordination Unit.

Herrin, A. (1985). Demographic Trends, Population Policy and the Economic Crisis, 7th Annual Meeting of the National Academy of Science and Technology, Manila.

Engracia, L.T., Herrin, A. (1984). Female Work Participation and Fertility in the Philippines, The Philippines: Further Analysis of the Republic of the Philippines Fertility Survey.

Engracia, L.T., Jones, G.W., Herrin, A. (1984). Employment Structure of Female Migrants to the Cities in the Philippines, Southeast and East Asia Development Studies Centre, The Australian National University.

Herrin, A. (1984). Socio-Economic-Demographic Impact: The Case of Rural Electrification, Commission on Population and the National Economic and Development Authority.

Samson, L.L., Jimenez, M.C.C. (1984). Contemporary Social Science Research Policy and Programs: Roundtable Discussion Report, Quezon City:University of the Philippines Press.

Herrin, A. (1984). Food, Fuel and Urbanization in the Philippines, The Workshop on Food, Fuel and Urbanization.

Herrin, A. (1984). Fertility and Family Planning Behavior in the Bicol River Basin, 6th Annual Meeting of the National Academy of Science and Technology, Manila.

Herrin, A. (1983). Population and Development: Introductory Perspectives, National Economic and Development Authority..

Engracia, L.T., De Guzman, E., Feranil,I.Z., Paqueo, V.B., Pernia, E.M., Raymundo, C. (1983). An Introductory Guide to Population and Development Planning, National Economic and Development Authority..

Barlow, C., Richter, H.V., Canberra, Herrin, A. (1983). A Report of Research in the Southern Philippines: The Economic and Social Impact of a Rural Electrification, The Australian National University.

Herrin, A. (1983). Demographic Development in ASEAN: A Comparative Overview, The Joint Meeting of the ASEAN Heads of Population Programme.

Herrin, A. (1983). Population and Development: Introductory Perspectives for Planning,

The Conference on the Population Dimension of National Development Planning.

Herrin, A. (1983). Rural Electrification and Fertility Change in Misamis Oriental, Philippines: A Case Study on the Demographic Impact of Rural Development Programs, 5th Annual Scientific Meeting of the National Academy of Science and Technology, Manila.

Herrin, A. (1983). Social Science Research in the Philippines, The Social Science Congress, Quezon City.

Herrin, A. (1983). The Demographic Impact of Rural Development Programs: The Case of Rural Electrification and Fertility Change in Misamis Oriental, Philippines, 6th National Population Welfare Congress..

Herrin, A. (1982). Population and Development in ASEAN: Report of the Micro-Component of the ASEAN Project: Population Development Dynamics and the Man/Resource Balance, ASEAN Meeting of Population Programme Heads/Experts.

Herrin, A. (1982). Migration and Agricultural Development in the Philippines, International Conference on Migration and Development in Selected ASEAN Countries.

Herrin, A. (1982). Rural Electrification, Fertility and Family Planning Practice: A Case Study in Misamis Oriental, Philippines, Technical Workshop on the Integration of Population and Rural Development Policies and Programmes in ASEAN.

Herrin, A. (1982). Female Migration to the Cities and Urban Occupational Structure in the Philippines, The Conference on Women in the Urban and Industrial Workforce: Southeast and East Asia, Manila.

Herrin, A. (1982). The Cagayan Valley Rural Electrification Project: An Impact Assessment, The Seminar on the Economic and Social Impact Development Projects ESIA/WID, Baguio.

Engracia, L.T., Herrin, A. (1982). Female Work Participation and Fertility in the Philippines, The RPFS 1978 Second Stage Analysis Consultative Workshops.

Pernia, E.M., Herrin, A. (1982). The Performance and Prospects of Small and Intermediate Size Cities, 4th Annual Scientific Meeting of the National Academy of Science and Technology, Manila.

Herrin, A. (1981). Population Development Research in the Philippines, Philippine Institute for Development Studies.

Herrin, A. (1981). Fertility Impact of Rural Electrification in Misamis Oriental, 2nd Population/Development Consortium Meeting.

Herrin, A. (1981). The Fertility Impact of Rural Development Associated with a Rural Electrification Project in Southern Philippines, The Technical Meeting and Midterm Review of the ASEAN Project.

Herrin, A. (1981). Population and Development in ASEAN: A Status Report, ASEAN Population Programme Heads/Experts Meeting.

Herrin, A. (1981). Fertility Analysis as a Building Block for the Study of the Socio-Economic Impact of Demographic Change: Some Results from Northern Mindanao, International Population Conference of the International Union for the Scientific Study of Population.

Herrin, A. (1981). Population Research and Development Policy in the Philippines: An Overview of Policy Issues and Research Priorities, The Workshop on Agenda for Population/Development Research in the Philippines NEDA, Manila.

- Herrin, A. (1981). Economic Activities of Married Women in the Philippines: Conceptual and Measurement Issues, The Seminar-Workshop on Development Planning and the Roles and Status of Women, in the Philippines.
- Herrin, A. (1981). Economic-Demographic Development and Changing Lifestyle in the Philippines, 30th Annual Convention and Scientific Meeting of the Philippine Association for the Advancement of Science.
- Herrin, A. (1980). Workshop on Agricultural/Rural Change and Demographic Processes, East-West Center 11th Summer Seminar on Population.
- Herrin, A. (1980). Population and Development in SmallScale Marine Fishing Communities, 4th Intercountry Meeting of Population and Development in Asian Marine Fishing Communities.
- Herrin, A. (1980). Population Development Dynamics and Man/Resource Balance, Pre-Implementation Meeting of Phase II ASEAN Population Programme.
- Herrin, A. (1979). Industrialization and Rural Employment in the Philippines, Workshop on Industrialization and Rural Employment.
- Herrin, A. (1979). Population and Development in Asian Marine Fishing Communities, 3rd Intercountry Director's Meeting of the Asian Fishing Communities Project.
- Herrin, A. (1979). A Research Strategy for Analyzing the Demographic Impact of Rural Development Projects, Workshop of the International Consortium for the Study of the Demographic Impact of Rural Development Activities.
- Herrin, A. (1979). Population Development Dynamics and the Man/Resource Balance in ASEAN , 3rd ASEAN Meeting of Experts and Heads of Population Programmes.
- Herrin, A. (1979). Fertility Impact of Rural Development Activities: A Conceptual Framework and a Research Strategy, Workshop on the Fertility Impacts of Rural Development Activities and Agricultural Practices.
- Herrin, A. (1978). Notes on the Comparability Basis of the ASEAN Research Program on the Demographic Impacts of Rural Development, ASEAN Workshop on Concepts, Measurement and Methodologies for the Study of Population Development Relationship.
- Herrin, A. (1977). Rural Electrification and Fertility Change Hypotheses on Dynamics of Change in Southern Philippines, International Population Conference of the International Union for the Scientific Study of Population.
- Herrin , A. (1977). Rural Electrification and Socioeconomic-Demographic Change, Meeting of the Committee for the Comparative Behavioral Study of Population (COMBEP).
- Herrin, A. (1977). Integration of Population in Rural Development Policies and Programs in ASEAN, 2nd ASEAN Meeting of Experts and Heads of Population Programmes..
- Herrin, A. (1977). Presented report on Fertility Levels and Trends Misamis Oriental, 7th Province Study Seminar .
- Herrin, A. (1977). Rural Electrification Program: Consequences and Policy Implications, The Philippine Sociological Society Annual Convention Iloilo, City .
- Madigan, F.C., William Mulcahy. (1976). An Evaluative Studys of the Misamis Oriental Rural Electric Service Cooperative, (MORESCO) Manila: United States Agency for International Development.
- Bulatao, R.A., Herrin, A. (1976). Research Problems in the Demographic Effects of

Regional Development, Experts Meeting.

Mandigan, F.C., Herrin, A. (1976). New Approaches of the Measurement of Vital Rates in Developing Countries, Occasional Monograph Series, Number Three, Washington, D.C. Interdisciplinary Communications Program, Smithsonian Institution.

Herrin, A. (1976). ASEAN Comparative Study on the Demographic Impact of Rural Development Programs, Preparatory Consultation Meeting for the Meeting of ASEAN Heads of Population Programmes.

Herrin, A. (1976). Problems in the Application of the Own-Children Method in Southern Philippines, 2nd Own-Children Method Workshop, East West Population Institute.

Herrin, A. (1976). The Employment Effect of Rural Electrification, Seminar on Labor Supply.

Herrin, A. (1976). Rural Electrification: A Study Social and Economic Impact in Western Misamis Oriental, Philippine Sociological Society Annual Convention, Quezon City.

Herrin, A. (1976). Presented paper on Social Science Research in Agricultural and Socio-Economic Development, 1st Regional Agriculture and Resources Research Congress for Mindanao.

Herrin, A. (1975). Research Needed System, 5th International Laboratories for Population Statistics.

Herrin, A. (1974). Research Problems in the Demographic Effects of Regional Development, Experts Meeting on the Philippine Population Research.

Herrin, A. (). Female Labor Participation and Fertility in the Philippines: Policy Issues and Research Implications, 4th Annual National Population Welfare Congress.

Publications

- 1989 Herrin, A. Population, poverty and public policy in the Philippines. United Nations Economic and Social Commission for Asia and the Pacific, 1989, 2:249-290.
- 1988 Herrin, A. Population change and health/nutrition, in United Nations Economic and Social Commission for Asia and the Pacific. Frameworks for Population and Development Integrationa ESCAP Regional Perspectives, 1988, 1:193-210.
- 1987 Herrin, A. Factors Affecting the Choice of Location: Local and Foreign Firms in the Philippines. Regional Studies, 1987, 21(6):531-541.
- Pernia, E.M., Herrin, A. Factors Affecting the Choice of Location: A Survey of Foreign and Local Firms in the Philippines. Journal of Philippine Development, 1987, 14(1):89-140.
- 1986 Herrin, A. Socio-Economic Analysis of Schistosomiasis: A Conceptual Framework and a Research Strategy. Journal of Tropical Medicine and Public Health, 1986, 17(3):413-420.
- Herrin, A. Changing Economic Environment and the Welfare of Low Income Groups in the Philippines. Transactions of the National Academy of Science and Technology, 1986, 8:259-286.
- 1985 Paqueo, V.B., Herrin, A. Demographic Trends, Population Policy and the Economic Crisis. Transactions of the National Academy of Science and Technology (Philippines), 1985, 7:335-357.
- Herrin, A.N., Pardoko, H., Tan, B.A., Hongladarom, C. Integrating Population and

- Development: A Review of the ASEAN Population Programme's Potential Contribution to the Integration of Population and Development Planning. *Asia-Pacific Population Journal*, 1985, 1(1):49-74.
- 1984 Herrin, A. Fertility and Family Planning Behavior in the Bicol River Basin. *Transactions of the National Academy of Science and Technology*, 1984, 6:193-246.
- 1983 Herrin, A. Rural Electrification and Fertility Change in Misamis Oriental, Philippines: A Case Study on the Demographic Impact of Rural Development Programs. *Transactions of the National Academy of Science and Technology*, 1983, 5:29-64.
- 1982 Herrin, A. Philippine Demographic Development: Problems and Prospects. *Philippine Institute for Development Studies*, 1982:175-198.
- 1981 Herrin, A.N., Pardoko, H., Lim, L.L., Hongladarom, C. Demographic Development in ASEAN:A Comparative Overview. *Philippine Review of Economics and Business*, 1981, 18(3-4):132-153.
- 1979 Herrin, A. Rural Electrification and Fertility Change in the Southern Philippines. *Population and Development Review*, 1979, 5(1):61-86.
- Herrin, A. Economic and Social Correlates of Female Employment and Fertility. *Philippine Review of Economics and Business*, 1979, 16(3-4):69-96.
- 1977 Herrin, A. Rural Electrification: A Study of Social and Economic Impact in Western Misamis Oriental. *Philippine Sociological Review*, 1977, 25(3-4):129-138.
- 1976 Madigan, F.C., Abernathy, J.R., Tan, C.E. Purposive Concealment of Death in Household Surveys in Misamis Oriental Province. *Population Studies*, 1976, 3(2):295 -303.
- 1975 Madigan, F.C., Almonte, T.B., Cabaraban, M.C., Tan, C.E. Twenty-Two Months of Vital Rate Coverage by a Dual System in Northern Mindanao. *Philippine Sociological Review*, 1975, 23(14):75-90.
- 1973 Madigan, F.C., Almonte, T.B., Calica, E.B. Births and Death from a Dual Records System in the Philippines. *Philippine Sociological Review*, 1973, 21(2):115-135.

Name **Pio A. Javier**

Organizational Affiliations

Research Associate Professor, National Crop Protection Center, College of Agriculture, UPLB, College, Laguna

Research Associate Professor 6, Crop Protection Cluster, College of Agriculture, UPLB, College, Laguna

Education

PhD Entomology, Univ. of the Philippines Los Baños, College, Laguna 1989

MS Entomology, Univ. of the Philippines Los Baños, College, Laguna 1981

BS Agriculture, Univ. of the Philippines Los Baños, College, Laguna 1976

Fields of Specialization

Biological Control

Insect Pest Management

Employment

Research Associate Professor 6, Crop Protection Cluster, U.P. Los Baños, 2005 JI 1-present

Res. Associate Professor 3, National Crop Protection Center, U.P. Los Baños, 2000 JI 1-2003 Je 30

Res. Associate Professor 1, National Crop Protection Center, U.P. Los Baños, 1996 Ja 1-2000 Je 30

Univ. Researcher III, National Crop Protection Center, U.P. Los Baños, 1989 N 1-1995 D 31

Univ. Researcher II, National Crop Protection Center, U.P. Los Baños, 1989- JI 1-O 31

Researcher I, National Crop Protection Center, U.P. Los Baños, 1998 Ja 1-1989 Je 30

Research Associate III, National Crop Protection Center, U.P. Los Baños, 1987 Mr 1-1997 D 31

Research Associate III, National Crop Protection Center, U.P. Los Baños, 1990 Ja 1-1987 F 28

Res. Associate I, National Crop Protection Center, U.P. Los Baños, 1977 N 1- 1979 D 31

Sr. Research Asst., National Crop Protection Center, U.P. Los Baños, 1977 Ja 1-O 31

Researcher II, National Crop Protection Center, U.P. Los Baños, 1976 Mr 1- D

Research Assistant I, National Crop Protection Center, U.P. Los Baños, 1975 Je 1-1976 F 28

Association Membership

Member, Pest Management Council of the Philippines

Life Member, Gamma Sigma Honor Society of Agriculture

Member, Entomological Society of the Philippines
Life Member, Philippine Association of Entomologists
Member, Conservation Farming Movement
Member, Univ. of the Phils. Res., Extn. & Prof. Staff Assoc. Inc. (UP-REPSA) UP Los Baños Chapter (2002)
Member, Biotechnology Commission of the Phils.
Member, National Research Council of the Phils.

Honors / Awards

1st prize, STAR Award (w/ B. Morallo-Rejesus as Sr. author & G. Bilog as co-author), DOST, Region IV, Sta Cruz, Laguna 1991 Jl 6
Outstanding Published Paper, NAST 1992 Je 19
Outstanding NCPC Extension Award, NCPC, UPLB 1994 My 27
Achievement Award in Extension, Federation of Crop Science Soc. of the Phils. 1997 My 28
Outstanding NCPC Extension Award, NCPC, UPLB 1996 My 23
Outstanding Research Team Award (w/ B. Morallo-Rejesus, etc.), UPLB (89th Foundation Day) 1998 Mr 6
Outstanding Achievement Award in Extension (with Dr. GL Magsino, etc.), NCPC, UPLB 2000 My
Outstanding Senior Researcher, NCPC, UPLB 2001 My 21
Outstanding Extension Team Award (Integrated Pest and Disease Mgt. of Sugarcane), NCPC, UPLB 2003 My
Int'l. Publication Award "Integrated Pest Mgt. in the Phils." in IPM in the Global Area, Univ. of the Philippines 2003
Pest Management Award in Research, PMCP 2004 Mr 19
Nelia T. Gonzales Award of Excellence in Extension, CA, UPLB 2007 Mr 6
Outstanding Extension Award, UPLB 2007 Mr 6
L.B. Uichanco Outstanding Entomologist, Phil. Assoc. of Entomologists 2008 My 9
REPSA 2008 Outstanding Researcher Award, UPLB REPSA 2008 S 26

Trainings

37th PMCP Annual Conference, Davao City 2006 My 3-6
Study tour on the mechanized production *Trichogramma ostrinae* using *Corcyra cephalonica*, Corn Research Institute, Taiwan, Republic of China 1997 Je 15-21
IAEA/FAO Regional Training on Sterile Insect Technology & F-1 Sterility for Control, University of Ryukyus, Okinawa, Japan 1995 N 6- 12
IAEA/FAO Regional Training on Sterile Insect Technique and F-1 Sterility for Control, University of Ryukyus, Okinawa, Japan and Philippine Nuclear Research Institute 1995 N 12-5

Genetic Improvement of Natural Enemies for Biological Pest Control, Hebrew Univ. of Jerusalem, Faculty of Agriculture, Rehovot, Israel. 1988 Mr 5- S 11

JSPS Training on Insecticide Selectivity, Nagoya, Japan 1987 Mr 13-Ap 6

First BIOTROP Training Course on Storage Pests and Infestation Control, Bogor, Indonesia 1978 My 22- Je 30

Papers Presented

Javier, P.A. (2007 Ag 23). Insect Pest Management in Vegetables, Technology Investment Forum, University of Rizal System, Main Campus, Tanay, Rizal.

Javier, P.A., Ceballo, F.A., Bayot, R.G. (2007). Field evaluation of insecticides and non-insecticidal materials against pit scale, *Asterolecanium* sp. nr. *striatum* Russell, an invasive insect pest of calamansi in Calapan Oriental Mindoro, 38th Annual Conference of the PMCP, Bohol, Tagbilaran City.

Javier, P.A. (2006 My 3-6). Susceptibility of brown rice and milled rice to rice weevil complex, *Sitophilus* spp, 37th PMCP Annual Conference, Davao City.

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Javier, P. A. (2006). Biological Control of Citrus Scale Insects, Symposium of the Philippine Fruit Association, Oct 25, 2006, PCARRD, Los Baños, Laguna .

Javier, P. A. (2005). Farm-level Utilization of Predatory Earwigs and *Orius* sp. Against Insect Pests of Tomato, Workshop on Integrated Production and Pest Management in Processing Tomato: Issues and Prospects, July 20-22, 2005, Laoag City .

Javier, P. A. (2005). Role of Natural Enemies in Managing ACB Resistance Development, Seminar on Insect Resistance Management and Post-Commercial Monitoring of GM Crops. Oct. 13-14, 2005, Asturias Hotel, Puerto Princesa City, Palawan .

Javier, P. A., Ebor, R. V. and Hirao, G. A. (2004). The prospect of suppressing the increase in Asian corn borer, *Ostrinia furnacalis* (Guenee) population resistant to Bt-corn through field releases of males reared on non-Bt corn , Annual Scientific meeting of the Philippine Association of Entomologists, Inc., held at the 36th Annual Convention of the Pest Management Council of the Philippines, 3-6 May 2005, PHILRICE, Science City of Munoz, Nueva Ecija, Philippines.

Morallo-Rejesus, B., Javier, P. A., Bilog, G. P., Rosen David (2002). *Aphytis lingnanensis* and *Aphytis* sp. nr. *chrysomphali*, parasitoids of scale insects in citrus , International Citrus Congress, Israel.

Javier, P. A. (2002). Review of Current Knowledge on Asian Corn Borer, *Ostrinia furnacalis* (Guenee), Seminar-Workshop on Insect Resistance Management for Bt Corn, August 29, 2002, NAFC, DA, Quezon City. .

Javier, P. A. (2002). Management of Storage Insect Pests, Symposium on Brown Rice Milling and Marketing Nov. 21, 2002, Harrar Seminar Room, IRRI, Los Baños, Laguna.

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Morallo-Rejesus, B., Javier, P.A. (1981 Ja 20-22). Protection of bagged milled rice from insect infestation with pirimiphos methyl and malathion , 4th Annual Grains Post-Harvest Workshop, Paranaque, Metro Manila, Philippines.

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Publications

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- Javier, P. A. BT corn is safe to natural Enemies. *Agri Notes, College of Agriculture, College, Laguna, 2005*:4 pages.
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- 1982 Morallo-Rejesus, B., Javier, P.A., Juliano, B.O. Properties of brown rice and varietal resistance to three storage insects. Philippine Entomology, 1982, 5(2):227-238.
- 1981 Morallo-Rejesus, B., Javier, P.A. Protection of bagged milled rice from insect infestation with pirimiphos methyl and malathion. Proceedings of the 4th Annual Grains Post-Harvest Workshop, Paranaque, Metro Manila, Philippines, 1981 Ja 20-22:220-223.
- 1980 Morallo-Rejesus, B., Javier, P.A. Laboratory assessment of damage caused by *Sitophilus* spp. and *Rhizopertha dominica* in stored grains. Philippine Entomology, 1980, 4(4):293-301.
- 1976 Javier, P.A., Morallo-Rejesus, B. Control of lanzones bark borer, *Prasinoxena* sp. (Galleriidae: Lepidoptera), with notes on the biology. Philippine Entomology, 1976, 3(2):149-162.
- 1965 W. Manski, S. P. Halbert, P. Javier Comparison of rabbit antilens antibodies induced by iso and heteroimmunization. Annals of the New York Academy of Sciences - ANN N Y ACAD SCI', 1965, 124(1):352-364.

Name **Elsie C. Jimenez**

Organizational Affiliations

Professor of Chemistry, Dept. of Physical Sciences, College of Science, University of the Philippines, Baguio City

Director, Cordillera Studies Center

Education

Ph.D. in Molecular Biology and Biotechnology, University of the Philippines, Diliman, Quezon City 1996

Fields of Specialization

Biochemistry of Peptides and their Functional Effect

Toxicology

Biological Sciences

Peptide and Protein Biochemistry

Chemical Sciences

Biochemistry

Molecular Biology

Association Membership

Member, National Research Council of the Philippines

Editorial Board Member, Philippine Science Letters

Judge for Poster Session, Philippine Biotechnology Venture Summit

Reviewer, Philippine Biotechnology for Venture Summit

Honors / Awards

CHED Republica Zonal Award for Region 1, 2 and CAR, CHED 2005

President's Academic Distinction Awards for International Publications 1999-2005, UP 2005

UP Diamond Jubilee Professorial Chair in Chemistry, UP 2005

Research Fellowship, University of Utah, Salt Lake City 2005

Best Researcher Award, Philippine Society for Biochemistry and Molecular Biology 2006-2008

UP International Publication Award, UP Baguio 2006

Gawad Chanselor for Outstanding Senior Faculty, UP Baguio 2006

Research Fellowship, University of Utah, Salt Lake City, USA 2006 O-2007 Ap

Scientific Productivity Award (UP Scientist I), UP 2006-2008

Gawad Dangal ng Lipi (Agham at Teknolohiya), Bulacan Provincial Government 2008

UP Baguio Gawad Tsanselor bilang Pinakamahusay na Senior Faculty, UP (3rd time) 2008

Potentiano Ilusorio Professorial Chair Award, UP International Publication Award (1) 2008
JI-2009 Je

UCPB-MMC Professorial Award, UP International Publication Award (2) 2009 JI- 2010Je

Trainings

NRCP Chemical Sciences Meeting and Scientific Session, NRCP, Bicutan, Taguig City 2009

Philippine Biotechnology Venture Summit, Ateneo School of Medicine, Ortigas Ave., Pasig City 2008

Seminar for Faculty and Students, Universidad Central del Caribe, Puerto Rico- 2007

7th Asia-Pacific Congress on Animal, Plant and Microbial Toxins, Mactan, Cebu 2005 O 2

Researches

Completed

Inhibition of Veratridine-evoked catecholamine release in adrenal chromaffin cells by conotoxins Mr-VIA and PIIIA

Extreme divergence in gene product expression between populations of species

Definition of the M-Conotoxin Superfamily: Characterization of Novel Peptides from Molluscivorous Conus Venoms.

Extreme Divergence in Gene Product Expression Between Populations of a Species.

On-going

Biodiversity/Genetic Diversity of Selected Harmful Algal Bloom-Forming Species in the Philippines

A Proteomic Approach to Elucidate the Role of Granules in Conus Venoms

Bioiversity, Toxicology/Toxinology Projects

Molecular Modeling of Peptides

Toxicology and Toxicology of Philippine Harmful Algl Bloom Species

Papers Presented

Jimenez, E.C. (2009). Research notes on Conus venom: rich source of neuropeptides, 14th Annual Convention of the Natural products Society of the Philippines, CLSU, Nueva Ecija.

Jimenez, E.C. (2009). Conus venom inside out, NRCP Chemical Sciences Meeting and Scientific Session, NRCP, Bicutan, Taguig City.

Agtarap, E.R., Jimenez, E.C. (2009). Proteomic profiling of milked venoms and venom duct contents of Conus striatus, 10th National Symposium in Marine Science.

Jimenez, E.C. (2008). Conopeptides: the continuing frontier for world-class marine drugs, Philippine Biotechnology Venture Summit, Ateneo School of Medicine, Ortigas Ave., Pasig City.

Jimenez, E.C. (2008). Conus peptides: the search for world-class therapeutic agents, PCASTRD National Symposium in Science and Technology.

Jimenez, E.C., et al. (2008). Distint families of conotoxins targeted to nicotinic acetylcholine receptors, 35th Annual Convention of the Philippine Society for Biochemistry and Molecular Biology PSMBB).

Jimenez, E.C., Teichert, R.W., Olivera, B.M. (2007). Conantokin-Pr: Specific antagonist of N-methyl D-aspartate receptor, 34th Annual Convention of the Philippine Society for Biochemistry and Molecular Biology, Philippine Rice Research Institute, Science City of Munoz, Nueva Ecija.

Jimenez, E.C., Jacobsen, R., Watkins, M., Buczek, O., Gray, W.R., Cruz, L.J., Olivera, B.M. (2007). D-amino acid containing peptides from *Conus* venoms , Seminar for faculty and students, Universidad Central del Caribe, Puerto Rico.

Jimenez, E.C. (2005 O 24-30). The conantokin family: Conantokin-Pr is a novel sleep-inducing peptide from *Conus parius*, 7th Asia-Pacific Congress on Animal, Plant and Microbial Toxins, Mactan, Cebu.

Publications

- 2009 Jimenez, E.C. Conantoxins: from sleeper activity to drug development. *Philippine Science Letters*, 2009, 2:60-66.
- 2008 Jimenez, E.C., Sasakawa, N., Kumakura, K. Effects of Sodium Channel-targeted conotoxins on catecholamine release in adrenal chromaffin cells. *Philippine Journal of Science*, 2008, 137:127-132.
- Teichert, R.W., Jimenez, E.C., Olivera, B.M. *Biology and Pharmacology of Conotoxins in Botulinum Toxin: Therapeutic Clinical Practice and Science*. Jankovic J, Albanese A, Atassi MZ, Dolly JO, Hallett M, Mayer N (eds) Amsterdam and New York: Elsevier Science, Inc, in press, 2008.
- 2007 Buczek, O., Jimenez, E.C., Yoshikami, D., Imperial, J.S., Watkins, M., Morrison, A., Olivera, B.M. Superfamily conotoxins and prediction of single D-amino acid occurrence. *Toxicon*, 2007 S 29, 51:218-229.
- 2007 Teichert, R.W., Jimenez, E.C., Twede, V., Watkins, M., Hollmann, M., Bulaj, G., Olivera, B.M. Novel conantokins from *Conus parius* venom are specific antagonists of NMDA receptors. *Journal of Biological Chemistry*, 2007 O 25.
- 2007 Jimenez, E.C., Olivera, B.M., Teichert, R.W. aCConotoxin PrXA: a new family of nicotinic acetylcholine receptor antagonists. *Biochemistry*, 2007, 46:8717.
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- 2005 Jimenez E.C. Posttranslational amino acid isomerization: A functionally important D-amino acid in an excitatory peptide. *Journal of Biological Chemistry*, 2005, 280:4247.
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- 2004 Jimenez, E.C. Posttranslational amino acid isomerization : A functionally important D-amino acid in an excitatory peptide. *Journal of Biological Chemistry* [E-publication ahead

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2004 Jimenez, E.C. Multiple 6-Bromotryptophan Residues in a Sleep-inducing Peptide. 43:12343-8,2004., 2004, 43:12343-8.

Jimenez, E.C. Conus Venom Neuropeptides in Encyclopedia of Neuroscience. Elsevier, 3rd ed.(Adelman, G. and Smith, BH eds.)Amsterdam, the Netherlands, 2004.

2003 Jimenez, E. Novel excitatory conus peptides define a new conotoxin superfamily. Journal of Neurochemistry, 2003, 85:610-621.

Jimenez, E. Efficient folding of conotoxins and the radiation of venomous cone snails. Proceedings of the National Academy of Science, USA, 2003, 100(Suppl. 2):14562-14568.

Jimenez, E.C., Olivera, B.M. Albanese and Other Neurotoxins. Translating Science Into and Pharmacology Science, Inc., Amsterdam and New York (eds)A, Atassi MZ, Dolly JO, Hallett M, Mayer N , .

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Organizational Affiliations

Assistant Professor 6, Institute of Plant Breeding-Crop Science Cluster, University of the Philippines, College, Los Baños, Laguna, Philippines, 4031

Education

Ph.D. in Bioresources Engineering (Molecular Biology), University of Tsukuba, Tennodai 1-1-1, Tsukuba City, Ibaraki Pref., Japan 2006 Mr 24

M.S. in Bioresources Engineering (Molecular Biology), University of Tsukuba, Tennodai 1-1-1, Tsukuba City, Ibaraki Pref., Japan 2003 Mr

B.S. Agriculture (Horticulture-Plant Breeding), University of the Philippines, College, Los Baños, Laguna, Philippines, 4031 1995 D

M.S. in Plant Breeding, University of the Philippines at Los Baños, College, Laguna -

Fields of Specialization

Rootcrops breeding

Molecular Biology

Plant Breeding

Biotechnology

Genetic engineering

Employment

Assistant Professor 4, Institute of Plant Breeding-Crop Science Cluster, University of the Philippines, 2008 N-

University Research Associate, Institute of Plant Breeding, University of the Philippines, 1995 N-2008 Ap-

Student Assistant, Department of Agronomy, University of the Philippines, 1995 Je-N-

Association Membership

member, Rootcrops Varietal Improvement Group

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member, Association of Filipino Scholars in Tsukuba (FAST)

Member, Japanese Society of Breeding

Member, Rootcrops Varietal Improvement Group of the Philippines

Member, Gamma Sigma Delta Honor Society in Agriculture, UPLB Chapter

Member, Association of Filipino Scholars in Tsukuba (FAST)

Member, Fiber Crops Technical Working Group

Member, Crop Science Cluster Academic Personnel Committee

member, Gamma Sigma Delta Honor Society in Agriculture

Honors / Awards

Monbusho Scholar, (2000-2006)

Outstanding Young Scientist (OYS), National Academy of Science and Technology, Manila Hotel, Manila Philippines 2009 JI 9

Outstanding Lipeno in Science and Technology, Lipa Cultural Center, Lipa City, Batangas, Philippines 2008 Ag 16

Outstanding Researcher for 2007, Institute of Plant Breeding 2007

UP International Publication Award, University of the Philippines 2006

Japanese Government Scholarship (Monbusho), Japanese Government 2000-2006

Trainings

Agricultural Biotechnology Training-Workshop, Taiwan University (NTU), Taipei City, Taiwan 2008 Ag 31-S 11

TWG on Plant Made Pharmaceuticals (PMPs), College of Public Health, UP Manila 2007 Ap 12

DA-Biotech Program Monitoring and Evaluation System (DA-Biotechnet) User's Hands Training/Workshop, Department of Agriculture-ITCAF, Diliman, Quezon City 2006 S 8

56th Seminar-Workshop on College Teaching, A.C. Samonte Hall, University of the Philippines 2006 N 6-10

Crop Improvement Through Molecular Marker Technology, Institute of Plant Breeding-Crop Science Cluster, College of Agriculture, UPLB, College, Laguna 2006 JI 26-Ag 10

Workshop on Biofuel Research, A.C. Samonte Hall, University of the Philippines, Los Baños, College, Laguna, Philippines 2006 Je 29

Agrobacterium-mediated transformation of sweetpotato, Plant Genetic Engineering Lab., University of Tsukuba, Japan 2000 O 1-2001 Mr31

Japanese Language and Culture, International Student Center, University of Tsukuba, Japan 2000 Ap 4-S

Characterization and Duplicate Identification in Sweetpotato Germplasm Collection, CIP, IPGRI. Philippine Root Crops Research and Training Center, Leyte Philippines 1999

Database Management, Institute of Computer Science, University of the Philippines

Researches

On-going

Morphological Characterization and DNA Fingerprinting of Different Banana (*Musa* spp) Cultivars Using Microsatellite Markers

Development of Molecular Markers in Abaca (*Musa textilis* Nee) for Utilization in Breeding for High fiber Yield and Virus Resistant Cultivars

Germplasm Management, Varietal Improvement and Seed Technology R&D for Physic Nut (*Jatropha curcas*): Component 1.2 Varietal Improvement of *Jatropha curcas*

Sugarcane Breeding: Sugarcane Planter-Researchers Partnership in Developing Sugarcane Variety for Luzon Areas

Seed piece Production of Selected Cassava and Sweetpotato Recommended Varieties

Cassava breeding

National Cooperative Testing (NCT) for rootcrops

Abaca breeding

Sweetpotato breeding

Development of Sweetpotato with Resistance to Feathery Mottle Virus Through Genetic Transformation

Papers Presented

Lalusin, A.G (2011 JL 13-14). Genetic Diversity, Population Structure and DNA Fingerprinting of Abaca(*Musa textilis* Nee), 33rd NAST Annual Scientific Meeting.

Lalusin, A.G (2011 JL 13-14). Evaluation of Gamma Irradiated Abaca(*Musa textilis* Nee.) for Resistance to Abaca Bunchy Top Virus and Banana Bract Mosaic Virus Under Screenhouse Condition, 33rd NAST Annual Scientific Meeting.

Lalusin, A. (2008 S 30). Development of High Yielding and Bunchy Top Virus Resistant Abaca Cultivars, ADSS Seminar, Searca, Los Baños, Laguna.

Lalusin, A.G. (2008 N 25). Development of High Yielding and Bunchy Top Virus Resistant Abaca Cultivars, Investors' Forum on Agricultural Biotechnologies, Institute of Small-Scale Industries, UP Diliman, Quezon City.

Lalusin, A.G., Nishita, K., Kim, Sung-Hyung Ohta, M., Fujimura, T. (2005 Je 14-17). Cloning and characterization of two new MADS-box genes (IbMADS1 and IbMADS2) in sweetpotato (*Ipomoea batatas* (L.) Lam), 2nd International Symposium on Sweetpotato and Cassava, MARDI, Kuala Lumpur, Malaysia.

Lalusin, A. G., Hu, Jingjie, Akihiro, T. and Fujimura, T. (2003). In-planta transformation of rice AGPase sub-unit genes in multiple shoot-induced sweetpotato, Breeding Science, Kobe University, Japan.

Publications

2011 Lalusin, A.G. Unique Nucleotide Differences of Two Putative Ty1/Copia-like Long Terminal Repeat Retrotransposons of Abaca (*Musa textilis* Nee). Transactions of the National Academy of Science and Technology. Abstracts of Papers, 2011 JI 13014, 33(1).

2011 Lalusin, A.G. Genetic Diversity, Population Structure and DNA Fingerprinting of Abaca(*Musa textilis* Nee). Transactions of the National Academy of Science and Technology. Abstracts of Papers, 2011 JL 13-14, 33(1).

2011 Lalusin, A.G. Evaluation of Gamma Irradiated Abaca(*Musa textilis* Nee.) for Resistance to Abaca Bunchy Top Virus and Banana Bract Mosaic Virus Under Screenhouse Condition. Transactions of the National Academy of Science and Technology. Abstracts of Papers, 2011 JL 13-14, 33(1).

2009 Carpena, A.L., Manguiat, P.H., Del Rosario, E.E., Lalusin, A.G., Gueco, L.S., Reano, C.E., Rodriguez, F.M., Quillooy, R.B. Development and release in the Philippines of sweetpotato variety, NSIC Sp-31. Philippine Agricultural Scientist, 2009 Mr, 92(1).

Lalusin, A.G., Manguiat, P.H. Development of High Yielding and Bunchy Top Virus Resistant Abaca (*Musa textilis* Nee.) Cultivars. Transactions of the National Academy of Science and Technology. Abstracts of Papers, 2009, 31(1).

2006 Antonio G. Lalusin, Masaru Ohta, and Tatsuhito Fujimura Temporal and Spatial Expression of Genes Involved in Anthocyanin Biosynthesis During Sweetpotato (*Ipomoea*

- batatas (L.) Lam.) Root Development. *International Journal of Plant Sciences*, 2006, 167(2).
- Lalusin, A.G., Ohta, M., Fujimura, T. Temporal and spatial expression of genes involved in anthocyanin biosynthesis during sweetpotato (*Ipomoea batatas* (L.) Lam) root development. *International Journal of Plant Sciences*, 2006, 167(2):249-256.
- Lalusin, A.G., Nishita, K., Kim, Sung-Hyung Ohta, M., Fujimura, T. A new MADS-box gene (*IbMADS10*) from sweetpotato (*Ipomoea batatas* (L.) Lam.). *Molecular Genetics and Genomics*, 2006, 275:44-54.
- Antonio G. Lalusin, Koichi Nishita, Sung-Hyung Kim, Masaru Ohta, and Tatsuhito Fujimura A new MADS-box gene (*IbMADS10*) from sweetpotato (*Ipomoea batatas* (L.) Lam) is involved in the accumulation of anthocyanin. *Molecular Genetics and Genomics*, 2006, 275(1):44-54.
- 2005 Kusaka, M., Lalusin, A.G., Fujimura, T. The maintenance of growth and turgor in pearl millet (*Pennisetum glaucum* (L.) Leeke) cultivars with different root structures and osmo-regulation under drought stress . *Plant Science*, 2005, 168(1):1-14.
- 2004 Hu, Jingjie, Nakatani, M., Lalusin, A.G., Fujimura, T. New microsatellite markers developed from reported *Ipomoea trifida* sequences and their application to sweetpotato and its related wild species. *Scientia Horticulturae*, 2004, 102:375-386.
- 2003 Hu, Jingjie, Nakatani, M., Lalusin, A. G. Kuranouchi, T. and Fujimura, T. Genetic analysis of sweetpotato and wild relatives using inter-simple sequence repeats (ISSRs) . *Breeding Science*, 2003, 53:297-304.
- Lalusin, A. G. Guide for sweetpotato production. Institute of Plant Breeding, University of the Philippines, College, Los Baños, Laguna, Philippines, 4031, .

Name **Reynaldo M. Lantin**

Organizational Affiliations

Professor of Agricultural Engineering, Institute of Agricultural Engineering, College of Engineering and Agro-Industrial Technology, UPLB, College, Laguna

Education

PhD in Agricultural Engineering, Iowa State University, Ames, Iowa, U.S.A. 1968

MS in Agricultural Engineering, University of the Philippines Los Baños (UPLB), College, Laguna 1964

BS in Agriculture, Cum laude, major in Agricultural engineering, University of the Philippines Los Baños (UPLB), College, Laguna 1959

Fields of Specialization

Agricultural Engineering

Employment

Retired Professor, Agricultural Engineering, University of the Philippines Los Baños (UPLB), 2004 D 1-Ap 28

Retired Professor, College of Engineering and Agro-industrial Technology (CEAT), IAE, College Laguna, Philippines, 2004 D 1-Ap 28

Project Leader, Policy and Institutional Development, Agricultural Mechanization Development Program, UPLB, 2000-present

Section Editor (Agricultural Engineering), The Philippine Agricultural Scientist, 2000 Je-2003 D

Co-operating Editor, AMA, Farm machinery Industrial Research Corporation, Tokyo, Japan, 1971-present

Consultant, United Nations Industrial Development Organization (UNIDO), Vienna, Austria, 2001 My-Jl

Consultant, UNIDO (Integrated Project to Develop the Agricultural Machinery and Tools Industry), 2003 My-Je

Consultant, United Nations Economic and Social Commission of Asia and the Pacific (UN/ESCAP), Bangkok., 1997 O-D

Visiting Scientist and Interim Head, Agricultural Engineering Division, IRRI, Los Baños, Philippines, 1994 Je15-1996 Je17

Expert, Agro-related Metalworking Industries, UNIDO, 1993 Mr-1994 My 1994

Agricultural Machinery Expert, UN/ESCAP, 1984 Ja 1-1991 D 31

Professor/Dean, Agricultural Engineering, CEAT/UPLB, 1976 O 1-1983 D 31

Program Manager, Agricultural Mechanization Development Programme (AMDP), 1978 Ja-1983 D

Team Leader, Agricultural Engineering Research and Development Team, PCARRD,

1978-1983

Chairman, Department of Agricultural Machinery Engineering and Technology, CEAT/UPLB, 1976 JI-S

Expert, Farm Mechanization and Transport, Sycip, Gorres, Velayo and Company, Inc. (SGV), 1974 S-1976 Je

Consultant (Asian Development Bank), Agronomics, Inc., 1972 JI-Ag

Association Membership

President/Member, Philippine Society of Agricultural Engineers

Associate Member, American Society of Agricultural Engineers

Member, Crop Science Society of the Philippines

Member, Society for the Advancement of Research

Member, Gamma Sigma Delta Honor Society of Agriculture

Member, Phi Kappa Phi

Founding President/Member, Iowa State University Alumni Association in the Philippines

Member, San Pablo Toastmasters Club

Member, IRRI Toastmasters Club of the Toastmasters International, Palo Alto, California, USA,

Vice-president and Member of the Board of Directors, SIKAP BIDANI, Inc.

Member, FAO Panel of Experts in Agricultural Engineering

Faculty Member, University of the Philippines College of Agriculture

Honors / Awards

Fellowship for PhD Study in Agricultural Engineering at Iowa State University, Ames, Iowa, USA, The Rockefeller Foundation 1964-1968

Leadership and Honor Medals, UP Los Baños Reserve Officers Training Corps (ROTC) Unit 1956-1959

Undergraduate Scholarship for BS in Agriculture, UP College of Agriculture - Standard Vacuum Oil Company 1956-1959

Graduated Cum laude, BS Agriculture, University of the Philippines 1959

Vanguard Oblation Award for Agricultural Engineering, UP Vanguard Inc. 1976

Distinguished Alumnus Award (Agricultural Engineering Education), UP College of Agriculture on its Diamond Jubilee Year 1984

Achievement in Agricultural Engineering Education, UP Vanguard, Inc. 1985

Professorial Chairs for Agricultural Engineering, Metro Manila Commission 2003-2004

Professorial Chairs for Agricultural Engineering, Philippine National Oil Corporation 2002-2003

Professorial Chairs for Agricultural Engineering, Southeast Asia Regional Centre for Agricultural Research and Graduate Studies, (SEARCA) 2000-2001

Letters Patent for Invention. Garbage Composter Patent No. 1-1999-0011782, Intellectual

Property Philippines, Bureau of Patents 2007 O 1

Testimonial for Excellence in Agricultural Engineering, CEAT/UPLB Faculty and Staff/Iowa State University Alumni Association 2004

Profession in Agriculture, University of the Philippines Alumni Association 1992

Distinguished Alumnus Plaque of Honor and Recognition, UPLB College of Engineering and Agro-industrial Technology 1986

Research Scholarship for MS in Agricultural Engineering, University of the Philippines at Los Baños, IRRI 1962-1964

Visiting Professor, CEAT/UPLB, College, Laguna 1991 Je 1-1993 My 31

Trainings

Commercialization of research results, SEARCA, UPLB, Los Baños, Laguna 1992 S 1-29

Computer Training Course, UPLB Computer Training Center 1992 O 21- 20

Processing of Essential Oils, Department of Trade and Industry, Manila 1988 Ag

Technological Aspects Training Course for Monitoring and Evaluation of Rural Dev. Proj., Mindoro, Philippines 1979 Mr-My

Agro-industrial Projects Course, Economic Development Institute of the World Bank 1977 O 3-N 11

Dale Carnegie Course in Leadership and Executive Development, Executive Training Institute, Manila 1961 Ap-My

Field Practice on Agricultural Machinery Operation, Repair and Maintenance, International Harvester Macleod, Inc., Manila/Bulacan/Pampanga 1960 Ap

Researches

Completed

Strategy formulation for agricultural mechanization and post-harvest engineering in the Integrated Cooperative Farming System in Camarines Sur

Promotion and development of Agro-related Metalworking Industries in least developed countries

Regional Network for Agricultural Machinery (RNAM)

Technologies for Rural Development in Nepal

Arrowroot rasper/flour maker to village women in Rizal, Laguna

Papers Presented

Lantin, R. M. (2008 My 22). A Parallel Strategy for the Production of Biofuels, Paper submitted to Senator Juan Miguel F. Zubiri during the Launching of the Laguna Biofuel Development Program, held in Magdalena, Laguna.

Lantin, R. M. (2008 Ap 21-25). Strategies for the Production of Biodiesel from Jatropha and Other Oilseeds, 58th PSAE Annual National Convention, 6th International Agricultural Engineering Conference & Exhibition and University of the Philippines Los Baños Centennial Celebration, Electrical Engineering Building, University of the Philippines Los Baños, College, Laguna.

Lantin, R. M. (2003 Ja 24). Precision Agriculture: Integrating Engineering Innovations with Agronomic Requirements for Crop Establishment of Hybrid Rice, Metro Manila

Commission Professorial Chair Lecture delivered at CEAT/UPLB.

Lantin, R. M. (2003 Ja 24). Land Consolidation: A Giant Step Towards Agriculture Modernization through Mechanization, Philippine National Oil Corporation Professorial Chair Lecture delivered at CEAT/UPLB.

Lantin, R. M., Larona, M. V. L., Amongo, R. M., Del Rosario, A.C., Geronimo, B. C. and Bueno, M. C. (2003 Ja 15-17). Land Consolidation Efforts for Corn Farms in the Philippines, Department of Agriculture First Philippine Corn Annual symposium and Planning Workshop, Calamba City.

Lantin, R. M. (2002 Ap 23-26). Moving Towards Land Consolidation: Initiatives in Corn Production, 52nd Annual National Convention of the Philippine Society of Agricultural Engineers, Puerto Princesa City, Palawan.

Lantin, R. M. (2001 Je 28). Re-engineering the Lowland Rice Production System: Innovative Concepts, SEARCA Professorial Chair lecture delivered at CEAT/UPLB, College, Laguna.

Lantin, R. M. and Rodulfo, V. A. (2001 Ap 23-27). Performance Testing of the Power Tiller-attached Rice Transplanter, Annual Convention of the Philippine Society of Agricultural Engineers, Cebu City.

Lantin, R. M. (1999 My 23-27). Country Report on Rice Transplanters and Seeders, Regional Network for Agricultural Machinery Regional Workshop on Rice Transplanters and Seeding Machinery, Rural Development Administration, Ministry of Agriculture and Forestry, Suwon, Korea.

Lantin, R. M., Tado, C., Rodulfo, V. Bautista, E., and Orge, R. (1999 Ap 25-28). Status of Mechanized Rice Transplanting Research in the Philippines, Annual Convention of the Philippine Society of Agricultural Engineers held in General Santos City.

Lantin, R. M. (1998). Moving Towards a Commercial and Integrated Mechanized Rice Production and Processing System in the Philippines, International Convention of the Philippine Society of Agricultural Engineers, IRRI, Los Baños.

Lantin, R. M. and Libunao, O. (1997 Ap 28). Simulation of a Sugarcane Transport System in Northern Leyte, Annual Convention of the Philippine Society of Agricultural Engineers.

Lantin, R. M., Paita, B.L. and Manaligod, H. T. (1995 O 17-20). Revisiting Sundrying of Grain: Widely Adopted but Technologically Neglected, In: Grain Drying in Asia, Proceedings of an International Conference, the FAO Regional Office for Asia and the Pacific, Bangkok, Thailand, Edited by B. R. Champ and G. L. Johnson, Australian Centre for International Agricultural Research (ACIAR).

Lantin, R. M. (1995 Ap 20-24). Agricultural Mechanization in the Philippines, Annual Convention of the Philippine Society of Agricultural Engineers (PSAE), Central Luzon State University, Munoz, Nueva Ecija, Philippines.

Lantin, R. M. (1987 F 23-28). Agro-industrialization: A Thrust for the College of Engineering and Agro-industrial Technology, Engineering Week Convocation at the University of the Philippines Los Baños, College, Laguna.

Faigmane, L. O. and Lantin, R. M. (1983 D 1-2). A Review of Past, Present and Proposed mechanization strategies in the Philippines, Workshop on the Consequences of Small Rice Mechanization Project, IRRI, Los Baños, Laguna.

Lantin, R. M. (1981 S 14-18). Mechanization Policies and the National Agricultural Mechanization Council of the Philippines, IRRI Seminar on Consequences of Mechanization, IRRI, Los Baños, Philippines.

Lantin, R. M. (1981 Ap 29-30). Proposed agricultural mechanization policies, 31st Annual Convention of the Philippine Society of Agricultural Engineers.

Lantin, R. M. (1980 JI 10). Energy Resource System - A Factor in Food and Nutrition Planning , Food and Nutrition Planning Training Programme, UPLB/NUFFIC, College, Laguna.

Lantin, R. M. (1980 Ap 27-28). Assessment of the Use of Animal Power for Small Farms in Philippine Agriculture, 30th Annual Convention of the Philippine Society of Agricultural Engineers.

Lantin, R. M. (1980 Ag 15-16). A Plan for the Engineering Sciences at the University of the Philippines Los Baños, Concept paper presented at the UPLB Third Policy Workshop.

Lantin, R. M. (1978 S 18-24). Present Status and Development Program of Agricultural Mechanization in the Philippines, Seminar on Mechanization for Small Farms. Asia Pacific Food and Fertilizer Technology Center, Taipei, Taiwan, China.

Lantin, R. M. (1978 O). The Agricultural Mechanization Development Program, Philippine Society of Agricultural Engineers Symposium on Agricultural Mechanization and Structures.

Lantin, R. M. (1978 Ag). Tillage Equipment and Practices for Upland Crops, National Food Authority Seminar on Feedgrains and By-products.

Lantin, R. M. (1976 O 26-28). Strategies for the Development of the Farm Machinery Industry and Agricultural Mechanization in the Philippines, National Economic and Development Authority/Asian Institute of Management Seminar-workshop on the French Economic Planning System.

Lantin, R. M. (1976 D 4-10). The Present Status and Problems of Farm Machinery Research and Development and Education in the Philippines, Asian Productivity Organization Fourth Southeast Asia Seminar on Experiment and Practice in Farm Machinery, Tokyo, Japan.

Lantin, R. M. (1974). Design of a Rice Stripper Using a Transverse-moving Belt, Annual Convention of the Philippine Society of Agricultural Engineer.

Lantin, R. M. (1973 N). Small Machinery Development for Soybean Production, Philippine Council for Agriculture and Resources Research First National Agricultural System Congress.

Lantin, R. M. (1973 Ap 26). The Research and Development Program for Farm Mechanization at the University of the Philippines at Los Baños, Annual Convention of the Philippine Society of Agricultural Engineers.

Publications

2004 Lantin, R.M. Precision agriculture: Integrated engineering innovations for hybrid rice production system. The Philippine Agricultural Mechanization Bulletin, AMDP/CEAT publication , 2004, 10(2).

2003 Lantin, R.M., Larona, M.V.L., Amongo, R.M.C. Land consolidation efforts for corn farms in the Philippines. Philippine Agricultural Mechanization Bulletin, AMDP/CEAT publication, 2003, 10(2):3-22.

Lantin, R.M., Araya, A. Comprehensive assessment of the agricultural machinery industry system (AMIS) in Eritrea. Technical Report submitted to UNIDO on the Integrated Project to Develop the Agricultural Machinery and Tools Industry, ER/01/012/A/01/99 and DG/ERI/01/012/11-01 for the Government of the State of Eritrea

by UNIDO, Vienna, 2003.

- 2001 Lantin, R.M., Woldeyes, T., Teferi, M. Formulation of policy and programme for a National Rural Technology Centre (NRTC) at Basic Metals and Engineering Industries Agency (BMEIA), US/ETH/99/129. Technical report prepared for the Government of the Federal Republic of Ethiopia by UNIDO, Vienna, 2001.
- Lantin, R.M. Modernizing rural infrastructures for mechanization of lowland rice production. The Philippine Agricultural Mechanization Bulletin, Third Quarter, AMDP/CEAT publication , 2001, 10(2).
- 1997 Lantin, R. M. Micro-industry/enterprise development in Oudomsay Province, Lao PDR. Report on Pilot Project on participatory planning for rural infrastructure under Reorientation of the Transport and Communications Programme RAS/92/038, ESCAP, Bangkok, Thailand, 1997.
- 1996 Lantin, R. M. Compendium on rice postharvest. Paper submitted to FAO, Rome, 1996.
- 1995 Lantin, R.M., Paita, B.L., Manaligod, H.T. Revisiting Sundrying of Grain: Widely Adopted but Technologically Neglected. In: Grain Drying in Asia, Proceedings of an International Conference, the FAO Regional Office for Asia and the Pacific, Bangkok, Thailand, (B. R. Champ and G. L. Johnson, eds.) Australian Centre for International Agricultural Research (ACIAR), 1995 O 17-20.
- 1995 Pasikatan, M.C., Manaligod, H.T., Paita, B.L., Lantin, R. M. Re-engineering for a brown rice-based post-harvest system. The Philippine Agriculturist, 1995 JI-D, 78(3-4):241-254.
- 1981 Lantin, R.M. Agricultural mechanization policies to improve farming endeavors. Modern Agriculture and Industry, Asia, 1981 My, 9(5).
- Lantin, R. M. Priority research areas in Agricultural Engineering . Philippine Agricultural Engineering Journal, 1981 Ap-Je, 12(2).
- Lantin, R. M. and Sanchez, P. C. Alcohol from nipa and cassava - a cottage industry to provide engine fuel in farming and fishing communities. Popular article in Modern Agriculture and Industry, Asia, 1981 Ag.
- 1980 Lantin, R. M. and Sanchez, P. C. The production of fuel alcohol as a cottage industry. Philippine Agricultural Engineering Journal, 1980 Ja-Mr, 11(1).
- 1978 Lantin, R. M. Present status and development program of agricultural mechanization in the Philippines. Philippine Agricultural Engineering Journal, 1978 S 18-24, 9(3).
- 1973 Lantin, R. M. A program of farm mechanization in the Philippines. The Philippine Agricultural Engineering Journal, 1973.
- 1972 Lantin, R. M. Farm mechanization plus good management pay. Agricultural and Industrial Life, 1972 My.
- 1971 Lantin, R. M. The present problems and the future of Agricultural Mechanization in the Philippines. Agricultural mechanization in Asia, Maiden issue, Spring, 1971.
- 1970 Lantin, R.M. Land preparation for wetland rice. Rice Production Manual, University of the Philippines Los Baños, 1970.
- 1969 Lantin, R.M. Land preparation equipment and tillage practices for rice production . Rice Production Manual, Revised edition, University of the Philippines College of Agriculture , 1969.
- 1968 Lantin, R. M. A similitude study of the draft of moldboard plows working submerged soils

. PhD Thesis, Iowa State University, Ames, Iowa, USA , 1968.

1964 Lantin, R. M. Bioenergetical study of the Philippine work animal while pulling loads. MS Thesis, University of the Philippines Los Baños, College, Laguna, 1964.

Name **Antonio E. Lim Jr.**

Organizational Affiliations

Dean of College, St. Scholastica's College of Health Science, Sta Cruz St., 6500, Tacloban City

Fields of Specialization

Biological Sciences

Microbiology

Employment

Consultant for Microbiology and Research, Divine World Hospital, Tacloban City, 2007

Reviewer/Evaluator of Health Research Proposal, Regional Health Research and Development Committee RHRDC-VIII, Govt. Center, Palo, Leyte, 2007

Regional Assessor, Institutional Monitoring and Evaluation for Quality Assurance in Higher Education, Commission on Higher Education, Region VIII, 2007

Trainer and Resource Person, Preparation of Research Project, Dept. of Education, Region VIII, 2007

Consultant for Microbiology and Research, Divine Word Hospital, 2005

Association Membership

Chairman, Board of Judges, Intel Philippine Science Fair Competition, DOST VIII & Dept of Educ. VIII

Member, National Research Council of the Philippines (NRCP)

Honors / Awards

Fellow, Philippine Academic Society for Microbiology and Parasitology (PASMAMP) 2007 N 28

1st Place for the Research Paper : Acinetobacter: An emerging New pathogen at Devine Word Hosp., Leyte Medical Society-EVRMC 2003 F 23

Trainings

Faculty Research Presentation, St. Scholastica's College of Health Sciences, Tacloban City 2003 D 17

33rd Annual Convention of the PASMETH, Villa La Maja Hotel, Baguio City 2003 Ap 24-25

Seminar on Enhancing Individual research capability Towards the Development of Research Culture, LIT and REDIT, VicMar Resort, Tacloban City 2003 Ap 2-3

Annual Convention of the Philippine Society of Parasitology, Quezon City 2002 Ap 27-

Researches

Completed

Intestinal Parasitism Among Residents' from Selected Barangays in the Philippines

Hemoglobin level and body mass index among children ages 2-5 years old from

rural and urban barangays in Leyte

Occurrence of Hepatitis.B surface antigen in candidate blood donors of the Philippine National Red Cross and Divine Word Hospital

Updates on the immune response to *Schistosoma japonicum* candidate vaccines

Prevalence of pinworm (*Enterobius vermicularis*) parasitism among elementary pupils in a government and private school in Tacloban City

First Report of Human Parasitism Due to *Capillaria philippinensis* in Northern Leyte. *SSCHS Journal, A Research Journal of Biology, Health and Human Behavior* 1:35-41

Acinotobacter: An Emerging New Pathogen at Divine World Hospital, Tacloban City

Knowledge, Attitudes, and Practices of Physicians Towards the Directly Observed Treatment Short-Course (DOTS) in Region VIII

Beliefs and Practices of Mothers on Non-Prescribed Medication for Common Ailments and Infectious Among Pediatric Patients Admitted at the Divine Word Hospital, Tacloban City

Hemolytic Activity of *Escherichia coli* Strains Isolated from Patients in Tacloban City

On-going

Profile of Stable Chronic Obstructive Pulmonary Disease Patients Seen at Divine World Hospital

Occurrence of measles among previously immunized children admitted at Divine Word Hospital: A 5-Year Retrospective Study

Isolation of soil fungi in Region VIII with potential pathogenicity to humans

Occurrence of *Cryptosporidium* Oocysts in Human Fecal Samples from Selected Barangays in Metro Tacloban, Leyte

Sensitivity and Resistance Patterns of *Staphylococcus aureus*, *Pseudomonas aeruginosa* and *Escherichia coli* and Clinical Isolates Against Guava (*Psidium guajava* Linn.) Leaf Extracts

Papers Presented

Galapon, E.R., Centina, N.J.E., Coquilla, M.F.C., Elnas, N.D., Mendoza, H.D., Montes, J.M.A., Uy, M.C.M., Lim, A.E.Jr. (2007 S 6). Effect of a Handwashing of Selected Food Handlers in Tacloban City, Regional Consultative Forum on the Role of HEIs in Health Research, Visayas State University, Baybay City.

Lim, A.E. Jr. (2007 S 28). Molecular Biology Research Applications in Solving Some Bio-medical and Environmental Problems, 9th Founding Anniversary Celebration of the Leyte Science and Technology Foundation Inc., SMED Center, Tacloban City.

Lim, A.E.Jr. (2007 S 26). Improving Nursing Services Through Nursing Research, Seminar on Current Trends in Nursing Research, St. Scholastica College of Health and Sciences, Tacloban City.

Lim, A.E. Jr. (2007 O 24-27). Research Utilization in Higher Education Institution for Health Sciences in the Philippines, International Conference on Research in Higher Education Institutions, Waterfront Hotel, Cebu City.

Lim, A.E. Jr. (2007 N 28-30). Molecules, Microorganisms and Medical Technology Research, 43rd Annual National Convention, Philippine Association of Medical

Technologists, Manila Hotel.

Lim, A.E. Jr. (2007 D 13). New Basics in Medical Mycology and Fungal Diseases, Philippine Association of Medical Technologists, Eastern Visayas Chapter, Annual Regional Convention and 23rd Scientific Meeting held at the Ritz Tower de Leyte.

Lim, A.E. Jr. (2007 Ag 7). The Professional Biochemist and Molecular Biologist., Philippine Science High School, Eastern Visayas Campus.

Lim, A.E. Jr. (2005 D 14). Hookworm parasitism among patients of Divine Word Hospital, Tacloban City, 4th Annual Faculty Research Presentation, St. Scholastica's College of Health Sciences.

Lim A.E. Jr. (2005 Ag 22-27). Ten Years After Vrije Universiteit Brussel-Tropica Molecular Biology: Achievements, Constraints and Future Directions in the Philippines, VUB-IPMB Alumni Follow-up Meeting, Vrije Universiteit Brussel, Belgium.

Lim, A. Jr. (2001 N 28-29). Conservation Issues in some Countries in the Asia and the Pacific: Implications to Curriculum Development, Bangkok, Thailand.

Publications

Lim, A.E. Jr. Emerging Infectious Disease and the Practice of Medical Technology. The Philippines Journal of Medical Technology, In press.

2005 Lim, A.E. Jr. Learning science (commentary). Leyte - Samar Daily Express, 2005 S 30:5 & 12.

2005 Lim, A.E. Jr. September is National Science Club Month (commentary). Leyte-Samar Daily Express, 2005 S 19:p.5.

2005 Lim, E.A. Jr. Publication of local researches (commentary). Leyte - Samar Daily Express, 2005 O 6:5 and 12.

2005 Lim, A.E. Jr. Worms and children (commentary).. Leyte - Samar Daily Express, 2005 O 24:p.5.

2005 Lim, E.A. Jr. Let us DOTS it (commentary). Leyte - Samar Daily Express, 2005 O 11:5-8.

2005 Lim, A.E. Jr. Directly Observed Treatment Short Course (DOTS) Syllabus Integration in the Allied Health Professional Schools Initiative - Medical Technology Modules; Module I - Tuberculosis as a Global and National Burden. Philippine Tuberculosis Initiatives for the Private Sector Project (USAID), 2005:19 pp.

Lim, A.E.Jr. Individual and Small Group Activities for Learning Immunology: An Instructional Guide. St. Scholastica's College of Health Sciences-Tacloban, 2005:45 pp..

2003 Lim, A. E. Voluntary blood donation: What do some government employees think about it?. PAMET Journal, 2003.

Lim A.E. Production and characterization of rabbit polyclonal antibodies against the major outer membrane proteins of pseudomonas aeruginosa. RTRMF Journal, 2003.

Lim. A.E. Hematological characteristics of human blood containing Artemisia vulgaris Linn. (Damong Maria)leaf extract as anticoagulant. RTRMF Journal, 2003.

- Lim, E.A. Laboratory Manual in Microbiology for Nursing Students. St. Scholastica's College of Health Sciences, Tacloban City, 2003:60 pp..
- 2002 Lim, A.E. Jr., Alquiza, L.M. Human leptospirosis: Updates and insights from a Southeast Asian Regional Conference. RTRMF Journal, 2002, 2(1):77-85.
- Lim, A. Jr. Conservation Issues in some Countries in the Asia and the Pacific: Implications to Curriculum Development. New Vision, 2002.
- Dingcong, J., Astillo, J., Catalon, S., Compas, B., Jaoso, Obiena, D., Blas, B., Lim, A.E. Jr., Reyes,E., Guevarra, J. Detection of Coliform Bacteria in Rair Water in Metro Tacloban. RTRMF Journal, 2002, 2(1):13-17.
- 2001 Lim, A.E. Jr. Productivity in Knowledge-based Economy: Some Implications in Social Science Research. Research Journal, 2001.
- Lim, E.A. Jr. Herbal plants as medicine (commentary). Leyte - Samar Daily Express, N 7:5.
- Abueva, N.C., Lim, A.E. Jr., Blas, B.L., Reyes, E., Palomino, M.L.P. Human Intestinal Capillaria philippinensis Infection in Northern Leyte, Philippines. Proceedings from the Annual Convention of the Philippine Society of Parasitology, Quezon City, 2002 Ap 27:3-4.

Name **Gil L. Magsino**

Organizational Affiliations

University Researcher III & Research-Faculty, NCPC-CPC, UPLB, College, Laguna

Education

Ph.D. in Weed Science, University of the Philippines at Los Baños, College, Laguna 1995

Fields of Specialization

Agronomy-Weed Science

Integrated Nutrient Management

Participatory Training and Community Based Project Development

Fertilizer and Pesticide Farm Safety Stewardship

Integrated Pest Management

Ecology

Fertilizer and Pesticide Registration and Licensing System

Sustainable Agriculture (Farmer-Scientist Program)

Crop Production and Management

Employment

University Researcher III, NCPC-Crop Protection Cluster-CA, UPLB, 1998 My-present-

Deputy Director, NCPC-CA, UPLB, 1999 S-2000 D-

Technical Coordinator, FMC International South East Asia, 2001 Ja-2002 D-

Division Chief, Fertilizer and Pesticide Authority, -

University Researcher II, NCPC-CA, UPLB, 1989 JI-1996 Je-

University Researcher I, NCPC-CA, UPLB, 1986 JI-1989 Je-

Senior Research Assistant, NCPC-CA, UPLB, 1985 Ag-1986 Je-

Research Assistant, NCPC-CA, UPLB, 1979I-1985-

Association Membership

President, Pest Management Council of the Philippines

Board Member, Weed Science Society of the Philippines

Board Member, Philippine Association of Agriculturist

member, Sigma Delta Honor Society

Honors / Awards

Best Research Paper Award in Weed Science, WSSP 2009 My

2007-2008 PMCP Pest Management Award in Extension and Community

Development, PMCP 2008 My 9

Nelia T. Gonzales Award of Excellence for Outstanding Extension Program, UPLB-CA 2007 Mr

UPLB Outstanding Extension Project, UPLB 2007 Mr

CA Outstanding Extension Project, UPLB-CA 2004 Mr

Marcos R. Vega Memorial Award: Field of Extension and Training, PMCP 2001 My

Outstanding Extension Team Award, NCPC-CA 2000

Best Research Paper Award in Weed Science, PMCP 1987 My 8

Best Research Paper Award in Weed Science, PMCP 1994 My 10

Outstanding Extension Award, NCPC-CA 1994 My

Achievement Award in Extension: Farmer Scientist Partnership for Sustainable Agriculture, Foundation of Crop Science Societies of the Philippines 1997 My 28

Trainings

Training Seminar & Symposium for Agricultural Exterminators, Gen. Santos City 2009 JI 21-24

Training Seminar & Symposium for Agricultural Exterminators, Davao City 2008 My 27-30

Training Seminar & Symposium for Agricultural Exterminators, Gen. Santos City 2008 Je 24-27

Training Seminar & Symposium for Agricultural Exterminators, Gen. Santos City 2008 J 24-27

BPI-PQS (Quarantine) Personnel Training, IPB, UPLB 2007 Je 7

PAPDA Training for FPA Certification of Agriculturist, Davao City 2007 Ap 27

IPM & Weed Management Licensing Seminar of Certified Pesticide Applicators, Davao City 2006 Ap 4-6

Season-long Corn Specialist Training, Sarangani 2006 Ap 17-18

Res. person - PMCP Foundation & FPA Training, CEC, UPLB 2005 D 7

Lakas Magsasaka Segment - GMA 7, Channel 7, Quezon City 2004 My

Weed Control & Current Development among Technical Staff of Bayer Crop Science, Davao, Bacolod and Tagaytay 2004 Ap

Nutrient Management/Soil Analysis among farmers/crop members of DAR-ARISP II areas, 2004 Ag-S

Responsible Handling of termiticides among UPLB Bldg. Administrators, CEC, UPLB 2004 Ag 6

Rice-based Technology Adoption Facilitation Training, Los Baños, Laguna 2003 S 30-O 7

Rice-based Technology Adoption Facilitation Training, Los Baños, Laguna 2003 S 30-O 7

DAR-ARISP II Volunteerism Project Development among ARC's, 2003 O-2005 Mr

Comprehensive Education Program of Tagbanua Communities, Calamian, Northern Palawan 2003 O 18-26

Agri 1999 Colloquium in Agriculture, DAERS, UPLB 2003 JI 28

Res. person - Agriculture Licensure Board Exam, Bacolod City 2003 Je 2-8

Agriculture Licensure Board Exam, Malate, Manila 2003 Je 1

Licensure Seminar of Certified Pesticide Applicators in the Agricultural Category, Davao City 2003 F 18-21

Efficacy of Termiticides, Davao City 2003 D

Organic Fertilizer Production, UPLB Ugnayan ng Pahinungod 2003 Ap 5

Weeds of Quarantine Importance, NCPC-UPLB 2003 Ap 21-26

Total Crop Management Training, Bacolod City 2002 JI 24

Refresher Course for Pests & Disease Diagnosis & Management in Rice, Corn, Vegetables & Mango, NCPC, UPLB 1999-present

International IPM Course in Rice, NCPC, UPLB 1998-2000

FPA Registration Officer Training, FPA, Quezon City 1998 Mr

FPA's Researcher Accreditation Training, FPA, Quezon City 1998 Je 18-19

Sa Kabukiran Channel 2, Quezon City 1998 Ap

International Meeting and Training on Herbicide Resistance, Kyungpook National University, Republic of Korea 1998

FPA's Researcher Accreditation Training, Quezon City 1997 S

PCO-CPA Training, Dept. of Entomology, UPLB 1997 My & Ag

Consultative Workshop on Gintong Ani Program, FPA-DA-NCPC-UPLB 1997

FPA-WSSP-APPA Accreditation Training for Agricultural Graduates, Iloilo City 1996 F

Job Enhancement Program series, PHILRICE, Munoz, Nueva Ecija 1995 S

Specialized Course in Research Methodology on IPM, NTC-ATI, UPLB 1995 O

IPM Prosperity through rice production, NTC-ATI, UPLB 1995 O

IPM on Agri Siete, Channel 7, Quezon City 1995 My

GAUF Faculty & Academic Staff Enhancement Research Program, GAUF, Malabon, Metro Manila 1995 JI

Sustainable Agriculture in Radio DZJO, Infanta, Quezon 1995 Ag

Weed Control Mgt. in Vegetables, UPLB 1995 Ag

Weed Control Component in the International IPM Program in rice, IRRI-PHILRICE-NCPC-UPLB 1995

Weed Management in Vegetables, Dept. of Horticulture, UPLB 1994 My

Trainor's Training on Eskwelahan sa Talamnan, Pontevedra, Neg. Occ. 1994 Mr 18

IPM Technology for Marinduque Farmers, NTC-ATI, UPLB 1994 JI

Sustainable Agriculture Training Program, NTC-ATI, UPLB 1994 Je 14

Sustainable Agriculture Training Program, NTC-ATI, UPLB 1994 Je 14

Pagsasanay sa Pagpapaunlad ng Palayan, NTC-ATI, UPLB 1994 Je

Pampamayanang Pagsasanay sa Likas kayang Pagsasaka, Infanta, Quezon 1994 Ap 22

Herbicide Collaboration & Proper Application for Rohm and Haas Technical Personnel, NCPC-UPLB 1994 Ag

IPM Training Course for Mindoro Agricultural Technologists, NCPC-UPLB 1993 My 10-11

Technology & Instructional Delivery Enhancement Course for Vegetable Garden Teachers, Dept. of Horticulture, UPLB 1992 My 18-19

Training Course on Managing Area-based Agricultural and Rural Development Program, NTC-UPLB 1991 Ap 29-My 4

IPM during the Package of Applicable Technology for Rice Production Training Seminar, NTC-UPLB 1990 S 24-28

IRRI Weed Control Training, IRRI, Los Baños 1990 S

Weed Control Management in Citrus for Vietnamese Nationals, NTC-UPLB 1990 JI

Principles of Weed Science among Ethiopian Agriculturists, NCPC, UPLB 1989 My

Herbicide Application - Course on Agronomic Crop Production for Indonesians, Department of Agronomy, UPLB 1988 O

Coordinator-Training on the Implementation of SAPREM, NCPC-UPLB-PhilRice 1984-present

Trainer's Training for FSSRI Regional Training Program, FSSRI, UPLB 1984 My

Trainer's Training for URARTIP Regional Training Program, Dept. of Agronomy, UPLB 1980 My

Researches

Completed

Weed management in vegetable crops in the Philippines

Profile of Stable Chronic Obstructive Pulmonary Disease Patients Seen at Divine World Hospital

Occurrence of measles among previously immunized children admitted at Divine Word Hospital: A 5-Year Retrospective Study

Isolation of soil fungi in Region VIII with potential pathogenicity to humans

Occurrence of *Cryptosporidium* Oocysts in Human Fecal Samples from Selected Barangays in Metro Tacloban, Leyte

Sensitivity and Resistance Patterns of *Staphylococcus aureus*, *Pseudomonas aeruginosa* and *Escherichia coli* and Clinical Isolates Against Guava (*Psidium guajava* Linn.) Leaf Extracts

Field evaluation of chemical and physical methods of weed control in transplanted bulb onions

Recommended weed control approaches in transplanted tomatoes

Field evaluation of weed control approaches in white potato (*Solanum tuberosum* L.)

Weed control in bush sitao (*Vigna unguiculata* x *V. Sesquipedales*)

Post emergence and weed control in soybean (*Glycine max.* (L.Merill) with Fluazipop butyl and influence of surfactant on the herbicidal activity

Development and implementation of IPM systems in transplanted irrigated rice

Influence of weed vegetation on the population dynamics of the Asian Corn Borer, *Ostrinia furnacalis* Guenee

Use of fluazipop butyl for the control of *Rottboellia exaltata* in Soybean (*Glycine Max.*)

Rate and time of Butachlor application in direct seeded rice

Development of Practical weed control indicators in direct seeded rice

Efficacy of Clamazone + Propanil in lowland direct seeded rice

Benefits of using paraquat in reduced tillage technology in rice

Empowering Filipino Farmers through Participatory and Community-based Agricultural Research and Extension Model(SAPREM)

On-going

IPM Eggplant

Sagip-Lupa: Soil Conservation Technology and Weed Management (2 year study)

Papers Presented

Magsino, G. L. and Baltazar, A.M. (2009). Weeds and Global Warming, PMCP, Baguio City.

Magsino, G. L. (2009). Sagip-Lupa: Soil Conservation and Weed Management Approach in Coping with the Changing Environment, PMCP, Baguio City.

Magsino, G.L. (2008). Native & Emerging Weed Species: Concerns and Status in the Philippines, International Seminar on Management of Major Plant Pests in Agriculture in the Asian and Pacific Regions, Taipei, Taiwan.

Magsino, G. L. (2008). The Role of Paraquat in Soil Conservation in Highland Vegetables, PMCP, Puerto Princesa, Palawan.

Magsino, G. L. (2008). Herbicide Performance of Glyphosphate-Formulation, Volume Rate and Rainfastness, PMCP, Puerto Princesa, Palawan.

Magsino, G. L. (2008). A Novel Formulation of Paraquat: Its Efficacy for Conservation Tillage and Weed Management in Corn, PMCP, Puerto Princesa, Palawan.

Magsino, G. L. (2007). Sagip-Lupa: Soil Conservation Technology and Weed Management (2-year study), PMCP, Bohol City.

Magsino, G. L. (2007). Field Evaluation of the Performance of Gramoxone 20 SL as Part of Reduce Tillage in Hybrid Rice, PMCP, Bohol City.

Magsino, G. L. (2006). Sagip-Lupa: Soil Conservation Project in Batangas and Quezon, National Scientific Convention, ACTETSME, UPLB.

Magsino, G. L. (2006). Sagip-Lupa: Soil Conservation Technology (1st year study),

PMCP, Davao City.

Magsino, G. L. (2002). Benefits of Using Paraquat in Reduce Tillage Technology in Rice, PMCP, Iloilo City.

Magsino, G. L. (2001). Efficacy of Clamazone + Propanil in Lowland Direct Seeded Rice, PMCP, Davao City.

Magsino, G.L. (1998). Usage and Regulations Governing Herbicide in the Philippines, International Meeting and Training on Herbicide Resistance, Kyungpook National University, Republic of Korea.

Magsino, G. L. (1998). Agro-Ecology: Determinants and Resources, Family Garden Project Initiator's Training Workshop - UPLB; Cagayan de Oro; Tacloban; Lucena,Quezon; Pangasinan; Cagayan Valley; Bacolod.

Magsino, G.L. (1997). Philippine Pesticide Regulation: Current Status and Future Prospects, Regional Workshop on Use of Nuclear Techniques Studies of Agriculture with emphasis on Transport and Fate of Pesticide in Eco-environment, Beijing, China.

Magsino, G. L. (2008). A Novel Formulation of Paraquat: Its Efficacy for Conservation Tillage and Weed Management in Corn, PMCP, Puerto Princesa, Palawan.

Magsino, G. L. (2007). Sagip-Lupa: Soil Conservation Technology and Weed Management (2-year study), PMCP, Bohol City.

Magsino, G. L. (2007). Field Evaluation of the Performance of Gramoxone 20 SL as Part of Reduce Tillage in Hybrid Rice, PMCP, Bohol City.

Magsino, G. L. (2006). Sagip-Lupa: Soil Conservation Project in Batangas and Quezon, National Scientific Convention, ACTETSME, UPLB.

Magsino, G. L. (2006). Sagip-Lupa: Soil Conservation Technology (1st year study), PMCP, Davao City.

Magsino, G. L. (2002). Benefits of Using Paraquat in Reduce Tillage Technology in Rice, PMCP, Iloilo City.

Magsino, G. L. (2001). Efficacy of Clamazone + Propanil in Lowland Direct Seeded Rice, PMCP, Davao City.

Magsino, G.L. (1998). Usage and Regulations Governing Herbicide in the Philippines, International Meeting and Training on Herbicide Resistance, Kyungpook National University, Republic of Korea.

Magsino, G. L. (1998). Agro-Ecology: Determinants and Resources, Family Garden Project Initiator's Training Workshop - UPLB; Cagayan de Oro; Tacloban; Lucena,Quezon; Pangasinan; Cagayan Valley; Bacolod.

Magsino, G.L. (1997). Philippine Pesticide Regulation: Current Status and Future Prospects, Regional Workshop on Use of Nuclear Techniques Studies of Agriculture with emphasis on Transport and Fate of Pesticide in Eco-environment, Beijing, China.

Magsino, G.L. (1995). Influence of Weed Vegetation on the Population Dynamics of the Asian Corn Borer (*Ostrinia furnacalis* Guenee), PMCP 26th Annual Conference, Davao City.

Magsino, G. L. (1994). Rate & Time of Butachlor Application in Direct Seeded Rice, PCCP 24th Annual Conference, Cagayan de Oro City.

Magsino, G. L. (1991 Ap 29-My 4). Training Course on Managing Area-based

Agricultural and Rural Development Program, NTC-UPLB.

Magsino, G.L. (1985). Use of Fluazipop Butyl for the Control of *Rottboellia exaltata* in Soybean (*Glycine max.*), PCCP 16th Annual Conference, La Trinidad, Benguet.

Magsino, G.L. (1982). Field Evaluation of Chemical and Physical Methods of Weed Control in Transplanted Bulb Onion, PCCP 12th Annual Conference, Manila.

Publications

- 2008 Magsino, G. L. Rice black bug infests Laguna. RDE Digest, 2008, 1(1).
- 1996 Medina, M.J.B., Calumpang, S.M.F., Medina, J.R., Magsino, G.L. Screening of selected Philippine plants for herbicidal activity with emphasis on *Coccinea grandis* L. Voight. Philippine Agriculturist, 1996, 77(4-5).
- Medina, J.R., Bariuan, J.V., Peralta, G.A., Zorilla, R.A., Hautea, R.A. Sustainable Agriculture Program: Farmer-Scientist initiated on farm research in crop protection and health. Journal of Pesticide Science, 1996, 21:136-140.
- 1995 Medina, M.J.B., Calumpang, S.M.F., Medina, J.R. Inhibition of cucumber, corn and rice and roots by selected plant extracts. Philippine Agriculturist, 1995, 78(2):129-136.
- 1990 Paller, E.C., Magsino, G.L. Weed management in vegetable crops in the Philippines. Weed Management Biotrop Spec. Publ., 1990, 38:215-227.
- 1985 Robles, R.P., Magsino, G.L. Use of Fluazipop butyl for the control of *Rottboellia exaltata* in Soybean (*Glycine Max.*). Philippine Journal of Weed Science, 1985, 12:69.

Name **Filipinas F. Natividad**

Organizational Affiliations

Assistant Vice President and Director, Research and Biotechnology Division, St. Luke's Medical Center, 279 E. Rodriguez Sr. Blvd, Cathedral Heights, Quezon City

Fields of Specialization

Biological Sciences

Honors / Awards

Award of Appreciation, FETP 2007 S 17

Second Prize, 2nd UPV Graduate Research Conference 2007 D 15

Second Prize, Resident's Research Forum, 59th Philippine Orthopedic Annual Convention 2007 N 22-25

Trainings

Joint International Tropical Medicine Meeting 2007, Imperial Queen's Park Hotel, Bangkok, Thailand 2007 N 29-30

Residents' Research Forum, 59th Philippine Orthopedic Association Annual Convention, EDSA Shangri-la Hotel 2007 N 22-25

Philippine Clinical Research Professionals (PRCP) 2007 General Assembly and Board of Directors (BOD), Bayanihan Hall, United Laboratories, Mandaluyong City 2007 My 28

Gastric Cancer Symposium, Annual Scientific Meeting, St. Luke's Medical Center Department of Surgery, St. Luke's Medical Center 2007 Mr 19-20

6th European Cytogenetics Conference, Istanbul, Turkey 2007 JI 7-10

3rd Asian Regional Dengue Research Network Meeting, Grand Hotel, Taipei, Taiwan 2007 Ag 21-24

53rd Annual Conference of the Japan Association for Laboratory Animal Science (JALAS), Kobe, Japan 2006 My 1-13

Researches

Completed

Resistance of helicobacter. pylori to clarithromycin in the new millennium: Does it exist?

Monoclonal antibody production against parasitic amoebae

On-going

Helicobacter pylori genotyping in gastric adenocarcinoma and malt lymphoma by PCR analysis of paraffin embedded wax tissue.denocarcinoma

Isolation, culture and molecular typing of Helicobacter pylori from gastric biopsy and saliva

Optimization process for the large-scale production of dengue viral antigens for the laboratory surveillance of dengue infection

Myocardial infarc and heart failure in the non-human primate

Clinical study: The mechanism of thrombocytopenia and increased vascular permeability in dengue virus infection

Treatment with high dose intravenous immunoglobulin for thrombocytopenia in patient with acute dengue virus infection

Prevalence and genotypic diversity of enteric protozoa (i.e. *Giardia* and *Cryptosporidium*) isolated from the Philippines

Helicobacter pylori infection: Strain diversity and host response

Papers Presented

Baclig, M.O., Daroy, M.L.G., Aba, J.M.R., Natividad, F.F. (2007 N 29-30). Molecular Diagnosis of Acute Retinal Necrosis Secondary to Cytomegalovirus in Vitreous fluid: A Case Report, Joint International Tropical Medicine Meeting 2007. Imperial Queen's Park Hotel, Bangkok, Thailand.

Moreno, M.M.N II, Miyagi, K., Natividad, F.F (2007 N 29-30). Uncommon cause of flaccid paralysis in a 14-year old Filipino, Imperial Queen's Park Hotel, Bangkok, Thailand.

Predicala, R.Z., Rivera, M.M., Bocobo, J.C., Mapua, C.A., Matias, R.R., Natividad, F.F., Cervantes, J.G. (2007 N 29-30). Identification of Hepatitis B Virus Genotypes in the Filipino Population using Restriction Fragment Length Polymorphisms, Imperial Queen's Park Hotel, Bangkok, Thailand.

Natividad, F.F (2007 N 29-30). Molecular Characterization of *Cryptosporidium* from Stools of Filipino Children with diarrhea, Imperial Queen's Park Hotel, Bangkok, Thailand.

Belen, M.A., Tabberrah, A.J., Tanchuling, A.N., Natividad, F.F., De Guzman, B.B., Fajardo, L., Casingal, C., Mapua, C. (2007 N 22-25). Microbiological Inhibitory Characteristics of Antibiotic Laden Cement Sticks: An In-Vitro Study-Final Results, Residents' Research Forum, 59th Philippine Orthopedic Association Annual Convention. EDSA Shangri-la Hotel.

Tanig, C.Z, Alonzo, M.T.G, Suarez, L.A.C, Alfon, J .A.R., Daroy, M.L.G, Matias, R.R., Natividad, F.F. (2007 My 7-8). Development of a Cell-based In Vitro System for the Large-scale Production of a Tetravalent Dengue Antigen Reagent, 36th Annual Convention and Scientific Meeting of the Philippine Society for Microbiology, Inc. (PSM), CSB International Conference Center and Hotel, Malate, Manila.

Natividad, F.F. (2007 My 28). NEC Guidelines , Philippine Clinical Research Professionals (PRCP) 2007 General Assembly and Board of Directors (BOD) Election, Bayanihan Hall, United Laboratories, Mandaluyong City.

Moreno, M.M.N.II, Mirante, R.C., Araga, R.L., Natividad, F.F. (2007 My 18). Biosafety and Biosecurity at the Animal Facility of the Research and Biotechnology Division of St. Luke's Medical Center, 19th Annual Scientific Conference, Philippine Association for Laboratory Animal Science (PALAS), Bayanihan Hall, United Laboratories, Mandaluyong City.

Natividad, F.F. (2007 Mr 19-20). Epidemiology, Pathology and Etiology *H pylori*: What's New?, Gastric Cancer Symposium, Annual Scientific Meeting, St. Luke's Medical Center Department of Surgery, St. Luke's Medical Center, Quezon City.

Enriquez, M.L.D, Abad, M.C, Amante, M.E, Baylon, H, Caguioa, P, Natino, D, Rosales, C, De Villa, E. and Natividad, F.F (2007 JI 7-10). Complex and Composite Karyotypes in Malignant and Neoplastic Diseases in the Philippines, 6th European Cytogenetics Conference, Istanbul, Turkey.

Natividad, F.F., Abad, M.C., Amante, M.E., Baylon, H., Caguioa, P., Natino, D., Rosales,

D., Narciso, C., Enriquez, M.L.D. (2007 JI 7-10). Cytogenetic Monitoring of Patients with Philadelphia Chromosome-positive Chronic Myelogenous Leukemia Treated with Imatinib Mesylate, 6th European Cytogenetics Conference, Istanbul, Turkey.

Baclig, M.O, Gervacio, L. TS, Buerano, C.C, Lo, R.W, Kumatori, A, Inoue, S, Hasebe, F, Morita, K, Matias, R.R and Natividad, F.F (2007 JI 11-12). Monocytes (Cd14+) and B cells (Cd19+) are the Principal Targets of Dengue virus, 29th Annual Scientific Meeting, National Academy of Science and Technology (NAST), Manila Hotel, Manila, Philippines.

Natividad, F.F., Dimamay, M.P.S, Matias, R.R, Gopez Cervantes, J. (2007 Ja 15-16). Gene Expression Profiling of Hepatocellular Carcinoma by cDNA Microarrays among Filipino Patients, 1st St. Luke's International Liver Conference, EDSA Shangri-La Hotel, Mandaluyong City.

Lontok, M.A, Bocobo, I.C, Matias, R.R, Rivera, M.M, Predicala, R.Z, Natividad, F.F and Gopez-Cervantes, J. (2007 Ja 15-16). Clinicopathological Differences of Hepatitis B Genotypes Among Filipino Patients, 1st St. Luke's International Liver Conference, EDSA Shangri-La Hotel, Mandaluyong City.

Matias, R.R, Baclig, M.O, Lozada, X.M.R, Mapua, C.A, Gopez-Cervantes, J. and Natividad, F.F (2007 Ja 15-16). Correlation of GSTMJ and GSTTJ genotypes with liver diseases, 1st St. Luke's International Liver Conference, EDSA Shangri-La Hotel, Mandaluyong City.

Lago, CB, CC Buerano, CA Mapua, LP Samentar, BB de Guzman, EB Seraspe, MJ Formacion and FF Natividad (2007 D 15). Cryptosporidiosis and Associated Risk Factors in Filipino Children with Diarrhea, 2nd UPV Graduate Research Conference, University of the Philippines in the Visayas, Iloilo City.

Moreno, M.M.N II, Araga, R.L, and Natividad, F.F (2007 Ap 17-19). Biosafety Management Process at the Research and Biotechnology Division of St. Luke's Medical Center, Asia Conference on Laboratory Biosafety and Biosecurity, JW Marriott Hotel, Bangkok, Thailand.

Cornista, A.S, Cabreza, V.L, Sanchez, M.O, Quieng, D, Torres, B.C.L, Mapua, C.A, Deang, M.D, Simbul, E, Matias, R, Rico-Mendoza, A, Natividad, F.F (2007 Ag 25). Comparison of in-house Polymerase Chain Reaction of Gastric Aspirate Samples with Lowenstein-Jensen Culture in Determining Pulmonary Tuberculosis in Children, International Union Against Tuberculosis and Lung Diseases 151 Asia Pacific Region (IUA TLD-APR) Conference 2007. Shangri-La Hotel, Kuala Lumpur, Malaysia.

Dimamay, M.P.S., Tan, I.L., Matias, R.R., CC Buerano, C.C., LAC Suarez, L.A.C., Natividad, F.F. (2007 Ag 21-24). Enhanced Detection of Dengue virus in Serum Samples among Filipino Patients using NSJ-targeted Primers, 3rd Asian Regional Dengue Research Network Meeting, Grand Hotel, Taipei, Taiwan.

Alonzo, M.T.G, Inoue, S, Kurosawa, Y., Mapua, C.A, Matias, R.R, Dimaano, E.M, Alera, M.T.P, Saito, M, Oishi, K., Morita, K., Natividad, F.F. (2007 Ag 21-24). Development of IgG Indirect ELISA method for diagnosis of Dengue primary and secondary infection, 3rd Asian Regional Dengue Research Network Meeting. Grand Hotel, Taipei, Taiwan.

Cortes, M.C.C, Cornista, A.S, Torres, B.C.L, Daroy, M.L.G, Mapua, C.A, Deang, M.D, Simbul, E, Matias, R, Rico-Mendoza, A, and Natividad, F.F (2007 Ag 2-5). Detection of *Mycobacterium Tuberculosis* from Extrapulmonary Samples by using Polymerase Chain Reaction, Shangri-La Hotel, Kuala Lumpur, Malaysia.

MPS Dimamay, I Tan, C Bureano, JA Alfon, C Tanig, R Matias, FF Natividad (2006 S 3-5). Quantitation of Dengue 3 Virus in Patient Serum Samples by real time PCR using LuxTM-based Fluorogenic Primers, 9th Asia-Pacific International Molecular Biology

Network (A-IMBN) Conference and 16th Malaysian Society for Molecular Biology and Biotechnology (MSMBB) Scientific Meeting, Legend Hotel, Kuala Lumpur, Malaysia.

Alonzo, M.T.G., Tanig, C.Z., Daroy, M.L.G., Matias, R.R., Natividad, F.F. (2006 S 3-5). Monitoring Dengue Antigen Production by Sandwich ELISA and Immunofluorescence Assay, 9th Asia-Pacific International Molecular Biology Network (AIMBN) Conference and 16th Malaysian Society for Molecular Biology and Biotechnology (MSMBB) Scientific Meeting, Legend Hotel, Kuala Lumpur, Malaysia .

de Guzman, B.B., Juan, M.L.G., Angeles, L.B., Pylori, H., Study Group, Pangilinan, J.A., Natividad, F.F. (2006 S 3-5). *VacA*, *cagA*, and *iceA* Genes: Correlation with Gastrointestinal Diseases in *Helicobacter Pylori* Infection, 9th Asia-Pacific International Molecular Biology Network (A-IMBN) Conference and 16th Malaysian Society for Molecular Biology and Biotechnology (MSMBB) Scientific Meeting, Legend Hotel, Kuala Lumpur, Malaysia .

Evidente, V.G., Santiago, J., Fugoso, L., Natividad, F.F. (2006 O 28-N 2). Fluorine-18-Fluorodeoxyglucose Positron Emission Tomography (FDG-PET) Brain Imaging Findings in Symptomatic and Asymptomatic Carriers of X-linked Dystonia Parkinsonism ("Lubag"), The Movement Disorders Society's 10th International Congress of Parkinson's Disease and Movement Disorders, Kyoto, Japan .

Lontok, M.A, de Guzman, B.B, Juan, M.L.G, Pangilinan, J.A, St. Luke's H. pylori and Natividad, F.F (2006 N 12-14). Determination of *Helicobacter Pylori VacA* Genotypes and *Caga* Gene from Gastric Biopsy Samples in a Special Pylori Test Paper, 6th Western Pacific *Helicobacter* Congress Plaza Athenee, Bangkok, Thailand.

Natividad, F.F. et al. (2006 My 4). Pharmacokinetics and Toxicity of Anti-viral Drug SLMC02-01 on Weanling Pigs, 18th Annual Scientific Conference, Philippine Association for Laboratory Animal Science (PALAS), St. Luke's College of Medicine, Quezon City.

Cornista, A.S., Torres, B.C.L., Daroy, M.L.G., Cortes, M.C.C., Matias, R.R., Natividad, F.F. (2006 My 12-13). Polymerase Chain Reaction Detects *Mycobacterium Tuberculosis* from Various Tissue and Organ Biopsies, Fluid Samples and Paraffin Blocks, 5th Asia-Pacific Biotechnology Congress and 35th Annual Convention and Scientific Meeting, Philippine Society for Microbiology, Bohol Tropics, Tagbilaran City, Bohol.

Natividad, F.F. et al. (2006 My 11-13). *Macaca fascicularis* as a Non-Human Primate Model for Cardiovascular Disease, 53rd Annual Conference of the Japan Association for Laboratory Animal Science (JALAS), Kobe, Japan.

Natividad, F.F. et al. (2006 My 1-13). Pharmacokinetics and Toxicity of Anti-viral Drug SLMC02-01 on Weanling Pigs, 53rd Annual Conference of the Japan Association for Laboratory Animal Science (JALAS), Kobe, Japan.

Natividad, F.F. et al. (2006 Ja 31-F 1). Current Situation of Enteric Protozoan Infections in ths: Philippines and Research Needed for Better Control, Malaria and Enteric Protozoan Infections in Southeast Asia, National Institute of Infectious Diseases, Tokyo, Japan.

Natividad, F.F. et al. (2006 Ja 20-21). Genotyping of *Helicobacter pylori* from Filipino Patients with Gastric Carcinoma, 4th Regional Conference of the Asia Pacific Organization of Cancer Prevention (APOCP), Nagoya, Japan.

Publications

2011 Natividad, F.F. Genetic Polymorphism of CYP2D6*10 Gene Among Filipinos. Transactions of the National Academy of Science and Technology. Abstracts of Papers, 2011 JI 13-14, 33(1).

- 2010 Shingo Inoue, Maria T. G. Alonzo, Yae Kurosawa, Cynthia A. Mapua, Joyce D. Reyes, Efren M. Dimaano, Maria Theresa P. Alera, Mariko Saito, Kazunori Oishi, Futoshi Hasebe, Ronald R. Matias, Filipinas F. Natividad Evaluation of a Dengue IgG Indirect Enzyme-Linked Immunosorbent Assay and a Japanese Encephalitis IgG Indirect Enzyme-Linked Immunosorbent Assay for Diagnosis of Secondary Dengue Virus Infection. *Vector-borne and Zoonotic Disease*, 2010, 10(2):143-150.
- Guillermo Posadas-Herrera, Shingo Inoue, Isao Fuke, Yuko Muraki, Cynthia A. Mapua, Afjal Hossain Khan, Maria del Carmen Parquet, Sadao Manabe, Osamu Tanishita, Toyokazu Ishikawa, Filipinas F. Natividad, Yoshinobu Okuno Development and evaluation of a formalin-inactivated West Nile Virus vaccine (WN-VAX) for a human vaccine candidate. *Vaccine*, 2010, 28(50):7939-7946.
- H. Qiu, Y. Zhu, Z. Sun, J. P. Trzeciakowski, M. Gansner, C. Depre, R. R. G. Resuello, F. F. Natividad, W. C. Hunter, G. M. Genin, E. L. Elson, D. E. Vatner Vascular Smooth Muscle Cell Stiffness As a Mechanism for Increase Aortic Stiffness with Aging. *Circulation Research*, 2010, 107(4).
- Kenta Okamoto, Yushirou Endo, Shingo Inoue, Takeshi Nabeshima, Phan Thi Nga, Posadas H. Guillermo, Fuxun Yu, Do Phuong Loan, Bui Minh Trang, Filipinas F. Natividad, Futoshi Hasebe, Kouichi Morita Development of a rapid and comprehensive proteomics-based arboviruses detection system. *Journal of Virological Method*, 2010, 167(1):31-36.
- Maria Celeste C. Cortes, Akiyo Yamakawa, Cristine R. Casingal, Lindsay Sydney N. Fajardo, Ma. Luisa G. Juan, Blanquita B. De Guzman, Edgardo M. Bondoc, Varocha Mahachai, Yukinao Yamazaki, Masaru Yoshida, Hiromu Kutsumi, Filipinas F. Natividad Diversity of cagA gene of Helicobacter pylori strains from patients with gastroduodenal diseases in the Philippines:cagA of Philippine H. pylori. *Fems Immunology and Medical Microbiology*, 2010.
- Maria Celeste C. Cortes, Akiyo Yamakawa, Cristine R. Casingal, Lindsay Sydney N. Fajardo, Ma. Luisa G. Juan, Blanquita B. De Guzman, Edgardo M. Bondoc, Varocha Mahachai, Yukinao Yamazaki, Masaru Yoshida, Hiromu Kutsumi, Filipinas F. Natividad S1657 Characteristics of the cagA Gene of Helicobacter pylori strains From Patients with Gastroduodenal Diseases in the Philippines. *Gastroenterology*, 2010, 138(5):S-247-S-247.
- 2009 Natividad, F.F., Matias, R.R Cloning and Expression of Non-Structural Protein 1 (NS1) of Dengue Serotypes 1 and 2. *Transactions of the National Academy of Science and Technology. Abstracts of Papers*, 2009, 31(1).
- Y.-T. Shen, V. Gaussin, G. R. Heyndrickx, J. Bartunek, R. R. G. Resuello, F. F. Natividad, R. N. Kitsis, D. E. Vatner, S. F. Vatner Apoptosis predominates in nonmyocytes in heart failure. *American Journal of Physiology-heart and Circulatory Physiology*, 2009, 297(2):H785-H791.
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- H. Qiu, C. Depre, K. Ghosh, R. G. Resuello, F. F. Natividad, F. Rossi, A. Peppas, Y.-T. Shen, D. E. Vatner, S. F. Vatner Dengue illness : clinical features and pathogenesis. *Journal of Infection and Chemotherapy*, 2007, 116(6):669-676.
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- distinctive features of the aging male, but not female, monkey heart. *Journal of Molecular and Cellular Cardiology*, 2007, 43(4):487-491.
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- 2006 H. Qiu, B. Tian, R. G. Resuello, F. F. Natividad, A. Peppas, Y.-T. Shen, D. E. Vatner, S. F. Vatner, C. Depre Sex-specific regulation of gene expression in the aging monkey aorta. *Physiological Genomics*, 2006, 29(2):169-180.
- 2005 Natividad, F.F. *Achromobacter xylosoxidans* Endophthalmitis diagnosed by polymerase chain reaction and sequencing. *Ocular Immunology and Inflammation*, 2005, 13:1-5.
- Natividad, F.F. Comparison of clinical features and hematologic abnormalities between dengue fever and dengue hemorrhagic fever among children in the Philippines. *American Journal of Tropical Medicine and Hygiene*, 2005, 73(2):435-440.
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- Natividad, F.F. Smell testing is abnormal in Lubag or X-linked dystonia parkinsonism.. *Parkinsonism and Related Disorders*., 2005, 10:407-410..
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- 2004 Natividad, F.F. Comparison of laboratory-based techniques for the detection of Dengue infections. *St Luke's Journal of Medicine*, 2004, 1(2):62-69.
- Natividad, F.F. Polymerase chain reaction detection of carcinoembryonic antigen (CEA) mRNA in regional lymph nodes of patients with colorectal cancer. *St Luke's Journal of Medicine*, 2004, 1(2):10-18.
- Natividad, F.F. The validity of polymerase chain reaction assay in the detection of *Mycobacterium tuberculosis* in liver biopsies of children. *St Luke's Journal of Medicine*, 2004, 1(2):45-51.
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- 2003 Taylo, E.P., De Guzman, B.B., Paredes, M.C.D.B., Matias, R.R., Natividad,

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- 1997 Inaba, K., Buerano, C.C., Natividad, F.F., Morisawa, M. Degradation of Vitellogenins by 170 kDa Trypsin-Like Protease in the Plasma of the Tilapia *Oreochromis niloticus*. *Comparative Biochemistry and Physiology Part B: Biochemistry and Molecular Biology*, 1997, 118(1):85-90.
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- 1991 Matias, R.R., Enriquez, G.L., Natividad, F.F. Cell biology of the Philippine amoeboflagellate, *Naegleria philippinensis*. *Transactions of the National Academy of Science and Technology*, 1991, 13:439-444.
- 1990 Simeon, E.C., Natividad, F.F., Enriquez, G.L. The pathogenicity of a Philippine isolate *Naegleria* sp. in mice: effects of dose levels and routes of infection. *Southeast Asian Journal of Tropical Medicine and Public Health*, 1990, 21:598-606.

Name **Ester B. Ogena**

Organizational Affiliations

Director, Science Education Institute - DOST, Bicutan, Taguig City
Consultant, UNESCO-Jakarta,
Consultant, Dept. of Education/ World Bank,
Consultant, Commission on Higher Education,

Education

Ph.D. Education - Research and Evaluation, University of the Philippines, Diliman, Quezon City 1990
MAT Mathematics, University of the Philippines, Diliman, Quezon City 1978
BSE Mathematics, Philippine Normal College, Taft Avenue, Manila 1976

Fields of Specialization

Governmental, Educational and International Policies
Science and Mathematics Education Policy Development and Program Evaluation

Employment

Deputy Director, Science Education Institute- Department of Science and Technology (SEI-DOST), 1988 - 1989-
Chief Science Research and Chief, Science Education, Science Promotion Institute - National Science and Technology Authority (SPI-NSTA), 1983 -1988-
Science Education Officer IV, National Science and Technology Authority (NSTA), 1982 - 1983-
Science Education Officer III, National Science and Technology Authority (NSTA), 1981-
Science Education Officer II, National Science Development Board (NSDB)/NSTA, 1978 - 1980-
Mathematics Instructor, Philippine Merchant Marine Academy (PMMA), 1978-
Professorial Lecturer in Math Edu, Edu Research & Stat, Edu Tech, & Science Policy, University of the Philippines College of Education and UP Open University, since 1998-
Professorial Lecturer in Math Edu, Edu Research & Stat, Edu Tech, & Science Policy, National Defense College, since 2000-
Professorial Lecturer in Math Edu, Edu Research & Stat, Edu Tech, & Science Policy, Development Academy of the Philippines, 2002 - 2004-
Professorial Lecturer in Math Edu, Edu Research & Stat, Edu Tech, & Science Policy, Philippine Normal University, 1990 - 2002-
Professorial Lecturer in Math Edu, Edu Research & Stat, Edu Tech, & Science Policy, University of Perpetual Help, 1999 - 2000-
Visiting Lecturer in Science Education Development, Sunchon University, South Korea,

2005 - 2006-

Member, Dissertation Panels of graduate students in mathematics education and educational research, University of the Philippines, since 1994-

Association Membership

Member, National Research Council of the Philippines

Chair, Division 1, Governmental, Educational, and International Policies

President, Foundation for Continuing Education (FORCE)

President, Philippine Association of RECSAM Grantees (PARG)

Member, International Council for the Advancement of Science Education (ICASE)

Member, International Organization for Science and Technology Education (IOSTE)

Member, Pi Lambda Theta Honor Society (Philippine Chapter)

Member, Zonta Club International, Taguig/ Parañaque Chapter

Director, Philippine Association for the Advancement of Science (PHILAAS)

Director, Philippine Council of Mathematics Teacher Educators

Director, UP College of Education Research Foundation

Member, Philippine Foundation for Science and Technology

Overall Coordinator, Science and Technology Human Resource Development Program
Department of Science and Technology

Project Director, DOST-Accelerated Human Resource Development Program in S&T

Project Director, Mindanao Opportunities for Vitalized Edu in and Upgrading for Progress
through Science (MOVE-UPS)

Project Director, The 1994 Science Scholarship Act Scholarship Program (R.A. 7687)

Program Manager, Science Education Sector World Bank - DOST "Engineering and
Science Education Project" (ESEP)

Program Director, NSDB / NSTA Institution Building Program

Member, Gov Board, Regional Center for Sci & Math Education (RECSAM) based in
Penang, Malaysia

Philippine Representative, Int'l Assn for the Assessment of Educational Achievements
(IEA) based in Amsterdam, The Netherlands

Asia Pacific Representative and Member, Standing Committee, IEA, Amsterdam, The
Netherlands

International Coordinator and Philippine Focal Point, APEC-Human Resource
Development for Industrial Technology (HURDIT)

Philippine Focal Point, UNESCO Regional (Jakarta Office) Committee on Women in
Science and Technology

Philippine Focal Point, Philippine Space Education Program UNESCO-NASA Affiliate

Consultant, World Bank-Department of Education Basic Education Sector Reform Agenda
(BESRA) of the Philippines

Consultant, Review of UNESCO-Jakarta RESGEST (2000-2005) & Future Directions for the Next Five Years (2006-2010)

Consultant, Microsoft / QSence Project

Consultant, Microsoft/QSence Project - Development of Students' ICT Competency Assessment Tools

Consultant, Microsoft/QSence Proj - Devt of Monitoring Tools for Teacher Practice of ICT Enabled Learning

Consultant, UNESCO Jakarta Regional Secretariat Program on Gender, Science and Technology (GST)

Consultant, AIDAB (Now AUSAID) Supported Proj Phil Australian Sci & Math Education Proj - Mid-Term Review

Consultant, AIDAB (Now AUSAID) Supported Proj Phil Australian Sci & Math Education Proj - Terminal Review

Consultant, AIDAB (Now AUSAID) Supported Proj - Pre-Feasibility Study for New Program in Science Education

Consultant, AIDAB-Mid Term Review of the Phil-Aus Teacher Educators Training Prog at Deakin Univ, Melbourne, Aus

Co-National Research Coordinator, Philippine Participation in the Third International Mathematics and Science Study

Co-National Research Coordinator, Philippine Participation in the Third International Mathematics and Science Advanced Study

National Research Coordinator, Philippine Participation in the Second Information Technology in Education Study Module 2

Co-National Research Coordinator, Philippine Participation in the First International Teacher Education Study - Mathematics

Member, Editorial Board The Asia-Pacific Education Researcher Journal

Member, Int'l Council for Science (ICSU)-Ad Hoc Panel for Strategic Review of ICSU's Role in Science Educ

Member / Commissioner, S&T Committee, UNESCO National Commission of the Philippines

Member/Commissioner, S&T Committee, UNESCO National Commission of the Philippines

Member, Technical Panel for Sci, Engr & Tech Cong Comm on Sci, Tech & Engr. Sci & Math Education Comm

Chairman, Governmental, Educational and Int'l Policy Division, National Research Council of the Philippines

Governor, National Book Development Board Office of the President

Member, Teacher Education Panel, Commission on Higher Education

Member, Teacher Education Panel, Commission on Higher Education

Member, National Statistics Office-Committee on Education

Member, Presidential Comm for Edu for Developing Disadvantaged Communities in Basilan, Sulu and Tawi-tawi

Member, UNESCO Advisory Committee for the Center on Continuing Education

Member, Board of Trustees, Philippine Science High School System

Member, Board of Advisers, College of Education De La Salle University

Member, Board of Advisers, College of Education De La Salle University

Member , Governing Board, National Science and Instrumentation and Training Center (NSTIC)

Member, Advisory Committee, Education For All (EFA) Department of Education

Consultant, DepEd Region VIII ? Developing the Peer Mentoring Program for Biology and Physics

Consultant, CHED on Review of R&D Proposals in Education

Consultant, DECS Bureau of Higher Education - Technical Panel for the Science

Consultant, CHED Evaluation Review Mission for the Cross- Institutional Complementation Program in Nueva Ecija

Technical Consultant, Diwa Learning Systems

Consultant / Editor, Matheniks (Grade School and High School Journal), Diwa Learning Systems

Alternate Member to the DOST Secretary, DECS State Assistance Council

Alternate Member to the DOST Secretary, Foundation for Information Technology in Education

President, Foundation for Continuing Education (FORCE)

Writer, Column on Educator's Forum WQ Magazine

Writer, Mathematics Beyond Numbers Series (Grades 1, 2, and 5) Diwa Learning Systems

Chairman, Task Force on ICT for Teacher Education Commission on Higher Education

Chairman, Task Force to Review the Centers of Excellence in Teacher Education Commission on Higher Education

Chairman, Task Force in Math & ICT for Developing the Teacher Edu Curriculum Commission on Higher Education

Member, Technical Working Group on Scholarships Commission on Higher Education

Member, Technical Working Group on Pre-Baccalaureate Program Commission on Higher Education

Member, Search Comm for Presidents of: Romblon State College, Marinduque State College & Univ of Rizal Sys

Member, Interagency Comm for Faculty Accreditation For Promotion (R-NCR) Commission on Higher Education

Member, Interagency Comm for Faculty Accreditation For Promotion (R-NCR) Commission on Higher Education

Member, Editorial Board Philippine Education Research Journal FAPE
Member, Change Management Team, Department of Science and Technology
Convenor, Mathematics Framework Development Project SEI-MATHTED
Convenor, Science Framework Development Project SEI-Philippine Science Organizations

Honors / Awards

Magna Cum Laude, Philippine Normal College 1976
Inclusion in the 12th Edition of the World, Who's Who of Women 1994
Achievement Award, National Research Council of the Philippines 2008
Presidential Lingkod Bayan Award, Civil Service Commission 2003
The Outstanding Women for Nation's Service (TOWNS)- Award for Education, TOWNS Foundation and Lions Club International 1998
Golden Award as Woman Achiever in S&T, National Council of Women in the Philippines 1996
Most Outstanding Alumna, Philippine Normal University 1992
First Awardee for Most Outstanding Research Award For Doctoral Dissertation, University of the Philippines - College of Education 1990
Dr. Vidal A. Tan Mathematics Award, Philippine Normal College 1976
Special Professional Award, Muntinlupa National High School Alumni Foundation 2008
Outstanding Achiever of Binan, St. Michael College, Laguna 2008
Most Outstanding Citizen of Muntinlupa (for Science and Technology), St. Michael's College, Laguna 1999
Most Outstanding Alumna, Muntinlupa High School 1992

Trainings

ICSU Ad Hoc Committee for the Strategic Review of ICSU's Role in Science Education, Paris, France 2010, S, 9-10
ICSU Ad Hoc Committee for the Strategic Review of ICSU's Role in Science Education, Paris, France 2010, Ja, 25-26
APEC Human Resource Development Meetings, Hiroshima, Japan 2010, F, 25-28
Asian Educators Academy, Seoul and Deonju, Korea 2010 Ag 3-6
Tech Bus Incubators as Benchmarking Activity of the Engr Research for Tech Prog (Part III), USA (UC Arizona, San Diego, Berkeley & Stanford Univ & Silicon Valley) 2009, O, 18-28
First Int'l Teacher Education Study- Mathematics (TEDS-M) Nat'l Research Coordinators' Meeting, Chicago, USA 2009, Mr, 8-13
Head of Philippine Team for the Regional FIRST Robotics Competition, Honolulu, Hawaii, USA 2009, Mr, 24-29
First Int'l Teacher Education Study- Mathematics (TEDS-M) Nat'l Research Coordinators' Meeting, Santiago, Chile 2009, JI, 19-24

TIMSS-Advanced National Research Coordinators? Meetings, Hengelo, The Netherlands 2009, Ja, 25-28

Tech Bus Incubators as Benchmarking Activity of the Engr Research for Tech Program (Part I), Singapore, Malaysia and Thailand 2009, Ja, 12-15

Tech Bus Incubators as Benchmarking Activity of the Engr Research for Tech Program (Part II), Taipei, Taiwan 2009, F, 11-14

Head of Philippine Team for the FIRST Robotics World Competition, Atlanta, USA 2009, Ap, 15-19

TIMSS-Advanced National Research Coordinators? Meetings, Stockholm, Sweden 2009, Ag, 5-7

IEA General Assembly Meetings, Tallin, Estonia 2009 O, 4-8

International Conference in Science Education, Nanyang University in Singapore 2009 N 25-27

First Int'l Teacher Education Study- Mathematics (TEDS-M) Nat'l Research Coordinators' Meeting, Bergen, Norway 2008, S, 1-5

World Robot Olympiad Advisory Committee Meetings, Yokohama, Japan 2008, O, 30 - N, 2

Study Visit to the University of Hawaii, Manoa 2008, Mr, 26-29

APEC Human Resource Development Meetings, Lima, Peru 2008, Je, 9-12

TIMSS-Advanced National Research Coordinators? Meetings, Portoroz, Slovenia 2008, Ja, 28-3

Study visit to Asian Ins of Tech, Chulaongkorn Univ, King Mongkok Univ & the Science Park, Thailand 2008, F, 12-14

Benchmarking of graduate science programs, Singapore, Malaysia 2008, Ap, 27 - My, 3

Conference on Learning Experience on New Knowledge Economy Strategies to Improve Competitiveness, Seoul, Korea 2008 Ji 14-19

International Conference on Women Scientists: Challenges, Opportunities and Choices, National Yang-Ming University, Taipei, Taiwan 2008 O 26-29

Lecture Forum on the 21st Century COE Program, Institute on Gender Studies, Ochanizumi University, Tokyo, Japan 2008 Ja 17-19

Study Visit of the Korean Science Academy, Korea 2007, S, 11

IEA General Assembly Meetings, Hong Kong, China 2007, O, 8-11

UNESCO General Conference, S&T Commission Meetings, Paris, France 2007, O, 22-30

APEC-Industrial Technology Working Group Forum, Vladivostok, Russia 2007, My, 15-16

First Int'l Teacher Education Study- Mathematics (TEDS-M) Nat'l Research Coordinators' Meeting-, Taipei, Taiwan 2007, Je, 25-29

First Int'l Teacher Education Study- Mathematics (TEDS-M) Nat'l Research Coordinators' Meeting, San Antonio, Texas, USA 2007, F, 5-9

3rd APEC Forum for the Gifted in Science, Geongnam Province, South Korea 2007 S 10-12

First APEC Forum on Statistical Analysis for Gender in Science and Technology, Chonbuk National University, Jeonju, South Korea 2007 N 21-25

Asia-Pacific Education Summit, Shanghai, People's Republic of China 2007 My, 22-24

2nd APEC Forum on the Gifted, Geongnam, Korea 2007 F 1-3

ASEAN+3 Forum for the Gifted in Science, Kyungnam University, Geongnam, Korea 2007 Ap 11-12

2nd APEC Forum on the Gifted, Geongnam, Korea 2007 F 1-3

TEDS-M Scoring and Syllabi Coding Training Seminar, San Antonio, Texas, USA 2007 F 5-9

APEC Human Resource Development Meetings, Singapore 2006, S, 13-15

IEA General Assembly Meetings, Amiens, France 2006, O, 9-12

First Int'l Teacher Education Study- Mathematics (TEDS-M) Nat'l Research Coordinators' Meeting, Hamburg, Germany 2006, F, 13-16

US National Science Foundation-APEC-IST Roundtable Discussion on Human Resource Development, Singapore 2006 S 13-15

TIMSS-R National Research Coordinators, Cairo, Egypt 2005, F, 7-10

2nd Educators' Academy - Intel International Forum, Phoenix, Arizona, USA 2005 My 8-14

UNESCO Asia-Pacific on Regional Collaboration for HR Devt in Basic S&T for Intl Basic Science Prog, Bangkok, Thailand 2005 Mr 7-11

Training Seminar on the Use of the TIMSS 2003 International Database, Cairo, Egypt 2005 F 7-9

APEC International Symposium, Suchon National University 2004 F 27-29

International Conference on IT-Based Capacity Building in Science, Okinawa, Japan 2003, Ja, 16-18

Study Visit of Hong Kong Universities with the Philippine Pi Lambda Theta Group, Hong Kong 2002, S, 7-8

IEA General Assembly Meetings, Marrakech, Morocco 2002, O, 7-10

SITES-M2 (Second Information in Education Study-Module 2) National Research Coordinators' Meetings, Jyvaskyla, Finland 2002, My, 28-31

APEC Cyber Cooperation (ACEC) Workshop and Meeting of the International Advisory Group, Thailand 2002, Mr, 25-28

UNESCO Regl Conf on Assessment of Resources, Best Prac & Gaps in Gender, S&T in Asia Pacific Regn, Chennai, India 2002, Mr, 21-23

Study Visit of R&D Centers in Beijing, China, Beijing, China 2002, Ap, 4-5

Inter-Academy Council Conference on Capacity Building in Science and Technology, Beijing, People's Republic of China 2002, Ap 4-5

Regional Workshop on IT Management Program on e-Learning Utilization in Southeast Asia, Tokyo, Japan 2002 Ji 22-27

Governing Board Meetings of Reg Center for Sci & Math Education (RECSAM) - as vice-

chair or member, Kuching, Malaysia 2001, S, 5-7

UNESCO General Conference, S&T Commission Meetings, Paris, France 2001, O, 13-19

INTEL Engineering and Science Fair Observation and Study Tour, San Jose, USA 2001, My, 5-11

SITES-M2 (Second Information in Education Study-Module 2) National Research Coordinators' Meetings, Singapore 2001, Je, 13-15

Regional Meeting of National Focal Persons on Gender in Science and Technology, Jakarta, Indonesia 2001, Ap, 18-19

Governing Board Meetings of Reg Center for Sci & Math Education (RECSAM) - as vice-chair or member, Rangoon, Myanmar 2000, S, 7-9

SITES-M2 (Second Information in Education Study-Module 2) National Research Coordinators' Meetings, Toronto, Canada 2000, S, 26-30

IEA Standing Committee Meetings, Chiang Mai, Thailand 2000, O, 7-8

Regional Meeting of National Focal Persons on Gender in Science and Technology, Jakarta, Indonesia 2000, O, 16-18

APEC Human Resource Development Meetings, Sapporo, Japan 2000, Ja, 23-30

International Meeting on the Use of Information and Communication Technology (ICT) in Education, Tokyo, Japan 2000, Ja 30 - F

TIMSS-R National Research Coordinators, Antalya, Turkey 2000, F, 28 - Mr, 3

IEA Standing Committee Meetings, Istanbul, Turkey 2000, F, 26-27

IEA General Assembly Meetings, Chiang Mai, Thailand 2000 O, 9-12

APEC Human Resource Development Meetings, Hong Kong 1999, My, 10-14

APEC Forum on Human Resource Development, Chiba, Japan 1999, JI, 3-15

Human Resource Development: Philippines-Taiwan Forum, Taipei, Taiwan 1999, Je, 7-10

Study Visit in Universities in Science and Engineering Universities, Budapest, Hungary 1999, Je, 26-27

APEC Human Resource Development Meetings, Santiago, Chile 1999, Ja, 24-31

IEA Standing Committee Meetings, Amsterdam, the Netherlands 1999, F, 26-27

TIMSS-R National Research Coordinators, Casablanca, Morocco 1999, F, 21-25

Governing Board Meetings of Reg Center for Sci & Math Education (RECSAM) - as vice-chair or member, Penang, Malaysia 1999, F, 12-13

IEA General Assembly Meetings, Oslo, Norway 1999, Ag, 29 - S, 2

TIMSS-R National Research Coordinators, Kuala Lumpur 1999 O, 18-22

World Conference in Science and Technology, Budapest, Hungary 1999 Je 26 - JI 1

TIMSS-R National Research Coordinators, Boston, USA 1998, S, 17-22

IEA General Assembly Meetings, Jerusalem, Israel 1998, S, 6-10

Governing Board Meetings of Reg Center for Sci & Math Education (RECSAM) - as vice-chair or member, Ho Chi Minh, Vietnam 1998, S, 3-5

UNESCO General Conference, S&T Commission Meetings, Paris, France 1998, O, 26 - N, 2

TIMSS-R National Research Coordinators, Berlin, Germany 1998, Mr, 2-5

IEA Standing Committee Meetings, Amsterdam, the Netherlands 1998, F, 27-28

Governing Board Meetings of Reg Center for Sci & Math Education (RECSAM) - as vice-chair or member, Bandung, Indonesia 1997, S, 8-10

IEA General Assembly Meetings, Sofia, Bulgaria 1997, S, 15-18

UNESCO General Conference, S&T Commission Meetings, Paris, France 1997, O, 31 - N, 9

International Conference on Globalization of Science Education, Seoul, Korea 1997, My, 26-30

JICA's Individual Training Program on Science Education Policy, Japan 1997, Ja, 20-29

Study Visit in Japan of Science Education and Research Centers under JICA Program, Japan 1997, Ja, 20-29

APEC Symposium Concerning Public Understanding on Science and Technology, Tokyo, Japan 1997, Ag, 27-29

ASEAN Workshop on S&T Human Resource Devt to Support Industrialization & Scientific Advancement, Kuala Lumpur, Malaysia 1997 Mr, 17-18

TIMSS-R National Research Coordinators, Amsterdam, the Netherlands 1997 D, 10-12

Governing Board Meetings of Reg Center for Sci & Math Education (RECSAM) - as vice-chair or member, Penang, Malaysia 1996, S, 9-11

IEA General Assembly Meetings, Vancouver, Canada 1996, O, 7-11

Second Jerusalem International Science and Technology Conference (JISTEC), Jerusalem, Israel 1996, Ja, 7-12

TIMSS National Research Coordinators' Meetings, Prague, Czech Republic 1996, Ag, 12-16

IEA General Assembly Meetings, Riga, Latvia 1995, S, 24-29

Seminar on Strategic Planning for Science Education for the 21st Century, RECSAM, Penang, Malaysia 1995, S, 14-20

UNESCO General Conference, S&T Commission Meetings, Paris, France 1995, N, 2-13

UNESCO General Conference, S&T Commission Meetings, Paris, France 1995, N, 2-13

UNESCO Sub-Regional Seminar on Development of Distance Learning System, Beijing, China 1995, My, 15-19

ESCAP Expert Group Meeting on Promoting Regl Eco Cooperation for Indl & Technical Skills Devt, Beijing, China 1995, Mr, 29-31

Meeting with the International Mathematics Olympiad (IMO) Advisory Committee, Toronto, Canada 1995, JI, 15-24

Hands-On Training at the National Demonstration Laboratory for Interactive Information Technologies, Washington, U.S.A 1995, JI, 12-14

Governing Board Meetings of Reg Center for Sci & Math Education (RECSAM) - as vice-

chair or member, Phuket, Thailand 1995, Ag, 23-25

TIMSS National Research Coordinators' Meetings, Cyprus 1995, Ag

Teacher Education Institutions doing Open Learning, Beijing, China 1995 My, 15-19

Regional Workshop on Proposals for the 6th Five Year Plan (July 1995 June 2000), RECSAM, Penang, Malaysia 1994, Mr, 28 - Ap, 2

IEA General Assembly Meetings, Yogyakarta, Indonesia 1994, Ag, 20-26

TIMSS National Research Coordinators' Meetings, Boston, U.S.A. 1994, Ag, 1-7

TIMSS National Research Coordinators' Meetings, Frascati, Italy 1993, O, 15 22

UNESCO General Conference, S&T Commission Meetings, Paris, France 1993, N, 6-11

ASEAN Conference on Global Change Education, Madras, India 1993, N, 22 26

Study Visit in Univ on Science & Engr. to Establish Linkages for DOST Engr Science Edu Prog, United Kingdom 1993, F, 13-28

JICA World Bank Asia Regl Senior Policy Seminar on Secondary Edu for the 21st Century, Tokyo, Japan 1993, D, 06 10

Study Visit to Special Science and Technical High Schools Adelaide, Sydney, Australia 1992, Ag, 2-8

Study Visit for Packaging a Tech Based Curricular Prog under the DOST-World Bank Prog, Taiwan and Korea 1992, Ag, - S, 5

Study Visit of Sci Edu Centers & Univ in Australia for Devt Sandwich Prog for PhD Schlr in Sci Edu, Australia 1990, Je, 24-Jl, 8

UNESCO Regional Workshop on Public Awareness of Science and Technology, Seoul, Republic of Korea 1989, Jl, 5 12

International Conference on Technology, Education and Society, Royal Melbourne Institute of Technology Melbourne, Australia 1987, My, 10 15

4th International Symposium on World Trends in Science and Technology Education, Kiel, West Germany 1987, Ag, 4-12

Training on Evaluation Techniques in Science and Mathematics Education, RECSAM, Penang, Malaysia 1985, Ap 8 -Je, 15

International Youth Conference on Living Together in World Community, Awajii Island, Japan 1985, Ag, 28-30

ASEAN Delegate Japan Friendship Program for Young Executives in Government, Japan 1985, Ag, 11 - S 10

Seminar on Operations Research: International Center for Pure and Applied Math, Grenoble, France 1982, Ag, 31 - S, 17

APEC International Workshop on Cyber Education Cooperation, Seoul, South Korea 2002 Jl 22-27

Researches

Completed

Formulation of National Learning Strategies in Science and Mathematics

Developing a Quality Assurance Framework for Basic Education Schooling (As

Consultant and Team Leader)

On-going

Philippine Participation in the First International Teacher Education Study-Mathematics (TEDS-M)2006-2008 (As National Research Coordinator)

Papers Presented

Ogena, E.B. (2009, O). "A Study on the Gender Dimensions and Determinants of Science Aptitude of Students Across Selected South East Asian Countries", International Science Education Conference (ISEC) 2009. Nanyang Institute of Education, Singapore..

Ogena, E.B., et. al. (2008, Ja). Mentoring Manual for Teachers, Department of Education-Science Education Institute, DOST. Taguig.

Ogena, E.B. (2007, N, 21-25). "How are Women in the Philippines on Science and Technology?", First APEC Forum on Statistical Analysis for Gender in Science and Technology at Chonbuk National University, Jeonju, South Korea.

Ogena, E.B. (2007, F). "Best Practices in the Philippines for the Gifted in Science", 2nd APEC Forum on the Gifted, Geongnam, Korea,.

Ogena, E.B. (2007, Ap). "Developing the Gifted in Science: Philippines", ASEAN + 3 Forum, Kyungnam University, Geongnam, Korea.

Ogena, E.B. (2007). "Capacity Building of Teachers in Science and Mathematics Education," Fusion. Foundation for Upgrading the Standard of Education, Inc.

Ogena, E.B. (2006, My). Performance Review of RESGEST (2000-2005) and Options for Future Directions (2006-2010), UNESCO-UNCSTD-Regional Center for Gender Equity in Science and Technology, UNESCO-Jakarta and DOST-SEI.

Ogena, E.B. (2006 My 30-31). Performance Review of RESGEST (2000-2005) and Options for Future Directions (2006-2010), UNESCO-Jakarta RESGEST Conference for Asia.

Ogena, E.B. (2006 Mr 28 and 2006 Je 15). Capacity Building of Teachers in Science and Mathematics Education, General Assembly of the Foundation of Standards of Education (FUSE) the National Research Council of the Philippines (NRCP) Division I Symposium, PNU, Manila.

Ogena, E.B. (1999). "SEI Programs for Excellence in Science and Mathematics," Proceedings of the Fifth National Conference on the Gifted. Gifted Philippines, Inc.

Ogena, E.B. (1997.). "Models For Partnerships In Science Education Development: A Philippine Experience, ", Globalization of Science Education. Seoul: Korean Educational Development Institute.

Ogena, E.B. (1997 Ag). Current Efforts And Future Directions On Science Programs And Events In the Philippines ", APEC Symposium Concerning Public Understanding on Science and Technology, Japan Science and Technology Agency, Tokyo, Japan.

Ogena, E.B. (1997). "Science and Technology Human Resource Development, A Philippine Situationer". S&T Human Resource Development to Support Industrialization and Scientific Advancement. Tokyo: Japan Science and Technology Agency.

Ogena, E.B. (1996 S). Science Education Beyond 2000, Science Information Forum, National Academy of Science and Technology, Taguig City.

Ogena, E.B. (1995 My). Science Education Via Distance Education: A Philippine Experience , UNESCO Subregional Seminar on Development of Distance Learning

System in the Basic Sciences .

Ogena, E.B. (2006 S 22). Role of Lifelong Learning in Dementia Prevention, National Congress of the Alzheimer's Disease Association of the Philippines, held at the Philippine Plaza Hotel, Manila.

Publications

- Ogena, E.B., Brawner, F.G., and Ibe, M.D. "Philippines Chapter, Teacher Educational Mathematics Study (TEDS-M)-Report on Participating Countries.. IEA-Michigan State University, for publication.
- 2009 Ogena, E.B. Baseline Survey on R&D and Patent Pooling Among Selected Research Institutions in the Philippines. IDRC-Arellano Law Foundation-SEI, 2009 My.
- Ogena, E.B. Parents' Handbook: Mindanao Opportunities for Vitalized Education and Upgrading of Science. SEI-MSU, 2009 Ap.
- Ogena, E.B. Principals Handbook: Mindanao Opportunities for Vitalized Education and Upgrading of Science. SEI-MSU, 2009 Ap.
- Ogena, E.B. , Lana, R., Sasota Baseline Survey on R&D and Patent Pooling Among Selected Research Institutions in the Philippines. IDRC-Arellano Law Foundation-SEI, 2009 My.
- Ogena, E.B. Project Manual: Mindanao Opportunities for Vitalized Education and Upgrading of Science. SEI-MSU, 2009 Ap.
- Ogena, E.B., Brawner F.G. National Policies and Practices on ICT in Education: Philippines. Cross-National Information and Communication Technology: Policies and Practices in Education, 2nd Edition. USA: Information Age Publishing, 2009:569 - 584..
- 2008 Ogena, E.B. Mentoring Manual for Teachers. Department of Education-Science Education Institute, DOST, Taguig, 2008 Ja.
- Ogena, E.B., Belen, J.G., Yap, A.I., Tan, M.C. Addressing Misconceptions in Mathematics and Science. UPNISMED-DOST-SEI, 2008 Ap.
- 2007 Ogena, E.B., Brawner, F.G., Cristobal, R.R. Action Research Manual for Teachers. Science Education Institute-Vibal Publishing House, 2007 Jl.
- 2006 Ogena, E.B. Formulation of National Learning Strategies in Science and Mathematics. Department of Education and World Bank, 2006, S, 30.
- 2006 Ogena, E.B. and De Guzman, E.S. Developing a Quality Assurance Framework for Basic Education Schooling. Department of Education and World Bank, 2006, S, 30.
- 2006 Ogena, E.B., Tan, M.C. Formulation of National Learning Strategies in Science and Mathematics. Department of Education and World Bank, 2006 S 30.
- 2006 Ogena, E.B.(Consultant), Estefania, S. Developing a Quality Assurance Framework for Basic Education. Department of Education and World Bank, 2006 S 30.
- 2006 Ogena, E.B. Performance Review of RESGEST (2000-2005) and Options for Future Directions (2006-2010). UNESCO-UNCSTD Regional Center for Gender Equity in Science and Technology, UNESCO-Jakarta and DOST , 2006 My.

- Ogena, E.B., Ibe, M.D., and Brawner, F.G. Philippine Participation in the Trends International Mathematics and Science Study 2003: A National Report (Mathematics). UPNISMED, 2006.
- 2005 Ogena, E.B. Collaboration in Academic Research in Science and Technology: Challenges to for Development. Philippine Education in the Third Millennium: Trends, Issues and Challenges. N. Samar, 2005.
- Ogena, E.B. Policy Research: Trends and Challenges. Philippine Education in the Third Millennium: Trends, Issues and Challenges. N. Samar, 2005.
- 2004 Ogena, E.B., Ibe, M.D., and Brawner, F.G. Effective Practices in Science and Mathematics Education: A Benchmarking Project. (Major Report.). Science Education Institute, 2004.
- Ogena, E.B. Mathematics Beyond Numbers, Grade One. Makati: Diwa Learning Systems, 2004.
- Ogena, E.B. Mathematics Beyond Numbers, Grade Two. Makati: Diwa Learning Systems, 2004.
- Ogena, E.B., Ibe, Milagros, Golla, E., and Pattuinan, D. Mathematics Beyond Numbers, Grade Five. Makati: Diwa Learning Systems, 2004.
- Ogena, E.B., and Brawner, F.G. Effective Practices in Science and Mathematics Education. Science Education Institute, 2004.
- Ogena E.B., Ibe, M.D., Brawner, F.G. Ibe, Milagros D., Ogena, Ester B. and Brawner, Filma G. (Eds.) Effective Practices in Science and Mathematics Education: A Benchmarking Project. (Major Report.) Science Education Institute. 2004. Science Education Institute, 2004.
- Ogena, E.B. "Information and Communications Technology Infrastructure for Developing Competitive Skills, Effective Practices in Science and Mathematics Education: A Benchmarking Project. Science Education Institute, 2004.
- 2003 Ogena, E.B., Brawner, F.G. Chapter on Philippine Report, in International Report: Second Information Technology in Education Study/Module 2 (SITES-M2). The Netherlands: IEA, 2003.
- 2002 Ogena, E.B. National Research Coordinators and Administration Handbook and Instruments. RESGEST, UNESCO, Indonesia and DOST-SEI, 2002, N.
- 2001 Ogena, E.B. "The Challenges of Information and Communications Technology: Teacher Education?s Response.", Parangal sa Philippine Normal University. PNU Press, 2001, 1.
- Ogena, E.B. "Highest Performing Countries in TIMSS: School Contests for Learning and Instruction.", Science, Mathematics and Technology Literacy: Strategies for the 21st Century. UP-NISMED, 2001.
- 2000 Ogena, E.B., National Research Coordinator and Member, Writing Team TIMSS-R Philippine Report (Science and Mathematics Volumes). DECS-DOST-UP, 2000, D.
- Ogena, E.B. and Brawner, F.G. Diwa Learning Systems. Matheniks (Grade School and High School Journal), 2000 - 2004.
- 1999 Ogena, E.B. and Golla, E.F. Mathematics for the 21st Century:8th Southeast Asian Conference on Mathematics Education. MATHTED, 1999.
- Ogena, E.B. and Golla, E.F. Mathematics for the 21st Century:8th Southeast Asian

- Conference on Mathematics Education. MATHTED, 1999.
- Ogena, E.B., Ambrosio, A.D., Bacungan C.M., and Talisayon, V.M. "Science and Technology Report" in the Philippine Science Encyclopaedia, Volume on Government, Education and International Relations.. National Research Council of the Philippines, 1999.
- Ogena, E.B. - SEI Programs for Excellence in Science and Mathematics. Proceedings of the Fifth National Conference on the Gifted, Gifted Philippines, Inc., 1999.
- 1998 Ogena, E.B., and Brawner, F.G. Science Education In the Philippines: Challenges for Development. Science Education Institute, 1998..
- Ogena, E.B., and Ibe, M.D. "Science Education in the Philippines: An Overview", Science Education In the Philippines: Challenges for Development. Science Education Institute, 1998..
- Ogena, E.B. "Gender Data on S&T Manpower Development." Increasing Female Participation in S&T. SEI-UNESCO National Commission, 1998.
- 1997 Ogena, E.B. "IT and Teacher Training, " The Philippine Educator. . Phoenix Publishing Co , 1997.
- 1996 Ogena, E.B. Continuing Education for Science Educators, Futures of Education. Asian Institute of Journalism, 1996.
- 1995 Ogena, E.B. "Gender Data on S & T Manpower Development," Proceedings of UNESCO Workshop on Increasing Female Participation in Science and Engineering. SEI, DOST, 1995.
- 1994 Ogena, E.B. "Biology Education Towards the Year 2000," Proceedings of the 29th Annual Biota Convention and Seminar- Workshop. Bukidnon, Philippines , 1994, pp.3-5.:3-5..
- 1994 Ogena, E.B. and Brawner, F.G. Science Education In the Philippines: Challenges for Development. SEI, NAST, PIDS, 1994 editions.
- Ogena, E.B. Ogena, Ester B. "The Role of Physics Teachers in Achieving Philippines 2000," Physics Education for Philippines 2000. APPTA-PAPT , 1994:13 - 16.
- Ogena, E.B. "Women Empowerment in S & T Through Science Education for ASEAN Development. Technical Papers for the ASEAN Symposium on Women in Science and Technology, 1994:148-157..
- Ogena, E.B., Tan, E.A., Ogena, Ester B., et.al. Internal and External Efficiency of Philippine Higher Education. Bureau of Higher Education, DECS, 1994.
- 1993 Ogena, E.B. Science and Technology Education Plan. Taguig, Metro Manila, 1993:54.
- 1992 Ogena, E.B. Gifted Children and Youth of Today, Gifted, Adults of the 21st Century. Reading Dynamics Center, Inc., 1992.
- 1991 Ogena, E.B. "Factors Associated with the Construct of Mathematical Talent in Filipino Children and Young Adults.". U.P. Education Quarterly , 1991, S, I(1):16 -18..
- Ogena, E.B. "Factors Associated with the Construct of Mathematical Talent in Filipino Children and Young Adults." . Teacher's Quarterly, 1991, S, I(1):16-18..
- 1989 Ogena, E.B., Ibe, M.D. Popularization of S&T in the Philippines: A Country Report, Report of UNESCO Regional Workshop on Public Awareness of S&T. UNESCO Korean

- National Commission, 1989 JI.
- 1987 Ogena, E.B. Science Technology Society. Diwa Learning System, 1987:52.
- Ogena, E.B. and Utairat, S. "Factors Associated with Career Choices of Secondary School Students in Science and Mathematics." RECSAM Journal, Penang, Malaysia, 1987.
- Ogena E.B. "An Analysis of the Impact of Technological Innovations on Indigenous Science Based Beliefs & Practices," S&T Education on the Quality of Life. INP, Kiel, West Germany., 1987, 1.
- 1985 Ogena, E.B. Survey of Philippine Science and Mathematics Teachers in Secondary Schools.. Science Promotion Institute (SPI), 1985, Mr.
- 1984 Ogena, E.B. Summary Profile of NSTA SPI Undergraduate Scholarship Drop outs. SPI Staff Paper, 1984..
- Ogena, E.B., Ambrosio, A.D., and Domingo, R.F. Basic Science Education at Regional Tertiary Schools. A cursory Review.. Science Promotion Institute (SPI) Staff Paper, 1984..
- Ogena, E.B., Ambrosio, A.D., and Arciaga, V.N. NSTA SPI Program on the Improvement of Science Laboratory Facilities of Philippine Schools. SPI Staff Paper, 1984.
- Ogena, E.B. Profile of Philippine Science High School Qualifiers to the NSTA UP Undergraduate Scientific Manpower Development Program. SPI Staff Paper, 1984.
- Ogena, E.B. Summary Profile of NSTA SPI Graduated Scholars Who Traveled Abroad for the Period 1979 1984. SPI Staff Paper, 1984.
- Ogena, E.B. NSTA SPI Undergraduate Scholarship Drop Outs for the Period 1979 1984:. A Trend Analysis SPI Staff Paper, 1984.
- 1978 Ogena, E.B. Immediate Versus Delayed Feedback: Effects on Achievement in Mathematics . UP Education Quarterly, 1978 Ja - Mr, 24(3).
- 2000 Ogena, E.B., and Brawner, F.G. Chapter on Philippine Report, in The Impact of TIMSS on the Teaching and Learning of Mathematics and Science. Pacific Educational Press, Canada, 2000.
- Ogena, E.B. "Technology-Based Teacher Education Curriculum for Philippines 2000" . JISTEC '96 Book of Abstracts, Technology Education for a Changing Future: Theory, Policy and Practice", :54-69..

Name **Ma. Minerva V. Patawaran-Calimag**

Organizational Affiliations

Professor 2, UST Faculty of Medicine and Surgery, Manila

Active Medical Staff, Santo Tomas University Hospital , Manila

Board Examiner, Philippine Boards of Anesthesiology (2001-2004; 2004-2007) ,

Education

Ph.D. in Education (Major in Educational Management), University of Sto. Tomas (UST), Manila 2004

M.S. in Science Epidemiology, University of the Philippines, College of Medicine, Manila 1999-2000

M.D., University of Santo Tomas, Manila 1981

Fields of Specialization

Clinical Epidemiology

Anesthesiology

Pharmacology

Employment

Chairman, Research Committee, Department of Anesthesiology, Faculty of Medicine & Surgery, UST, 2004

OB Anesthesia, Department of Anesthesiology, Faculty of Medicine & Surgery, UST, 2004-present

Committee on Social Activities, Department of Anesthesiology, Faculty of Medicine & Surgery, UST

Chairman, Research Committee, Department of Pharmacology, Faculty of Medicine & Surgery, UST

Association Membership

Vice Chairman, Philippine Board of Anesthesiology

Vice President and CME Chairman, Philippine Society of Anesthesiologists, Inc (PSA)

Member, TEODORA: In defence of the Authentic Woman, Inc.

Board Examiner, Philippine Board of Anesthesiology

President, Manila Medical Society

President, Society for Obstetric Anesthesia of the Philippines SOAP, Inc

Member, Philippine Society for Experimental and Clinical Pharmacology (PSECP)

President, International College of Surgeons Alliance, Philippine Chapter

Member, Samahan Laban sa Pekeng Gamot (an Advocacy against Fake Medicines)

Member, Philippine Medical Association, Inc (PMA)

OVERALL-CHAIR, PMA National Celebration of Medicine Week
Chairman, Committee on Physical Arrangments, PMA Centennial Convention
Chairman, Committee on Affiliate Society Participation, PMA Centennial Convention
Director, Philippine Society of Anesthesiologists, Inc
Co-Chairman , Legislation, By-Laws and Codes Committee
Member, Most Outstanding Anesthesiologist Award Committee
Member, Social Program, 33rd PSA Annual Convention
Member, PSA RUV Committee
Chairman, Publications Committee 12th ASEAN Congress of Anesthesiologists
PSA Representative, PHILHEALTH RUV Oversight Committee
PSA Representative, Philippines National Drug Formulary Committee Hearing
Committee Member, Society for Education in Anesthesia (USA) Outreach Committee for Third World/Developing World
Commitee Member, Society for Education in Anesthesia (USA) Research Committee
International Edition Commitee, Journal of Clinical Epidemiology-International Clinical Epidemiology Network
Editorial Commitee, Santo Tomas Journal of Medicine
Editorial Commitee, Journal of Philippine Society of Anesthesiologists
Editorial Commitee, Journal of Philippine Medical Association
Peer Reviewer, Cochrane Anesthesia Review Group (Denmark)
Peer Reviewer, Philippine Cochrane Review Group Network
Peer Reviewer, Medical Education Journal (United Kingdom)
Peer Reviewer, PEER REVIEWER, Current Issues in Education (United Kingdom)
Regular Member, National Research Council of the Philippines - Department of Science and Technology
Member Scholar, Philippine Council for Health Research and Development
Member, International Clinical Epidemiology Network (INCLLEN)
Member, Philippine Clinical Epidemiology Network (PHILCLLEN)
Member, UST Research Center for the Health Sciences
Member, UST Center for Educational Research and Development
Project Coordinator, International College of Surgeons Alliance Philippine Section Breast Cancer Awareness
Project Coordinator and Consultant, Manila Medical Society Third District Chapter "Linggo ng Kalusugan" Medical Mission
Head Anesthesiologist, UST Medical Missions Foundation Manaoag Medical Missions 2001

Head Anesthesiologist, UST Medical Missions Foundation Manaoag Medical Missions 2001

Project Coordinator, Operation Tuli The National Shrine of Our Lady of Lourdes Parish in cooperation with USTMAA

Physician-In-Charge, CFC Handmaids of the Lord International Mission Conference in Ormoc, Leyte

Project Coordinator, Operation Tuli Barangay Hall, Matutum St. Q.C. in cooperation with USTMAA and Couples

Overall Chairman, PMA National Celebration of Medicine Week CONSULTANT

Member OB Anesthesia, Department of Anesthesiology

Member, UST FMS Ambulatory Anesthesia, Committee on Social Activities

Chairman, Research Committee, Department of Pharmacology UST FMS

Member, Obstetric Anesthesia Society for Asia and Oceania (HongKong)

Member, Obstetric Anesthetic Association (London)

Member, New York Academy of Science (USA)

Member, International Society for Anesthetic Pharmacology (ISAP)

Member, American Society of Anesthesiology, (USA)

Member, CFC Medical Missions Foundation

Member, Pain Society of the Philippines (PSP)

Honors / Awards

PCHRD Scholarship and Thesis Grant, PCHRD 1999 Ag 27

Research Chair Holder Dr. Leopoldo Pardor Research Chair in the Basic Sciences, UST - Health Science Research Management Group 2000 O 25

UST Research Award Silver Series 1998-2000, Plaque of Recognition, UST Research Foundation 2000 F 28

UST Research Award Gold Series 2000-2002, Plaque of Recognition UST Research Foundation 2003 F 28

Dangal Award Gawad Sto.Tomas Outstanding Faculty in Research 2003, Tropy USTFU-UST 2003 JI 18

UST Research Award Gold Series 2002-2004, Plaque of Recognition UST Research Foundation 2005 F 28

Casiano Leadership Award Outstanding Component Society President 2002- 2003 2003 - 2004, Plaque of Recognition ,Philippines Medical Foundation 2003-2004 My 25-23

Leadership Award, Plaque of Recognition ,Philippines Medical Association 2005 My 27

Full Professional Rank (as of June 2004), Professional Medallion UST Academic Affairs 2005 JI 05

The Outstanding Physicians Community Service, Tropy Philippines Medical Association Auxiliaryb 2006 O 27

Dangal Award Gawad Binavidez Service Award (20 years)2006, Medal USTFU-UST

2007 D 12

Oustanding Thomasian For Leadership In Health And Health-Related Issues, Trophy Medical Alumni Association 2006 D17

Chief Resident, Residency Training in Anesthesiology 1983-1986 My

Chief Resident, Residency Training in Anesthesia 1983-1986 My

Diplomate, Philippines Board of Anesthesiology 1988 O 21

Fellow, Philippine Society for Experimental and Clinical Pharmacology

Trainings

38th Congress of the Association of the Philippines Medical Colleges (APMC), Edsa Shangri-la, Philippines 2005 F

Management Course in Research Organization and Management, UP College of Medicine, Manila 2000 Mr

1st Philippines Society of Anesthesiologists Smithkline Beecham Annual Research Paper Contest, 1991 D

6th ASIAN Congress of Anesthesiologists, PICC, Manila 1989 N

26th Manila Medical Society Colegio Medico-Farmaceutico de Filipinas, Inc., 1987 JI 9

5th Annual UST Anaesthesia Resident's Scientific Paper Contest, 1986 My 18

78th PMA Annual Convention, PMA-Abbot Scientific Paper Contest, Baguio City 1984 My 18

Researches

Completed

Understanding the dynamics of creative insubordination in Philippine Medical Schools through a multifocal lens

Benchmarking technology integration: Addressing pressures towards a globally relevant medical curriculum

Crystalloids vs. colloids for preloading during spinal anesthesia

Kasiglahan at Kalusugan sa Pook Maisan: A sustainable community-based Health Development Program

The MINERVA Instructional Systems Design Model for medical education and residency training and an alternative reformatted anesthesia curriculum: A Hypermedia-based Neoconstructivist Learning Experience (ARACHNE)

The perioperative questionnaire: A tool for risk stratification in adult surgical patients

The Problem-based learning curriculum through the lens of systems analysis

On going

Integration of humanism in the Global Medical Curriculum: Voices from the field

Humanism vs. Scientism in Medical Education: Opposition, integration or pluralism

Redefinition and codification of the database schema of the Philippine Board of Anesthesiology

Observers' Objective Pain Score (OOPS) for postoperative pain evaluation in the post

anesthesia care unit: A multicenter study (Pain Study Group)

Philippine Clinical Practice Guidelines for Preoperative Evaluation of Surgical Patients

Prostigmine for reversal of sedation adjunctive hypnosis in pediatric patients for ophthalmologic surgery

The combined effects of *Allium sativum*, *Gingko biloba*, and *Magnolia officinalis*-extracts on hematologic parameters in rats

The combined effects of *Panax ginseng* Extract and vitamin E on hematologic parameters in rats

The effect of sleep deprivation on the psychomotor skills of clerks, interns and residents

Use of controlled-release oxycodone for postoperative pain relief after orthopedic surgery (Pain Study Group)

The Modified Alvarado Scoring Index for the diagnosis of Acute appendicitis

Papers Presented

Mapalad, M.E. et al (JI-Je). A Comparative Study of the Incidence of side Effects between High-Dose Intrathecal Morphine Sulfate, SMPCH.

Calimag, Ma. M.V.P (2007 Mr 8). The Epistemological Development of the Medical Mind: Polarity, Plurality or Perfectivity (under the auspices of the UST Center for Educational Research and Development, 74th Annual Conference of the National Research Council of the Philippines.

Calimag, Ma. M.V.P (2006 S). Opioid Use in the Philippines-20 Years after the WHO Analgesic Ladder, 3rd Asian Conference on Pain, Singapore.

Patawaran-Calimag, Ma.M.V., Javier, F. (2006 N 29-D 2). Opioid use in the Philippines, 20 years after the World Health Organization (WHO) ladder, 1st Congress of the Association of Southeast Asian Pain Societies (ASEAPS) for the Pain Society of the Philippines, Manila Philippines.

Patawaran-Calimag Ma. M.V. (2006 My 25-26-). Information and communication technology (ICT) integration in anesthesia: Trends, themes and threads for curriculum re-design, 14th Annual Conference of Philippines Society for Education Research and Evaluation (PSERE).

Calimag, Ma. M.V.P (2006 My 25-26). Information and Communication Technology (ICT) Integration in Anesthesia: Trends, Themes and Threads for Curriculum Re-design, Annual Conference of PSERE.

Martin-Braganza, C. (2005 O). An Exploratory Study on the Neuromuscular-Blocking Activity of *Cestrum Nocturnum* Extract in an In-vivo Cat Model, 5th Annual Meeting of the International Society for Pharmacovigilance.

Martin-Braganza, C. (2005 O). Parecoxib vs. Ketorolac for Postoperative Pain Relief in Patients for Gynecologic Surgery, 5th Annual Meeting of the International Society for Pharmacovigilance.

Gabriel, R.,; Doria,C.,; Ribleza, B.; (2005 Mr). kasiglahan at Kaayusan ng Pook Maisan: A Sustainable Community-based Health Development Program, UST Graduate School.

Calimag, Ma. M.V.P (2005 F). The MINERVA Instructional System Design Model and Alternative Reformatted Anesthesia Curriculum Hybridized for Neoconstructivists E-

Learning (ARACHINE), 38th Congress of the Association of the Philippines Medical Colleges (APMC) Edsa Shari-la, Philippines.

Calimag, Ma. M.V.P (2005 F). Benchmarking Technology Intergation: Addressing Pressure Towards a Globally Relevant Medical Curriculum, Congress of Association of Philippine Medical Colleges (AMPC) Edsa, Shangri-la, Philippines.

Calimag, Ma. M.V.P (2004 S). Crystalloids vs. Colloids for Preloading during Spinal Anesthesia, Scientific Paper Presentation of the UST Anesthesia Department.

Calimag, Ma. M.V.P (2004 O). Developing a Model for Epidural Administration of Drugs in the Rat, Congress of the International Society for Anesthetic Pharmacology, Las Vegas Nevada, USA.

Madarang, M. (2004 O). Antinociceptive Effect of Epidural Parecoxib in a Rat Model of Thermal Pain, Congress of the International Society for Anesthetic Pharmacology, Las Vegas Nevada, USA,.

Calimag, Ma. M.V.P (2004 O). Population Pharmacodynamics of Epidural Blockade with 0.5% Ropivacaine and Varying Concentrations of Glucose among Patients Scheduled for Major Gynecologic Surgery: A Randomized, Double-Blind, Placebo-Controlled Trial , International Society for Anesthetic Pharmacology in Las Vegas Nevada, USA.

Martin-Braganza, C. (2004 N). An Exploratory Study on the Neuromuscular-blocking Activity of Cestrum Nocturnum Extract in an In-vivo Cat Model, Annual Scientific Paper Presentation of the UST Anesthesia Department.

Policarpio, R. (2004 N). The Perioperative Questionnaire: A Tool for Risk Stratification in Adult Surgical Patients, Scientific Paper presentation of the UST Anesthesia Department.

Calimag, Ma. M.V.P (2004 N). The Perioperative Questionnaire: A tool for Risk Strafication in Adult Surgical Patients, Scientific Paper Presentation of the UST Anesthesia Department.

Calimag, Ma. M.V.P (2004 Ap). The Problem-Based Learning Curriculum through the Lens of Systems Analysis, 3rd National Research Congress.

Martin-Braganza, C. (2003 N). An Exploratory Study on the Neuromuscular Blocking Property of Cestrum nocturnum in an in-vivo cat model , 22nd Scientific Paper presentation of the UST Anesthesia Department.

Matignas, M. (2003 N). Epidural Bupivacaine-Nalbuphine and IV Ketorolac for Postoperative Pain Relief, 22nd Scientific Paper Presentation of the UST Anesthesia Department.

Calimag, Ma. M.V.P (2003 Ap 8). Population Pharmacodynamics of Epidural Blockade with 0.5% Ropivacaine and Varying Concentrations of Glucose among Patients Scheduled for Major Gynecologic Surgery: A Randomized, Double-Blind, Placebo-Controlled Trial , Master of Science in Clinical Epidemiology, Funded by the Leopoldo pardo Research Chair in the Basic Science and the Philippine Council for Health Research and Development.

Calimag, Ma. M.V.P (2002 N). Pharmacokinetics of Volatile Anesthetics , Module for the Distance Education in Anesthesia .

Matignas, M. (2002 N). The Analgesic Pattern of Epidural Bupivacaine 0.1%-Nalbuphine 0.04% Mixture Among Patients Scheduled for Major Lower Abdominal Surgery: A Randomized Double-Blind Trial (jointly funded by ASTRAZENECA, Boots Pharma and B Braun) , 21st Annual UST Anesthesia Residents' Scientific Paper Contest .

Calimag Ma.Minerva V.P (2002 My). Developing an Obstetric Anesthesia Evaluation and Management Center: A Concept Paper in Organizational, 99th Annual PMA Convention Manila Midtown Ramada Hotel, Manila .

Calimag Ma.Minerva V.P (2001 O 17). The Expanding Role of Evidence-Based Pharmacologic Therapy: What is the Proof? Where is the Evidence? , 4th Postgraduate Course in Clinical Pharmacology, UST.

Aypa, N. (2001 N). Predictors for Adverse Respiratory Events in the Post-Anesthesia Care Unit among Filipino Adult Patients: A Model for Risk Assessment using Logistic Regression Analysis, University of Sto.Tomas .

Calimag, Ma. M.V.P (2001 N). Economics and Obstetric Anesthesia , Inaugural Congress of the Obstetric Anesthesia Society for Asia and Oceania (OASAO), Cebu City.

Tjahjono, S. (2000 N). The Effect of Glucose Concentration on the Epidural Spread of 0.5% Ropivacaine Among Patients Scheduled for Major Lower Abdominal Surgery:A Randomized, Double-Blind, Placebo-controlled Trial Abstracts the 12th ASEAN Congress of Anesthesiologists, Cebu City, November 2001 , 19th Annual UST Anesthesia Residents' Scientific Paper Contest November 2000) .

Agapito, D. and Ora, G. (2000 N). The Effects of Lidocaine Alone, Verapamil Alone and a Combination of Lidocaine and Verapamil Pretreatment on Bupivacaine-induced Cardiac Toxicity in an Animal Model , 20th Annual UST Anesthesia Residents' Paper Presentation, UST, Manila.

Calimag, Ma. M.V.P (2000 N). Herbals, Natural Products and Anesthesia , 12th ASEAN Congress of Anesthesiologists, Cebu City.

Calimag, Ma. M.V.P (2000 My 5). The Need for an Obstetric Preanesthetic Evaluation and Management Clinic:A Prescription for Change in Health Policy , Philippine Society of Anesthesiologists Inc., Midyear Postgraduate Course at Marco Pola Hotel Davao City .

Calimag, Ma. M.V.P (2000 Mr 4). Anesthetic Preparation for Emergency Surgery , ATMA JAYA University in Jakarta, Indonesia .

Calimag, Ma. M.V.P (2000 Mr). Developing an Obstetric Anesthesia Evaluation and Management Center: A Concept Paper in Organizational Management Course , Management Course in Research Organization and Management, UP College of Medicine, Manila.

Calimag, Ma. M.V.P (2000 Mr). Patterns of Volatile Anaesthetic Utilization Among Anesthesiologists in a Tertiary Teaching Hospital:The Need for a Pharmacoeconomic "Wake-up" Policy for the "Sleep Agents" , Principles and Techniques of Health Policy Formulation UP College of Medicine, Manila .

Alejandria, I. (2000 Mr). The Effect of Baricity on Onset, Spread and Depth of Sensory and Motor Blockade following Intrathecal Injection of 0.5% Bupivacaine: A Meta-Analysis , Synthesis of Research, UP College of Medicine, Manila.

Calimag, Ma. M.V.P (2000 Mr). Changing the Anesthesiologists' Prescribing Practice Patterns through Pharmaceutical Practice Guidelines: A Reaction Paper on Anesthesia Practice Guidelines , Partial Fulfillment of the Course in Introduction to Pharmacoepidemiology, UP College of Medicine, Manila.

Dela Vega, S. and Sun-Cua, A. (2000 Mr). Factors Associated with Chronic Pain-Coping Behavior Among Elderly Non-Cloistered Nuns , Fundamentals of Clinical Economics, Health, Social Science and Ethics in Research, UP College of Medicine, Manila.

Calimag, Ma. M.V.P (1999 N 6). Anesthetic Effects on Fetal Memory and Cognition: Do

Anesthetics Lower Intelligence, Fetus as a Patient Institute, 8th Annual Convention at the GSIS Theater, Pasay City.

Javelosa, L.I. (1999 Je 29-21). Pharmacokinetic Profile of Isobaric Bupivacaine 0.5% and Isobaric-hyperbaric Mixture of Bupivacaine 0.5% in the Epidural Space: A Radionuclide Study in Dogs, Philippine Journal of Anesthesiology, Book of Abstracts of the 12th World Congress of Anaesthesiologists, Montreal, Canada .

Calimag, Ma. M.V.P (1999 D12). Pharmacokinetics of Volatile Anesthetics, Philippine Society of Anesthesiologists, Inc., Annual Convention and Refresher Course, Manila Midtown Ramada Hotel, Manila.

Crisostomo, N. and PSA Committee RUV (1999). Relative Unit Values for Anesthesiologists: An Agenda for Reform (Philippine Society of Anesthesiologists Newsletter, The PSA Central Tagalog; Regional Forum, Laguna.

Javelosa, L.I. (1998 Mr 22). Pharmacokinetic Profile of Isobaric Bupivacaine 0.5% and Isobaric-hyperbaric Mixture of Bupivacaine 0.5% in the Epidural Space: A Radionuclide Study in Dogs" Philippine Journal of Anesthesiology 11(1) , 34th Annual Convention of the Manila Medical Society, MMS-Colegio Medico-Farmaceutico de Filipinas, Inc .

Calimag, Ma. M.V.P (1998 D 9). Special Aspects of Perinatal Pharmacology, Philippine Society of Anesthesiologists, Inc., Annual Convention, Shangri-la EDSA Plaza Hotel, Philippines.

Javelosa, L.I. (1998 D). Pharmacokinetic Profile of Isobaric Bupivacaine 0.5% and Isobaric-hyperbaric Mixture of Bupivacaine 0.5% in the Epidural Space: A Radionuclide Study in Dogs , Philippine Journal of Anesthesiology, 8th Philippine Society of Anesthesiologists-SmithKline Beecham Annual Scientific .

Arguelles, G. (1996 N). A Double-blind, Randomized Trial Comparing Isobaric-hyperbaric Mixture of Bupivacaine 0.5% with Isobaric bupivacaine 0.5% alone for Epidural Anesthesia in Abdominal Surgery Abstracts of the 3rd Biennial Congress of the Asian and Oceanic Society of Regional Anesthesia (AOSRA), Manila , 6th Philippine Society of Anesthesiologists SmithKline Beecham Annual Research Paper Contest.

Guevarra, RE, Ferrer, MJH, and De Castro, LR (1995 N). Epidural Block with Hyperbaric 0.5% Bupivacaine: A New Technique to hasten the Onset and Spread of Epidural Anesthesia, 5th Philippines Society of Anesthesiologists Smithkline Beecham Annual Research Paper Contest.

Esguerra, C. and De Castro, L.R. (1994 JI-D). Prolonged Apnea in Pre-eclampsia: The Vagaries of its Multiple Causation, SMPCH V3 N2.

Staff of the Department of Pharmacology (1994 Ja-Mr). Antimicrobial Utilization Pattern in a Tertiary Teaching Training Hospital, Santo Tomas Journal of Medicines.

Guevarra, RE, Ferrer, MJH, and De Castro, LR (1994 Ja-Je). Epidural Block with Hyperbaric 0.5% Bupivacaine: A New Technique to hasten the Onset and Spread of Epidural Anesthesia, SMPCH V3 N1.

Guevarra, RE, Ferrer, MJH, and De Castro, LR (1993 N). Epidural Block with Hyperbaric 0.5% Bupivacaine: A New Technique to hasten the Onset and Spread of Epidural Anesthesia, SMPCH Annual Research Paper Contest.

Torralba, SM, and Milo, EM (1993 My 27). Axillary Brachial Plexus Block: An Anatomical and Clinical Study, 12th Annual UST Anesthesia Residents Paper Presentation.

Madrillijo, LJ and De Castro, L.R. (1993 JI-D). Airway Management in Facial Cleft Patient: A Potential Clinico-Anatomic Misadventure, SMPCH.

Macapinlac, MH and Bautista, RD (1992 My 28). Validation of Indices for Predicting Optimal Tube Size and Tube Length Among Filipino Infants and Children Santo Tomas Journal of Medicine, 11th Annual Anesthesia Residents Paper Presentation.

Lerma, J.V. and Lerma, N.V. (1992 My). An Herbal Alternative in the Treatment of Ulcerative and Follicular Lesion of the Oral Cavity and Oropharynx: A Study on the In-vitro and In-Vivo Efficacy of Ipomea muricata, Annual Otorhinolaryngology Research Paper Contest.

Macapinlas, MH and Bautista, RD (1992 My). Validation of Indices for Predicting Optimal Tube Size and Tube Length Among Filipino Infants and Children Santo Tomas Journal of Medicine, Annual Otorhinolaryngology Research Paper Contest.

Ferrer, J.M.R., De Castro, L.R. (1992). A Comparative Study on the Clinic Pharmacodynamic of Infratheorbital Bupivacaine and Lidocaine-Epinephrine for Cheiloplasty in the Pediatric Age Group, 2nd International Cleft Society Convection, Taipei, Taiwan.

Torralba, SM (1991 My 27). The shape Sorter 2: Its Application in Pediatric Outpatient Procedure, 10th Annual UST Anesthesia Resident Paper Presentation.

Guererro, R. (1991 My 27). Aerosolized Lidocaine: An Alternative to Lidocaine Spray, 10th Annual UST Anesthesia Resident Paper Presentation, 1st Philippines Society of Anesthesiologists Smithkline Beecham Annual Research Paper Contest.

Patawaran-Calimag, M.M.V., Lansangan, P. (1991 My 27). A Comparison of Indices for Predicting optimal Tube Size and Tube Length Among Filipino Infants and Children, 10th Annual UST Anesthesia Residents Paper Presentation, 1st Philippines Society of Anesthesiologists Smithkline Beecham Annual Research Paper Contest.

Lerma, JV (1991 My). Fatal Fever: A Clinic-Pharmacologic Misadventure, Annual Otorhinolaryngology Research Paper Contest.

Lerma, JV (1991 JI). HEADACHE: Eliminating a Major Source of Headache Among Clinics, Annual Otorhinolary Research Paper Contest.

Ferrer, J.M.R., De Castro, L.R., Calimag, M.M.V.P. (1991 D). A Comparative Study on the Clinic Pharmacodynamic of Infratheorbital Bupivacaine and Lidocaine-Epinephrine for Cheiloplasty in the Pediatric Age Group, 1st Philippines Society of Anesthesiologists Smithkline Beecham Annual Research Paper Contest.

Patawaran-Calimag, Ma. M.V., Ong-Siong, V. (1989 N). A Multivariate Prediction Index for Difficult Intubation in Filipinos, 6th ASIAN Congress of Anesthesiologists, PICC, Manila.

Pua, S. (1987 JI 9). Trends Among Family Planning Acceptors in an Urbanized Rural Community, 26th Manila Medical Society Colegio Medico-Farmaceutico de Filipinas, Inc., Annual Scientific Paper Contest.

Constantino H. (1986 My 18). A Probabilistic Approach in Predicting the Odds for Transfusion During Adult Surgery, 5th Annual UST Anaesthesia Resident's Scientific Paper Contest.

Calimag, Ma. M.V.P (1986). Airway Management during Cardio-pulmonary Resuscitation in Filipinos: A New Perspective, UST Annual Interdepartmental Scientific Paper Contest.

Uy, B., Lmas, E (1985 D 3). New Dimension in the Management of the Pediatric Airway, The Philippines Society of Otolaryngology-Head and Neck Surgery-Boehringer Ingelheim Clinic Research Contest.

Calimag, Ma. M.V.P (1984 My 18). Normative Data on Circoid Ring Size Among Filipinos

in relation to Acquired Subglottic Philippines Journal of Anesthesiology, 3rd Annual UST Anesthesia Resident's Science Paper Contest, 78th PMA Annual Convention PMA-Abbot Scientific Paper Contest, Baguio City.

Calimag, Ma. M.V.P (). Redefinition and Codification of Database Schema of the Philippine Board of Anesthesiology, Philippines Board of Anesthesiology.

Calimag, Ma. M.V.P (). Global Imperatives Toward Humanism in Medical Education: A Metasynthesis of Historical Documentary Evidence , The Auspices of the UST Center for Educational Research and Development .

Publications

- 2007 Patawaran-Calimag, Ma. M.V. Opioid use in the Philippines - 20 years after the World Health Organization (WHO) analgesic ladder. *European Journal of Pain*, 2007 S, 6.
- 2006292 Patawaran-Calimag, Ma.M.V., Javier, F. Opioid use in the Philippines, 20 years after the World Health Organization (WHO) ladder . 1st Congress of the Association of Southeast Asian Pain Societies (ASEAPS) for the Pain Society of the Philippines, Manila Philippines, 2006 N 29-D 2.
- 20062526 Patawaran-Calimag, M.M.V. Information and communication technology (ICT) integration in anesthesia: Trends, themes and threads for curriculum re-design. 14th Annual Conference of Philippines Society for Education Research and Evaluation (PSERE), 2006 My 25-26.
- 2006 Calimag, Ma. M.V.P The Perioperative questionnaire: A tool for risk stratification in adult surgical patients. *Philippines Journal of Anesthesiology*, N1, 2006 Je, 18(011-2386).
- Calimag, Ma. M.V.P. Acoustic neuroma and pregnancy: A balancing act. PSA Annual Case Presentation Contest, *Philippine Journal of Anesthesiology* N2, 2006 D, 18(0115-2386).
- Calimag, Ma. M.V.P. Acoustic neuroma and pregnancy: A balancing act. *Philippine Journal of Anesthesiology*, 2006 D, 18(0115-2386).
- Calimag, Ma. M.V.P Information and communication technology (ICT) integration in anesthesia: Trends, themes and threads for curriculum re-design. *The Journal of the Philippines Society for Education Research and Evaluation*, 2006 Ag, 7(1656-376X).
- 2004 Patawaran-Calimag, Ma. M.V., Toledo, L. Nebulized midazolam: A new mode of sedation . Abstracts of the IUPHAR-7th Asian/Western Pacific Regional Meeting of Pharmacologists Manila Hotel, Manila/Santo Tomas *Journal of Medicines*, 2004 O.
- Patawaran-Calimag, Ma. M.V. and Martin-Braganza C. Parecoxib vs. Ketorolac for postoperative pain relief in patients for gynecologic surgery. Scientific Paper presentation of the UST Anesthesia Department, 2004 N.
- Policarpio, R. The perioperative questionnaire: A tool for risk stratification in adult surgical patients. Scientific Paper presentation of the UST Anesthesia Department, 2004 N.
- 2003 Patawaran-Calimag, Ma. M. V. and Matignas, M. Epidural bupivacaine-nalbuphine and IV ketorolac for postoperative pain relief . *The Philippine Journal of Anesthesiology* , 2003 N, V17(0115-2386).
- 2001 Calimag, Ma. M.V.P Changing the pre-anesthetic evaluation process for obstetric patients: A utility analysis . *Philippine Journal of Anesthesiology*, 2001, V13(92-98).

- Calimag, Ma. M.V.P. The need for an obstetric pre-anesthetic evaluation and management clinic: A prescription for change in health policy. *Philippine Journal of Anesthesiology*, 2001, 13(92-98).
- Patawaran-Calimag, Ma. M.V., Lerma, D.V. and Lerma, I.M. Utilization pattern of a students' Health Service: The UST experience . *The Santo Tomas Journal of Medicine*, 2001, V50(0115-1126).
- 2007 Calimag, Ma. M.V.P Patterns of volatile anesthetic utilization among anesthesiologists. *The Journal of the Philippine Medical Education* , 2--6-2007, V86.
- 1999 Patawaran-Calimag, Ma. M.V. Drug utilization patterns and their determinants among self-medicators of common illnesses in Bgy. 402 Zone 41, 4th District, Sampaloc, Manila. *Santo Tomas Journal of Medicine*, 1999 JI-S.
- Patawaran, G. A modified unipolar thermal wire system . *Philippine Journal of Ophthalmology*, 1999 JI S.
- 1998 Calimag, Ma. M.V.P Drug monographs on non-steroidal anti- inflammatory drugs . *Philippine National Drug Formulary*, 1998 S.
- 1986 Calimag, Ma. M.V.P Filipino tracheal circumference as an index of correct cuff size: A study on volume-pressure relationship in inflatable cuffs. *Journal of Manila Medicine Society, Inc.*, 1986 Ja -Mr, 21(3).
- Calimag, Ma. M.V.P Norman data on cricoid ring size among Filipino in relation to acquired subglottic. *Philippines Journal of Anesthesiology*, 1986 D, 8.
- Patawaran-Calimag, Ma. M.V., Co, B. Principles of Drug Interaction Handbook of Medical and Surgical Emergencies. UST Faculty of Medicine and Surgery, .
- Ronquillo, J. Pharmacodynamics of pre-emptive and time-contingent analgesic regimen for parecoxib in patients for major gynecologic surgery. *Philippine Journal of Anesthesiology*, , V17(0115-2386).
- Sitson, B. Operating room cancellations. *Causations and Economic Impact*, .
- Calimag, Ma. M.V.P The Renaissance University. Of Dreams and Reawakening the Moral Life of Schools, .
- Patawaran-Calimag, Ma. M.V. and Ronquillo, J. Parecoxib vs. ketorolac for postoperative pain relief in patients for gynecologic surgery. *Drug Safety ISSN 0114-5916 Impact Factor 3.327* , , 28(10):936.
- Calimag, Ma. M.V.P Philippine Clinical Practice Guidelines for preoperative evaluation of surgical patients. *Philippines Society of Anesthesiology, Inc.*, .
- Calimag, Ma. M.V.P From scientism to humanism: Situating learning scenarios in Medical Education. *Journal of Medical Education Impact Factor* , .
- Patawaran-Calimag, Ma. M.V. Normative Data on Cricoid Ring Size Among Filipinos in relation to Acquired Subglottic. *Philippines Journal of Anesthesiology*, .

Name **Ma. Lourdes G. Rebullida**

Organizational Affiliations

Professor 8, College of Social Sciences and Philosophy , Dept. of Political Science, UP Faculty Center, Diliman, Quezon City

Chair, Committe on Health Research Capacity Building, Philippine National Health Research System,

Fields of Specialization

Political Science, Public Administrator

Environmental Policy

Health Policy and Health Social Sciences

Housing and Urban Development

Organization Development and Human Resources Development

Association Membership

Member, National Research Council of the Philippines (NRCP)

Honors / Awards

Federico Aguilar Alcuaz Professor Chair for Professor of Political Science, UP 2003-2004 F

Trainings

Workshop on Ethical Infrastructure for the Philippine Pharmaceutical Sector, Manila Pavillon Hotel, Manila 2006 N28-29

Workshop on Formulating the Vision and Mission Statement of the Human Resources for Health Network, DOH HHRDB 2006 N 28-29

Training of Country Assessors on Ethical Practices in Med. Reg., Sel. & Procurement, WHO, Cambodia 2006 Mr

Asia-Africa Eco Partnership Program;Capacity Building for Bil. Relationship, UNDP and City of Marikina 2006 JI 31-Ag 2

Workshop of the Research program on the Political Economy of the Tobacco Industry in Southeast Asia, Bangkok, Thailand 2003 S

Researches

Completed

Promoting ethical practices in medicines registration, selection and procurement

Investigating the tobacco industry in southeast asia: The philippine experiences with the tobacco and tobacco control

Innovative health science education program evaluation

Capacity enhancement program for Department of Health Representative in National-Local Government Relationships

On-going

Developing a barangay level monitoring system on the millenium development goal (Goal 7 Target 11)

Recycling in the Philippines (Phase II)

Social economic monitoring of communities around the dual power station

Papers Presented

Rebullida, M.L.G. (2006 S 28-29). Strategic Plan and Implementation Plan for Health Research Capacity Building, PCHRD-DOH Health Research Forum, Pan Pacific Hotel, Manila.

Rebullida M.L.G. (2006 O 30-31). Promoting Ethical practices in Medicines Registration , Selection and Procurement in the Philippines, Stakeholders Meeting/ WHO, Geneva, Switzerland.

Rebullida, M.L.G. (2006 O 23). Synthesis of Issues: Policy Dialogue on Conscripton in the Health Professions (Housebill 3316), UP Center for Integrative and Development Studies, UP Diliman Bahay Kalinaw, Quezon City.

Rebullida, M.L.G. (2003 S). Investigating the Tobacco Industry in Southeast Asia: The Philippine Experiences with the Tobacco Industry and Tobacco Control, Workshop of the Research program on the Political Economy of the Tobacco Industry in Southeast Asia, Bangkok, Thailand.

Rebullida, M.L.G. (2003 O). Solid Waste Management for Economically Developing Countries, Best Practices in Solid Waste Management among Afro-Asian Countries Multilateral Training Programme on Waste Management. UNDP Africa Asia Eco-Partnership, Pasig City.

Rebullida, M.L.G. (2003 O). Politics, Public Policy, and Governance, Annual Political Science Conference, Davao.

Rebullida, M.L.G. (2003 Je). Health Human Resources Development: Policies and Effects on the Health Professions, 1st Roundtable Discussion on Health Human Resource Development of a National Framework, NIH-Institute of Health Policy and Development Studies, Manila.

Rebullida, M.L.G (2003 D). Globalization, Development and the Urban Environment: Change Processes, Civil Society and State Interventions in the Philippines, Philippine Studies Conference, Manila.

Publications

2006 Rebullida, M.L. Serrano, C.. Bureaucracy and public management in democracy, Development and governance in the Philippines. Philippine Politics and Governance, 2006.

Rebullida, M.L Executive power and presidential leadership: Philippine Revolution to Independence. Philippine Politics and Governance, 2006.

Rebullida, M.L. The Philippine executive: martial law, constitutional authoritarianism and the marcos administration.. Philippine Politics and Governance, 2006.

Rebullida, M.L. The Philippine executive and redemocratization. Philippine Politics and Governance, 2006.

Rebullida, M.L. Religion, church and politics in the Philippines.. Philippine Politics and Governance, 2006.

- Rebullida M.L.G. Capacity building for health research: situationer, capacity building plan, and TWG work plan. Philippine National Health Research System Monograph, 2006.
- 2003 Rebullida, M.L.G. Politics of the Urban Poor Housing Need: Civil Society-State Dynamics. Philippine Political Science Journal, 2003, 24(27):37-68.
- Rebullida, M.L.G. The urban environment and community based ecological solid waste mangement. Kasarinlan A Philippine Journal of Third World Studies, 2003, 17(1):139-159.
- Rebullida, M.L.G. Training needs assessment of sanitation officers for capacity building in integrated health and environment in local government units. Philippine Health Systems Research, 2003:27-51.
- 2001 Rebullida, M.L.G. Behavior dimensions of tobacco use and prevention: Overview of social, cultural, economic legal, media issues and concerns. The UP Manila Journal, 2001 Ja-Mr.
- 2000 Rebullida, M.L.G. Survey of clients preference of service providers' characteristics in obstetrics and gynecology. UP Manila Journal, 2000 JI-S, 5(3).
- Rebullida, M.L.G. Prospects for better productivity and quality of SMEs. Small and Medium Enterprises in Asian Pacific Countries, Volume 111, Chapter 1, Mona Asri Abdulian and Moon, Isa on Bakar, eds., 2000, 3.
- Rebullida, M.L.G. Resource recovery and solid waste management : Strategies, initiatives, and policy issues. PIDS, 2000.
- Rebullida, M.L.G. Integrated population, development, environment indicators for local government units. Measuring Good Governance in the Philippines, (Magdalena L. Mendoza, ed.), 2000:103-211.
- 2006 Rebullida, M.L.G. Philippine commitment to primary health care. Public Policy Journal, 2006 Ja-Je, 101.

Name **Adoracion Resurreccion**

Organizational Affiliations

Associate Scientist, International Rice Research Institute, Los Baños, Laguna

Education

Ph. D. Agricultural Science, Tohoku University, Sendai, Japan 2002 Mr

M.S. Agricultural Chemistry, UPLB, Los Baños, Laguna 1972 D

B.S. Chemistry, UP Diliman, Diliman, Q.C 1968 D

Fields of Specialization

Chemistry

Employment

Assistant Scientist II, Associate Scientist, IRRI, PBGB and GQNPC, April 2003-present-

Assistant Scientist I, IRRI, Plant Molecular Biology Laboratory, 1998 Ja-2003 Mr-

Senior Research Assistant, IRRI, Cereal Chemistry, PMBL, 1997 O-D-

Research Assistant, Iowa State University, Dept. of Food Technology, 1981 S-1987 Ag-

Research Assistant, IRRI, Cereal Chemistry, 1973 F-1980 D-

Research Assistant, UPLB-NRCP, 1970 Ja-1971 F-

Quality Control Analyst, E.R. Squibb & Sons Drug Co., 1968 D-1969 My-

Chairman, Board of Chemistry, Professional Regulation Commission, 2004 - present-

Association Membership

Chairman, Board of Chemistry, Professional Regulation Commission

Member, Kapisanan ng mga Kimiko sa Pilipinas

Member, Integrated Chemists of the Philippines

Regular Member, National Research Council of the Philippines

Member, Philippine Association of Professional Regulatory Boards

Member, IRRI Filipino Scientists Association

Honors / Awards

BS Scholar, National Science Development Board (DOST formerly NSBD) 1964-1968

RONPAKU Fellow, PhD, Japan Society for the Promotion of Science 1997-2002

Kapisanan ng mga Kimiko sa Pilipinas (Southern Tagalog Chapter) , Los Baños, Laguna, Award in Research 2007 N

Best Paper Award "Conversion of RFLP Markers to sequence-tagged sites", Federation of the Crop Science Societies of the Philippines 1994 My

Award in Research, Kapisanan ng mga Kimiko sa Pilipinas (Southern Tagalog Chapter), Los Baños, Laguna 2007 N

Trainings

Research Data Management Course, International Rice Research Institute, Los Baños, Laguna 2008 D 2-4

Basic Experimental Design , International Rice Research Institute, Los Baños, Laguna 2007 Mr 26-30

Gender and Diversity: Dignity Advisors Training , International Rice Research Institute, Los Baños, Laguna 2007 Jl 16-18

Supervisory Effectiveness Program , International Rice Research Institute, Los Baños, Laguna 2005 N

Multi-Angle Laser Light Scattering using the DAWN by Wyatt Technology, Sta. Barbara, California, USA 2004 N 17-19

Word, Excel, Access, Powerpoint , International Rice Research Institute, Los Baños, Laguna 2003-2005

Genome Analysis of Plants, Pests and Pathogens, International Center for Genetic Engineering and Biotechnology, New Delhi, India 1993 F 8-27

Researches

Completed

Rice starch structure in relation to grain quality

Fatty acids in rice

Enzymes in the rice grain

Nutrient content and distribution in the rice grain

Rice proteins, indigestible fraction of rice protein bodies

Rice grain quality

Analysis of vitamin A in fortified rice grains by HPLC

Studies on flavor-binding to soy proteins by GC and HPLC

Purification and quantitative analysis of glycinin and β -conglycinin in soybeans

Volatile components of raw and cooked rice by GC-MS

Terminal sequencing of RFLP markers

Rubisco and chlorophyll levels in the flag leaf of rice during grain filling

Proteomics of S deficient /sufficient plants

Relationship of sulfur nutrition, plant growth and oxidative stress tolerance

Fatty acids in coconut at different stages of maturity

Papers Presented

Resurreccion, A.P., Murphy, P.A. (1983). Quantitative Determination of Soy Protein by Rocket Immunoelectrophoresis, Regional Meeting of AOAC, Ames, Iowa, USA.

Publications

2009 Juliano, B.O., Perez, C.M., Resurreccion, A.P. Apparent amylose content and gelatinization temperature types of Philippine rice accessions in the IRRI gene bank. The

Philippine Agricultural Scientist (Research Note), 2009.

Fitzgerald, M.A., Bergman, C.J., Resurreccion, A.P., Mller, J., Jimenez, R., Reinke, R.F., Martin, M., Blanco, P., Molina, F., Ming-Hsuan Chen, M-H., Kuri, V., Romero, M.V. Addressing the dilemmas Amylose in Rice. *Cereal Chemistry*, 2009, 86(5):0908200917-49.

Fitzgerald, M.A., Resurreccion, A.P. Maintaining the yield of edible rice in a warming world. *Functional Plant Biology*, 2009, 36(12).

- 2002 Resurreccion, A.P., Makino, A., Bennett, J., Mae, T. Effect of light intensity on the growth and photosynthesis of rice under different sulfur concentrations. *Soil Science and Plant Nutrition*, 2002, 48:71-77.
- 2001 Resurreccion, A.P., Makino, A., Bennett, J., Mae, T. Effects of sulfur nutrition on the growth and photosynthesis of rice. *Soil Science and Plant Nutrition*, 2001, 47:611-620.
- 1994 Resurreccion, A.P., Villareal, C.P., Parco, A., Second, G., Juliano, B.O. Classification of cultivated rices into indica and japonica types by the isozyme, RFLP and two milled-rice methods. *Theory of Applied Genetics*, 1994, 89:14-18.
- Villareal, C.P., Resurreccion, A.P., Constantino, S.V., Robeniol, J.M., Bennett, J. Conversion of RFLP markers to sequence-tagged sites for chromosome 1 of rice. *Rice Genetics Newsletter*, 1994, 11:120-124.
- 1993 Resurreccion, A.P., Li, X., Okita, T.W., Juliano, B.O. Characterization of poorly digested protein of cooked rice protein bodies. *Cereal Chemistry*, 1993, 70:101-103.
- 1991 OKeefe, S.F., Wilson, L.A., Resurreccion, A.P., Murphy, P.A. Determination of the binding of hexanal to soy glycinin and β -conglycinin in an aqueous model system using headspace technique. *Journal of Agricultural Food Chemistry*, 1991, 39:1022-1028.
- OKeefe, S.F., Resurreccion, A.P., Wilson, L.A., Murphy, P.A. Temperature effect on the binding of volatile flavor compounds to soy protein in aqueous model systems. *Journal of Food Science*, 1991, 56:802-806.
- Juliano, B.O., Hussain, A., Resurreccion, A.P., Bushuk, W. Effect of phytate on the aluminum lactate PAGE pattern of brown rice protein. *Cereal Chemistry*, 1991, 68:317-318.
- 1984 Murphy, A.P., Resurreccion, A.P. Varietal and environmental differences in soybean glycinin and β -conglycinin content. *Journal of Agricultural Food Chemistry*, 1984, 32:911-915.
- 1981 Resurreccion, A.P., Juliano, B.O. Properties of poorly digestible fraction of protein bodies of cooked milled rice. *Qual. Plant, Plant Foods Human Nutrition*, 1981, 31:119-128.
- 1979 Resurreccion, A.P., Juliano, B.O., Tanaka, Y. Nutrient content and distribution in milling fractions of rice grain. *Journal of Science Food Agriculture*, 1979, 30:475-481.
- Banzon, J.A., Resurreccion, A.P. Fatty acid distribution in coconut oil obtained by four processing methods and secured from four Philippine types of coconuts. *Philippine Journal of Coconut Studies*, 1979, 4(2):1-8.
- Padua-Resurreccion, A.B., Banzon, J.A. Fatty acid composition of the oil from progressively maturing bunches of coconuts. *Philippine Journal of Coconut Studies*, 1979, 4(3):p 1-15.
- 1978 Resurreccion, A.P., Juliano, B.O., Eggum, B.O. Preparation and properties of destarched milled rice. *Nutrition Reports International*, 1978, 18:17-25.

- Tanaka, Y., Resurreccion, A.P., Juliano, B.O., Bechtel, D.B. Properties of whole and undigested fraction of protein bodies of milled rice. *Agric Biol Chem*, 1978, 42:2015-2023.
- 1977 Resurreccion AP, Hara T, Juliano BO and Yoshida S Effect of temperature during ripening on grain quality of rice. *Soil Sci Plant Nutrition*, 1977, Vol 23:109-112.
- Eggum BO, Resurreccion AP and Juliano BO Effect of cooking on nutritional value of milled rice in rats. *Nutr Rep Int*, 1977, Vol 16:649-655.
- 1976 Villareal RM, Suzuki LB, Resurreccion AP and Juliano BO Changes in the physicochemical properties of rice during storage. *Die Starke*, 1976, Vol 26:88-94.
- 1975 Resurreccion, A.P., Juliano, B.O. Fatty acid composition of rice oils. *Journal of Science and Food Agriculture*, 1975, 26:437-439.
- Perez, C.M., Perdon, A.A., Resurreccion, A.P., Villareal, R.M., Juliano, B.O. Enzymes of carbohydrate metabolism in the developing rice grain. *Plant Physiology*, 1975, 56:579-583.
- 1974 Resurreccion, A., Padua, A.B., Juliano, B.O. Effect of parboiling on thiamin, protein and fat of rice. *Journal of Science and Food Agriculture*, 1974, 25:697-701.

Name **Fortunato III Sevilla**

Organizational Affiliations

Dean, College of Science, Research Center for the Natural Sciences, University of Santo Tomas, España, Manila

Education

Ph.D. in Instrumentation and Analytical Science, University of Manchester Institute of Science and Technology, United Kingdom 1987

M.Sc. Instrumentation and Analytical Science, University of Manchester, United Kingdom 1984

B.S. Chemistry, Summa cum laude, University of Santo Tomas, España, Manila 1968

Fields of Specialization

Chemical sensors and biosensors

Low-cost instrumentation for chemical education

Chemical Sciences

Association Membership

President, Kapisanan ng Kimika ng Pilipinas

President, Philippine Federation of Chemistry Societies

Fellow, International Union of Pure and Applied Chemistry

Fellow, Federation of Asian Chemical Societies

Member, National Research Council of the Philippines (NRCP)

Honors / Awards

Achievement Award (Chemical Sciences), NRCP-DOST 1994

Gregorio Zara Award for Applied Science, NRCP-DOST 2005

Trainings

Asiasense 2003,(Asian Conference on Sensors,) , Malaysia 2003

World Conference on Science and Technology , Manila Hotel, Manila 2001 S 13-15

Researches

Completed

Piezoelectric quartz crystal sensor for surfactant based on molecularly imprinted polymer

Development of a trimethylamine sensitive film based on bromthymol blue

Development of an optical urea sensor on a polyaniline/urease/nylon composite

Optical sensor enhancement and confirmation of a CO sensor

Studies on poly(3-methylthiophene) modified electrode for electrochemical determination of dopamine

Optical pH Sensor Based on Electrochromic Polyaniline

Optical fibre sensor for pH based on a polyaniline /nylon composite

Chemical sensors for sodium dodecyl sulfate (SDS) based on electropolymerization of pyrrole

Development of biosensors based on optical fibers

Development of a low-cost pH sensor

Surface and electrochemical studies of carbon dioxide sensor based on conducting polypyrrole

Potentiometric sensor for benzoate based on a polypyrrole conducting membrane

Chemical sensors for Sodium Dodecyl Sulfate (SDS) based on electropolymerization of pyrrole

Development of a potentiometric sensor for detergents based on conductive polyaniline

Development of a virtual experiment on heat of combustion for a general chemistry course

Potentiometric pH sensor based on an oil dispersion of tridodecylamine

Development of a non-polarimeter

Development of plant and antigenotoxicity assay based on enhanced green fluorescent protein (eGFP) expressing Escherichia coli RFM 443

Iodine-meter for iodized salt

On-going

A study of three all-solid-state configuration of a potentiometric sensor for iodide and cyanide based on a mixed AgI/Ag₂S salt

Development of an ammonia-amine sensor based on bromthymol blue, and aniline: A confirmation study

Bioaffinity piezosensor for saxitoxin

Piezoelectric quartz crystal sensor for surfactant based on molecularly imprinted polypyrrole

Optical nose for volatile organic compounds

Fruit quality sensor based on a piezoelectric crystal

Piezoelectric sensor for saxitoxin based on receptor membranes

Electronic nose for the assessment of vegetable oil quality based on conducting polymers

Papers Presented

Bartolome, A., Macalino, B., Pastoral, I., Sevilla, F. III-. (2006). Antioxidant assay using genetically engineered bioluminescent escherichia coli, SPIE.

Sevilla, F. III (2003 JI9-10). Piezoelectric Biomimetic Sensor for Detergent Based on Molecularly Imprinted Polymer Electrosynthesized Polypyrrole, 25th Annual Scientific Meeting of the NAST, Manila.

Sevilla, F. III (2003 JI9-10). Molecularly Imprinted Electrosynthesized Poly(o-phenylenediamine) Based Caffeine Sensor, 25th Annual Scientific Meeting of the NAST,

Manila.

Sevilla, F. III (2003 JI 15-17). All solid state Potentiometric Sensor for Iodide and Cyanide Based on the Oil Dispersion of Mixed AgI-Ag₂S salts, 2003 Asian Conference on Sensors, Kuala, Lumpur.

Albano, DRB Sevilla, F. III. (2003). Piezoelectric quartz sensor for sodium dodecyl sulphate based on molecularly imprinted electrosynthesized polypyrrole, Asiasense 2003,(Asian Conference on Sensors,) Malaysia.

Cabanilla, S. Ebarvia, B. Sevilla, F. III-. (2003). Piezoelectric biomimetic sensor for caffeine based on molecularly imprinted electrosynthesized polypyrrole, Asiasense 2003, (Asian Conference on Sensors,) Malaysia.

Sevilla, F. III. (2003). Chemical sensors based on conducting polymers, Asiasense 2003, (Asian Conference on Sensors) Malaysia.

Sevilla, F.T. III. (2001 S 13-15). Biomimetic piezoelectric quartz sensor for caffeine based on a molecularly imprinted polymer, World Conference on Science and Technology, Manila Hotel, Manila.

Bergantin, J.H., Sevilla, F. III. (1997). Optic chemiluminescence measurement system for hydrogen peroxide based on a solid-state hematin-luminol reagent phase, 13th Philippine Chemistry Congress.

Mandap, K., David, K., Sevilla, F. III. (). Plant antigenotoxicity assay using red fluorescent protein (RFP)-expressing bacteria, Mandap, K. David, K. Sevilla, F. III-.

Publications

- 2011 Sevilla, F. III Discrimination of Philippine Coffee Beans Using an Electronic Nose System Based on Polymer-coated Piezoelectric Quartz Crystal. Transactions of the National Academy of Science and Technology. Abstracts of Papers, 2011 JI 13-14, 33(1).
- 2011 Sevilla, F. III A Hybrid Gas Sensor Array for the Quality Assessment of Virgin Coconut Oils. Transactions of the National Academy of Science and Technology. Abstracts of Papers, 2011 JI 13-14, 33(1).
- 2011 Sevilla, F. III Fish Freshness Analysis using a Polyaniline/Nylon Composite-based Chemiresistor Sensor. Transactions of the National Academy of Science and Technology. Abstracts of Papers, 2011 JI 13-14, 33(1).
- 2011 Sevilla, F. III Performance Evaluation of Tailor Made Microspheres as Sensing Layer Responsive to Residual Chloramphenicol in Food Matrices. Transactions of the National Academy of Science and Technology. Abstracts of Papers, 2011 JI 13-14, 33(1).
- 2006 Bartolome, K., Mandap, K., David, J., Villanueva, Sevilla, F. III SOS-red fluorescent protein (RFP) bioassay system for monitoring of antigenotoxic activity in plant extracts. Biosensors and Bioelectronics, 2006:2214-2220.
- 2005 Sevilla, F. III Biomimetic properties and surface studies of a piezoelectric caffeine sensor based on electrosynthesized polypyrrole. Talanta (Netherland), 2005, 66::145-152.
- 2004 Ebarvia, B.S., Binag, C.A., Sevilla, F. III Biomimetic piezoelectric quartz sensor for caffeine based on a molecularly imprinted polymer. Analytical and Bioanalytical Chemistry, 2004, 378(5).
- Tan, J., Bergantin, J. Jr., Merkoci, A., Alegret, S., Sevilla, F. III Oil dispersion of mixed AgI/Ag₂S salts as a new electroactive material for potentiometric sensing of iodide and

- cyanide. *Sensors and Actuators B*, 2004, 101::57-62.
- 2003 Sevilla, F. III Sensors for rapid chemical analysis. *Research Highlights*, 2003 Je:9-10.
- Ebarvia, B.S., Sevilla, F. III Molecularly imprinted electro-synthesized poly(O-Phenylenediamine)based caffeine sensor. *Transactions of the National Academy of Science and Technology Philippines*, 2003, 25(1):118.
- Dharmatov Rahula, D., Albano, B., Sevilla, F.III Piezoelectric biomimetic sensor for detergent based on molecularly imprinted polymer electrosynthesized polypyrrole. *Transactions of the National Academy of Science and Technology Philippines*, 2003, 25(1):115.
- Bergantin, J.H. Jr., Sevilla, F. III Low cost colorimeter: Application to the assay of antioxidant capacity. *Acta Manilana*, 2003, 51:9-14.
- Alabanza, H., Bergantin, J. Jr., Sevilla, F. III Optical fiber sensor for pH based on a polyaniline/nylon composite. *Electrochromic Materials and Applications (The Electrochemical Society Publication)*, 2003.
- Bartolome, A.J. Sevilla, F. III. et al. Genotoxicity monitoring using a 2D-spectroscopic a GFP whole cell biosensing system. *Sensors and Actuators B: Chemical*, 2003, 89:27.
- Sevilla, F. III Chemical sensors based on conducting polymers. *Asiasense 2003, Proc.,Asian Conference on Sensors, Malaysia*, 2003:p. 87.
- Sevilla, F. III Optical sensors and biosensors. In: *Integrated Analytical Systems*, (Alegret, S. ed.), 2003.
- Tan, J. Bergantin, J, Jr, Merkoci, A. Alegret, S. Sevilla, F. III All solid state potentiometric sensor for iodide based on the oil dispersion of mixed Ag/I/Ag, S salts. In: *AsiaSense Sensor 2003*, 2003:129.
- Tongol, B.J. Binag, C.A. Sevilla, F. III Surface and electrochemical studies of carbon dioxide probe based on conducting polypyrrole. *Sensors and Actuators B: Chemical*, 2003, 93:187.
- Fortunato Sevilla, Ramaier Narayanaswamy Chapter 9 Optical chemical sensors and biosensors. *Comprehensive Analytical Chemistry*, 2003, 39(413-435).
- 2002 Albano, D.R.B. Sevilla, F. III Liquid phase measurements with a piezoelectric quartz crystal: Application to sugar solutions. *Acta Manilana*, 2002, 50(1).
- Andres, R.T. Sevilla, F. III Fiber-optic biosensors based on covalently immobilized enzymes and thymolblue. *Kimika*, 2002, 19(1):35-.
- Ebarvia, B.S. Sevilla, F. III. Biomimetic piezoelectric quartz sensor for caffiene based on a molecularly imprinted polymer. In: *Harnessing Science and Technology to Meet the Global Challenge*, 2002:274.
- Tan, J. Merkoci, A. Alegret, S. Sevilla, F. III All solid state potentiometric sensor for iodide based on a mixed AgI/Ag₂S salts/epoxy membrane. *Kimika*, 2002, 18(2):23.
- Tongol, B.J., Binag, C.A., Sevilla, F. III Fabrication of a carbon dioxide gas sensing electrode using conducting polypyrrole-based pH transducer. *Harnessing Science and Technology to Meet the Global Challenge*, 2002:303.
- 2001 Sevilla, F.T. III Surface and potentiometric properties of SO₂ sensor based on a hydrogel coated pH-FET. *Sensors and Actuators B (Netherlands)*, 2001, 76::644-652.

- Sevilla, F.T. III The teaching of analytical chemistry in the Philippines. *Kimika (Kapisanan ng mga Kimiko sa Pilipinas, Manila)*, 2001:27-33.
- 2000 Sevilla, F.T. III Optical fiber chemiluminescence biosensor for antioxidants based on an immobilized luminol/hematin reagent phase. *Analytical Letters (Marcel Dekker Press, USA)*, 2000, 33:1797-1810.
- 1999 Alipao, A.A., Sevilla, F. III Optical fiber chemiluminescence sensor for Iron (II) ion based on immobilized luminol. *Kimika*, 1999, 15(1):21-25.
- 1998 Alipao, A.A., Sevilla, F. III Optical fiber chemiluminescence sensor for dissolved oxygen based on immobilized luminol. *Acta Manilana*, 1998, 46:43-50.
- 1986 Ramaier Narayanaswamy, Fortunato Sevilla Flow cell studies with immobilised reagents for the development of an optical fibre sulphide sensor. *Analyst*, 1986, 111(9).
- Ramaier Narayanaswamy, Fortunato Sevilla III Reflectometric study of the acid—base equilibria of indicators immobilised on a styrene/divinylbenzene copolymer. *Analytica Chimica Acta - ANAL CHIM ACTA*, 1986, 189:365-369.

Name **Filomena C. Sta. Cruz**

Organizational Affiliations

Assist. Professor 5, Crop Protection Cluster, CA, UP Los Baños, Los Baños, Laguna

Head, Crop Protection Biotechnology Division, Crop Protection Cluster, CA, UP Los Baños, Los Baños, Laguna

Graduate Faculty (Member, First Sem. 2006-present), Graduate School, UP Los Baños, Los Baños, Laguna

Evaluator, Research and Extension, UPLB, UP Los Baños, Los Baños, Laguna

Education

Ph D (Plant and Molecular Virology), University of East Anglia (UEA) John Innes Centre (JIC), Norwich, UK 1996-1999

MS (Horticulture/Plant Pathology/Virology), University of the Philippines Los Baños, College, Laguna, Philippines 1982-1986

Bachelor of Science in Agriculture (Plant Pathology/ Virology), University of the Philippines Los Baños, College, Laguna, Philippines 1976-1980

Fields of Specialization

Plant and Molecular Virology

Biosafety

Crop Protection Biotechnology

Virus Disease Management

Employment

University Researcher III, National Crop Protection Center, UP Los Baños , 2003-2007-

Assistant Scientist II, Entomology and Plant Pathology Division, International Rice Research Institute, 1998-2002-

Senior Research Assistant, Entomology and Plant Pathology Division, International Rice Research Institute (IRRI), 1994-1998-

Research Assistant, Entomology and Plant Pathology Division, International Rice Research Institute (IRRI), 1984-

Graduate Assistant, Dept of Horticulture, UP Los Baños, 1983-1984-

Research Assistant, Dept of Horticulture, UP Los Baños, 1980-1982-

Association Membership

Chairman and Member, Graduate Advisory Committee

Member, Scientific and Technical Review Panel

Member, Gamma Sigma Delta Honor Society of Agriculture

Member, Philippine Phytopathological Society

Member, Association of Applied Biologists
Member, Australasian Plant Virology Society
Member, National Research Council of the Philippines

Honors / Awards

International Publication Award , UP Systems 2009
International Publication Award , UP Systems 2006
Ph.D. Fellowship, Department for International Development, United Kingdom 1996-1999
Special Achievement Award , International Rice Research Institute (IRRI) 1992
Graduate Assistantship , International Rice Research Institute (IRRI) 1984-1986
Graduate Assistantship , National Food and Agriculture Council 1983-1984
Undergraduate Scholarship , Philippine Virginia Tobacco Administration 1978-1980

Trainings

RCA-based Diagnosis of Plant Viruses, Dept. of Molecular Biol. & Plant Virology, Inst. of Biology, Univ. of Stuttgart, Stuttgart, Germany 2008 JI 28-Ag 8
Integrated Production and Pest Management for Processing Tomato, Campbell Seeds Research Center in Mexico and USA 2007 JI 28-Ag 5
International Short Course in Biosafety, Institute of International Agriculture. Michigan State University, Michigan, USA 2006 JI 30-Ag 4
Prospects and Regulatory Framework of Biotechnology with Focus on Genetically Modified Crops, Tokyo, Japan 2004 N 3-4
Introduction to SAS, International Rice Research Institute (IRRI) 2001 My 7-11
Experimental Design and Data Analysis, International Rice Research Institute (IRRI) 2001 F 16-Mr 15
Microarray and Bioinformatics Training Workshop, International Rice Research Institute (IRRI) 2001 D 3-7
Plant Genetic Engineering, John Innes Centre, Norwich, UK 1998 Mr
Protein Expression and Localization of Gene Products, John Innes Centre, Norwich, UK 1997 N
Polymerase Chain Reaction Techniques, University of East Anglia, UK 1996 My
Microscope Training Course, International Rice Research Institute (IRRI) 1987
Electron Microscopy Techniques and Applications, International Rice Research Institute (IRRI) 1984

Researches

Completed

Method development for the detection of leaf mottling pathogen in calamansi and sweet orange
Development of regulatory file for PRSV resistant papaya: Survey and identification of other papaya virus diseases
Development and commercialization of multiple virus resistant tomato: Variability of

cucumber mosaic virus (CMV) and tomato leaf curl virus (ToLCV)

On-going

Occurrence of abaca virus diseases, and identification, characterization, genomics and genetic variability of virus species and strains causing abaca bunchy top

Establishment of serological and molecular-based diagnostics for the development of multiple and durable virus resistant abaca (*Musa textilis* Nee)

Development of IPM strategies for sustainable processing tomato production in the Ilocos Region: Management of the devastating leaf curl disease and its whitefly vector through cultural and nutrient management approaches, and induced virus resistance

Development and commercialization of Papaya Ringspot Virus (PRSV) Transgenic Resistant Papaya

Tomato leaf curl management

Papers Presented

Sta. Cruz, F. C. (2004 N 3-11). Research and Development for Genetically Modified Crops and its Regulations in the Philippines, Seminar on Prospects and Regulatory Framework of Biotechnology with Focus on Genetically Modified Crops, Tokyo, Japan.

Sta. Cruz, F.C., Azzam, O., Hull, R. (2004 Ag 30-S 2). In Search for Natural and Transgenic Resistance to Rice tungro bacilliform virus in Rice, 6th Australasian Plant Virology Workshop, Queensland, Australia.

Hibino, H., Jonson, G.B., Sta. Cruz, F.C. (1987 O). Association of mycoplasma-like organisms with rice orange leaf disease in the Philippines, International Congress of Plant Protection, Manila, Philippines.

Publications

2009 Sta. Cruz, F.C., Tañada, J.M., Elvira, P.R.V., Dolores, L.M., Magdalita, P.M., Hautea, D. M., Hautea, R.A. Detection of mixed virus infection with Papaya ringspot virus (PRSV) in papaya (*Carica papaya* L.) grown in Luzon, Philippines . Philippine Journal of Crop Science, 2009, 34(1):62-75.

2008 Sta. Cruz, F.C., Hull, R., Azzam, O. Tungro transgenic resistance. In: The Rice Tungro Virus Disease, A Paradigm in Disease Management. E.R. Tiongco, E.R. Angeles and L.S. Sebastian. (eds.). Science City of Muñoz, Nueva Ecija, Philippines: Philippine Rice Research Institute and Honda Research Institute Japan Co. Ltd., 2008:163-196.

Sta. Cruz, F.C. Tomato leaf curl: A destructive and widespread virus disease of tomato in the Philippines. UPLB, Kasakalikahan, Northern Foods Corporation and Food and Agriculture Organization (Technoguide, English and Ilocano version), 2008.

2006 Zenna, N.S., Sta. Cruz, F.C., Javier, E.L., DUKA, I.A., Azzam, O. Genetic analysis of tolerance to Rice tungro bacilliform virus (RTBV) by agroinoculation. Journal of Phytopathology, 2006, 154(4):197-203.

2005 Ebuenga, M.D., Magsino, G., Sta Cruz, F.C. Squash Production and Management Technoguide. NCPC, UPLB Technoguide, 2005..

Bariuan, F.V., Bayot, R.G., Navasero, M., Sta. Cruz, F.C. Tomato Production and Management Technoguide. NCPC, UPLB (Technoguide, English version and Tagalog version) , 2005.

Ebuenga, M. D., Magsino, G., Sta Cruz, F. C., Quimio, G. and Padilla, C. Ampalaya

- Production and Management Technoguide. NCPCC, UPLB Technoguide, 2005.
- 2003 Sta. Cruz, F.C., Hull, R. and Azzam, O. Changes in level of virus accumulation and incidence of infection are critical in the characterization of Rice tungro bacilliform virus (RTBV) resistance in rice. *Arch Virol.*, 2003, 148:1465-1483.
- 2000 Azzam, O., Arboleda, M., Umadhay, K., De Los Reyes, J., Sta. Cruz, F., Mackenzie, A., McNally, K. Genetic composition and complexity of virus populations at tungro-endemic and outbreak rice sites. *Arch. Virol.* , 2000, 145:2643-2657.
- 1999 Sta. Cruz, F.C., Boulton, M.I., Hull, R., Azzam, O. Agroinoculation allows the screening of rice for resistance to tungro bacilliform virus. *Journal of Phytopathology*, 1999, 147:653-659.
- Azzam, O., Kloti, A., Sta. Cruz, F., Futterer, R, Coloquio, J., Potrykus, E. L., I. and R. Hull, R. Genetic engineering of rice for tungro resistance. In: *Rice Tungro Disease Management*, T.C.B. Chancellor, O. Azzam and K.L Heong (eds.). International Rice Research Institute. Laguna, Philippines, 1999:39-44.
- Arboleda, M., Sta. Cruz, F.C., Azaam, O. Preliminary analysis of genetic variation of Rice tungro bacilliform virus in two provinces of the Philippines. In: *Rice Tungro Disease Management*, T.C.B. Chancellor, O. Azzam and K.L Heong (eds.). International Rice Research Institute, Laguna, Philippines, 1999:11-16.
- 1994 Sta. Cruz, F.C., Tiongco, E.R., Koganezawa, H., Cabunagan, R.C. Immunosorbent electron microscopy for detection of tungro viruses in crude sap of infected rice. *Philippine Phytopathology (abstr.)*, 1994, 30:140.
- Cabauatan, P.Q., Cabunagan, R.C., Sta. Cruz, F.C., Koganezawa, H. Occurrence of rice dwarf disease in the Philippines). *Philippine Phytopathol (abstr.)*, 1994, 30(2):54-58;137.
- Yamabao, M.L., Sta. Cruz, F.C., Z., Flores, Z., Koganezawa, H. Association of P12 of RTBV to virions. *Philipp. Phytopyathol (abstr.)*, 1994, 30:141.
- 1993 Sta. Cruz, F.C., Koganezawa, H., Hibino, H. Comparative cytology of tungro viruses in selected rice cultivars. *Journal of Phytopathology*, 1993, 138:274-282.
- Naredo, M., Vaughn, D.A., Sta. Cruz, F.C. Comparative spikelet morphology of *Oryza schlechteri*. *Journal of Plant Research*, 1993, 106:109-112.
- Duan, Y.P., Cabauatan, P.Q., Sta. Cruz, F.C., Tiongco, E.R., Hibino, H. Enzyme-linked immunosorbent assay of rice tarsonemid mite virus in mites and rice tissues. *Journal of Plant Prot. Tropics* , 1993, 10(1):1-9.
- Ma. Elizabeth B. Naredo, Duncan A. Vaughan, Filomena Sta Cruz Comparative spikelet morphology of *Oryza schlechteri* Pilger and related species of *Leersia* and *Oryza* (Poaceae). *Journal of Plant Research*, 1993, 106(2):109-112.
- 1992 Sta. Cruz, F.C. and Koganezawa, H. Detection of tungro viruses in host tissues of tungro infected rice by fluorescent antibody staining. *Philipp. Phytopyathol. (abstr.)*, 1992, 28.
- 1990 Sta. Cruz, F.C., Hibino, H. Occurrence and localization of rice tungro bacilliform and spherical viruses in host cells of tungro-infected rice (abstract). *Philippine Phytopathology*, 1990, 26:67.
- 1987 Hibino, H., Jonson, G. B. and Sta. Cruz, F. C. Association of mycoplasma-like organism with rice orange leaf disease in the Philippines. *Plant Disease* , 1987, 71:792-794.

Name **Vivian P. Tolentino**

Organizational Affiliations

Associate Professor, Dept. of Biology Ateneo de Manila University, Loyola Heights, Quezon City

Member, Natural Products Society of the Phil (NPSP),

Board of Director (BOD), Philippine Society for Developmental Biology (PSDB)-,

Education

Ph. D. Biology, University of the Philippines, Diliman, Quezon City 1994

Fields of Specialization

Biology

Association Membership

Board of Director (BOD), Philippine Society for Developmental Biology (PSDB)

Board of Director (BOD), Phil. Soc. of Biochem. and Mol. Bio. (PSBMB)

Vice President, Phil. Soc. of Biochem. And Mol. Bio (PSBMB)

(PRO/Board of Director), Microscopy Society of the Phil.

Member, Natural Products Society of the Phil (NPSP)

Member, International Society of Plant Molecular Biology (ISPMB)

Member, Sponsored membership by Biotechnology Action Center (BAC) of UNESCO

Life Member, Phi Sigma International Honor Society (Alpha Chi Chapter)

Member, American Association for the Advancement of Science (AAAS)

Member, Rice Genetics Cooperative

-, National Research Council of the Philippines (NRCP)

-, Crop Science Societies of the Philippines

-, Philippine Association of Plant Tissue Culture of the Philippines (PAPTC)

-, Conservation Farming Movement (CFM)

-, Phil. Society of Microbiologists (PSM)

-, Philippine Association for the Advancement of Science (PhilAAS)

Member, Catholic Education Association of the Philippines (CEAP)

-, Ateneo Multipurpose Cooperative (AMC), ADMU, Q.C

-, Arts and Sciences Credit Cooperative, ADMU

-, Women Association of Scientists of the Philippines

Honors / Awards

Travel Grant Award on Oral Presentation, Loyola Schools 2009 D 3-5

Loyola Schools Special Conference Grant for the presentation of research, Asia Pacific Microscopy Congress (APMC9) 2008 N 2-7

Loyola Schools Publications Award, Genetic Diversity of *Phil. Allium sativum* using RAPD analysis, Loyola Schools Review SOSE 2008 Mr

Best Poster for Structure Prediction of Yeast Invertase by Sequence Alignment and Homology Modeling, 8th Mycological Society of the Philippines 2006 Ap 21

Research Award, Loyola Schools Faculty 2006 F 24

Best Poster "Linking Diverse Sciences Through Microscopy", 5th ASEAN Microscopy Conference 2005 D 24-25

University Research Council Research Award, Ateneo de Manila University 2005 F 24

Research Award "The Effect of Light Intensity on the Distribution of Crystal.., Loyola Schools Faculty 2004 F 20

Research Award, Loyola Schools Faculty 2004 F

Research Award, Loyola Schools Faculty 2003 F 24

Publications Award 2002 for the article, Loyola Schools 2003 F 24

Publications Award, Loyola Schools 2002

Trainings

9th Asia-Pacific Microscopy Conference (APMC9), Jeju Island, Korea 2008 N 2-7

5th ASEAN Microscopy Conference on Linking Diverse Sciences through Microscopy, Holiday Inn Galleria. One Asian Development Bank Ave., Ortigas Center, Pasig City, Philippines 2007 N 24-25

Centennial Celebration of the Botanical Society of America, Chico State University, Chico, California, U.S.A. 2006 JI 29-Ag 2-

10th NPSP Annual Convention, Escaler Hall., Ateneo de Manila University, Loyola Heights, Quezon City 2005

Philippine Society of Biochemistry and Molecular Biology, Dumaquete City 2004 D 3-4

8th Annual Convention of the Natural Products Society of the Philippines, Veniz Hotel, Baguio City, Philippines 2003 D 3-5-

Researches

Completed

Characterization of oil cells in *Jatropha curcas*

Identification of Adulterants in *Centella asiatica*

Structural responses of *Cassia alata* L. to different colors of light

On-going

Developmental Morpho-Anatomy of oil cells in *Moringa oleifera* Lam

Structural Features of the Leaves and oil cells of *Pongamia pinnata* (L) Merr.

Anatomical Evaluation of the Leaves and oil cells of *Calophyllum inophyllum* L.

Papers Presented

Tolentino, V.P (2011 JL13-14). Establishing the Leaf Anatomy of *Tamarindus indica* Linn.

(Tamarind) and its Implication to Harsh Environments, 33rd NAST Annual Scientific Meeting.

Tolentino VS. et. al (2009 D 3-5). Understanding the Developmental Anatomy and Distribution of oil cells through microscopy, Inna Kuta Beach Hotel, Bali, Indonesia.

Librea, M., Tolentino VS, Trinidad, L. and Panes, V. (2008 N 2-7). Anatomical Characterization of the oil cells and oil cavities in the fruits and seeds of *Jatropha curcas* L., 9th Asia-Pacific Microscopy Conference (APMC9) Jeju Island, Korea.

Tolentino, V.S., Espineda, E., Marcelo, W., Panes, V., De Guzman, L.M. (2008 N 2-7). Histochemical and Anatomical Characterization of Oil cells in Seeds of *Pongamia pinnata* (L.) Merr., 9th Asia-Pacific Congress (APMC9), Jeju Island, Korea.

Espineda, E.M., Marcelo, W., Tolentino, V.S., Panes, V.A. (2008 F 22). Structural Features of the Leaves of *Pongamia pinnata* (L) Merr., Microscopy Society of the Philippines (MICROSPHIL) Annual Scientific Meeting, MAPUA, Manila, Philippines.

Tolentino VS, Zamora PM, Ordillas MU Jr, and Panes VA. (2007 N 24-25). Light and Scanning Electron Microscopy (SEM) Studies on the Late Embryogeny of *Pittosporum resiniferum* Hemsl, 5th ASEAN Microscopy Conference on Linking Diverse Sciences through Microscopy, Holiday Inn Galleria. One Asian Development Bank Ave. Ortigas Center, Pasig City, Philippines.

Tolentino, V.S., Zamora, P.M., Ordillas, M.U. Jr., Panes, V.A. (2007 N 24-25). Light and Scanning Electron Microscopy (SEM) Studies on the Late Embryogeny of *Pittosporum resiniferum* Hemsl, 5th ASEAN Microscopy Conference, Linking Diverse Sciences through Microscopy, Holiday Inn Galleria One, Asian Development Bank Ave., Ortigas Center, Pasig City, Philippines.

Tolentino, V.S., Ayes, M.E., Ang, J., Panes, V.A., Monotilla, W. (2007 D 06). Morpho-Anatomical characterization of *Centella asiatica* L. and its similar species used in herbal teas and drugs, Annual Convention of the Natural Products Society of the Phil (NPSP), UPLB, Laguna.

Panes, V.A., Marayag, P.J., Lao, L.E., Dalman, R., Tolentino, V.S., Villareal, M., Monotilla, W. (2006 JI 29-Ag 2). Isolation of Total RNA from the Medicinal Fungi *Ganoderma lucidum* Thom and *Penicillium chrysogenum* Curt Using The Modified Guanidine Method: A Comparative Approach, Centennial Celebration of the Botanical Society of America, Chico State University, Chico, California, U.S.A..

Panes, V.A., Agustin, A.T., Estil, S.T., Castillo, J.S., Mateo, C.F., Quito, A., Gaston, J.R., Tolentino, V.S. (2005). Nucleic Acids Research for Selected Philippine Medicinal Plants: A Functional Genomics Approach, 10th NPSP Annual Convention, Escaler Hall., Ateneo de Manila University, Loyola Heights, Quezon City.

Panes, V.A., Tolentino, V.S., Chan, M. (2004 D 3-4). Genetic Diversity of Philippine Alliaceae for Selection Breeding, Philippine Society of Biochemistry and Molecular Biology, Dumaquete City.

Panes, V.A., Lasala, R.A., Tolentino, V.S., Chan, M. (2004 D 1). RAPD analysis of the Genetic Diversity of 16 *Allium sativum* L. populations of Philippines, NISMED, University of the Philippines, Diliman, Q.C.

Publications

- 2011 Tolentino, V.P. Establishing the Leaf Anatomy of *Tamarindus indica* Linn. (Tamarind) and its Implication to Harsh Environments. Transactions of the National Academy of Science and Technology. Abstracts of Papers, 2011 JL 13-14, 33(1).

- 2009 Tolentino, V.P. The Fruit Anatomy of *Moringa Oleifera* Lam: A Potential Plant for Healthy Active Ageing. Transactions of the National Academy of Science and Technology. Abstracts of Papers, 2009, 31(1).
- 2008 Panes, V.A., Yap, K.J., Yu I.L., Tolentino, V.S. Interspecific Genetic Variation And Phylogenetic Relationships of Six Members of the Genus *Allium* L. (Alliaceae) in the Philippines Inferred from RAPD-PCR and Morphometrics. Loyola Schools Review, 2008, 7:87-113.
- 2007 Panes, V.A., Lasala, R.A, Tolentino, V.S., Chan, M.A. Genetic Diversity of Philippine *Allium sativum* L.(Alliaceae) Using Random Amplified Polymorphic DNA (RAPD) Analysis. Loyola Schools Review, 2007, 6:43-63.
- 2006 Tolentino, V.S. Evaluation of leaf epidermal characteristics of some *Plumeria* species. Transactions of the National Academy of Science and Technology, Philippines, 28th NAST Annual Scientific Meeting, 2006 JI 12-13, 10(2):65.
- 2004 Panes, V.A., Lasala, R.S., Chan, M.A., Tolentino V.S Genetic Diversity of Sixteen Populations of Philippine *Allium sativum* L. (Garlic). Proceedings of the 6th International Flora Malesiana Covention, TREES HOSTEL, UPLB, Laguna, 2004 S:19- 24.
- Tolentino, V.S., Lasala R.S., Lei, J.D., Panes, V.A. Effects of Light Intensity on the Distribution Patterns of Crystals in the Leaves of *Azadirachta indica* L.. Loyola Schools Review, 2004, 3.
- 2003 Panes, V.A., Chan, M.A., Tolentino, V.S., Lasala, R.A. Investigation of the DNA of some Philippine Aromatic and Herbal Plants: Breaking New Grounds in Philippine Medicinal Plant Research. Proceedings of the 8th Annual Convention of the Natural Products Society of the Philippines, Veniz Hotel, Baguio City, Philippines, 2003 D 3-5.
- 2003 Panes, V.A., Chan, M.A., Tolentino, V.S., Lasala, R.A. Genomic DNA Studies Of Some Philippine Aromatic and Herbal Plants: Isolation Protocol Optimization, DNA Profiling and Characterization . Proceedings of the 8th Annual Convention of the Natural Products Society of the Philippines, Veniz Hotel, Baguio City, The Philippines, 2003 D.
- 2002 Tolentino, V.S., Zamora P.M. Late Embryogeny of *Pittosporum resiniferum* Hemsl. (Petroleum Nut Plant) . The Philippine Journal of Science, 2002 Je, 131(1).
- Tolentino, V.S., Zamora, P.M. Morpho-Anatomy of the fruit of *Pittosporum resiniferum* Hemsl. (Petroleum Nut) . The Philippine Scientists, University of San Carlos, Cebu City, 2002, 39:48-55.
- 2001 Tolentino, V.S., Zamora, P.M. The Microsporangium and the Development of the Male Gametophyte of *Pittosporum resiniferum* Hemsl. (Petroleum Nut Plant). The Philippine Journal of Science, 2001 Je, 130(1).
- 1998 Tolentino, V.P., Zamora, P.M. Development of the female gametophyte of *Pittosporum resiniferum* Hemsl. (Pittosporaceae). Transactions of the National Academy of Science and Technology, 1998, 20:579.

Name **Catherine P. Vistro-Yu**

Organizational Affiliations

Professor, Mathematics Department, Ateneo de Manila University, 3/F Science Education Complex Bldg. A, Katipunan Ave., Loyola Heights, Quezon City

Consultant, Mathematics Coordinator for Basic Education Sector Reform Agenda, KRT-3

Education

Doctor of Education, University of Georgia, 1991

Fields of Specialization

Governmental, Educational and International Policies

Mathematics Education

Employment

Consultant, CHED Technical Panel for Teacher Education, 2003-2004-

Association Membership

Member, National Research Council of the Philippines (NRCP)

Honors / Awards

NRCP Achievement Award (Division 1), NRCP 2008

Trainings

Seminar-Workshop, Science and Math Fair and Exhibits 2008, UP Rural High School, Los Baños, Laguna 2008 O 21

Regional Seminar on Southeast Asia Ethnomathematics 2008, Universiti Putra Malaysia Institute for Math. Research 2008 D 3

Basic Education Sector Reform Agenda Seminar Workshop, UPNISMED 2006 Je 22

Mathematics Frameworks for Basic and Teacher Education Levels, De La salle University, Manila 2006 Ap 17

Asia Pacific Conference on Higher Education Research, Manila Hotel, Manila 2004 Ag 20

Researches

Completed

Teachers' belief, instructional practices and culture: Understanding effective mathematics in the Philippines

Using innovation techniques to generate new problems

Geometry: Shapes, patterns and designs

Curriculum-Mathematics

How teachers develop their pedagogical knowledge in Mathematics

Effective Practices in Science and Mathematics Education: A Benchmarking Project

On-going

The benefits and challenges of International exchanges in Mathematics and Science Education

The academic progress of students in basic Mathematics courses

A study of expert math teachers' implementation of curricula 2008-2009

An Investigation of Pedagogical and Cognitive Flow in Mathematics

Papers Presented

Vistro-Yu, C.P. (2009 O 23-24). Understanding Pedagogical Knowledge, MATHED 2009:An International Conference on Mathematics Education, Palawan State University, Puerto Princesa, Palawan.

Vistro-Yu, C.P. (2009 N 9-10). Ethnomathematics for Capacity Building in Mathematics Education, APEC-EDNET Conference on Human Resource Capacity Building in Science and Mathematics, Makati, Philippines.

Vistro-Yu, C.P. (2009 Je 11). An Investigation of Pedagogical and Cognitive Flow in Mathematics, Quarterly Meeting of Division 1, NRCP, Emilio Aguinaldo College.

Vistro-Yu, C.P. (2008 My 29). Innovate to Keep Problem Solving Alive, A Seminar-Workshop, Singapore Mathematics Teacher Conference, National Institute of Education.

Vistro-Yu, C.P. (2008 My 23). A Call to Help School Mathematics Teachers Meet New Standards in Mathematics Teacher Education, MSP Convention, University of the Philippines NISMED.

Vistro-Yu, C.P. (2007 N 27). Pedagogical and Cognitive Flow in Mathematics, A Colloquium given to Graduate Students and Faculty of the Mathematics and Science Education Department of the University of Georgia, Athens, Georgia, USA.

Vistro-Yu, C.P. (2007 N 20). Framework for Mathematics Teacher Education, University Hotel, Diliman, Quezon City.

Vistro-Yu, C.P. (2007 N 12). Framework for Mathematics Teacher Education, Conference on Mathematics Teacher Education: Orientation to TEDS-M, University of San Carlos, Cebu.

Vistro-Yu, C.P. (2006 O 23-25). Cognitive Flow in Mathematics, Special Conference in Celebration of the 10th Founding Anniversary of MATHED, Ateneo de Manila University .

Vistro-Yu, C.P. (2006 N 9). Critical Success Factors for Performance in Mathematics, Seminar on Educational Leadership and Management Development Series, Best practices in Basic Education in Asia-Pacific, by the Coordinating Council of Private Educational Associations, Century Park Hotel..

Vistro-Yu, C.P. (2006 Je 23). Faculty Involvement in Student Formation Through Student Centered Learning: The Mathematics Department, Ateneo Loyola Schools Faculty Day.

Vistro-Yu, C.P. (2006 Je 22). TIMSS 2003 Framework and the Philippine Mathematics Framework for Basic and Teacher Education, Basic Education Sector Reform Agenda Seminar Workshop, UPNISMED .

Vistro-Yu, C.P. (2006 Ja). Manipulatives in Elementary Mathematics, Variety Math

Seminar of the Mathematics Department.

Vistro-Yu, C.P. (2006 F 18). A Lecture on Polar Graphs, Public High School Students for Camp Mathematics.

Vistro-Yu, C.P. (2006 D 4-6). Framework for Mathematics Teacher Education, 9th SUCTEA National Convention, Education Curriculum: Issues, Concerns, and Challenges, The Legend Palawan, Puerto Princesa, Palawan.

Vistro-Yu, C.P. (2006 Ap 17). The Philippine Mathematics Framework for Basic and Teacher Education by the MATHED, Mathematics Frameworks for Basic and Teacher Education levels at the DOST-SEI funded seminar, Learning Improvement for Teachers and Students (LIFTS) for MIMAROP A Regions, De la Salle University.

Vistro-Yu, C.P. (2004 Ag 20). Mathematics and Science Literacy of Filipino Students, Asia Pacific Conference on Higher Education Research, Manila Hotel, Manila.

Vistro-Yu, C.P. (). Enhancing Mathematics Teachers' Professional Development Through Shared Cultures, A Regular Lecture at the 4th East Asian Regional Conference.

Publications

2009 Vistro-Yu, C.P., Villena-Diaz, R. Teachers' beliefs, instructional practices and culture: Understanding effective mathematics in the Philippines. *Effective Mathematics Teaching from Cross National Studies*, Netherlands: Sense Publishers, 2009:183-203.

Vistro-Yu, C.P. Using innovation techniques to generate new problems. *Mathematical Problem Solving Yearbook Singapore*: World Scientific, 2009:185-207.

Vistro-Yu, C.P. Every bit counts: Sharing prosperity through leadership in Mathematics Education. *Agenda for Hope Ideas on Building a Nation, Sharing Prosperity*, Quezon City: Ateneo de Manila University Loyola Schools, 2009:173-188.

2008 Howard, P., Latonio, R.C., Vistro-Yu, C.P. Enhancing Mathematics curriculum development through action-based teacher professional development: an international collaboration in the Philippines. *Loyola Schools Review*, 2008, 7.

2007 Vistro- Yu, C.P. Turn around mathematics textbook problems and exercises to enhance classroom assessment. <http://www.abiva.com.ph/Downloads/Turn Around.pdf>, 2007 F 23.

2007 Vistro-Yu, C.P., Irwin, K.C. The benefits and challenges for social justice in international exchanges in mathematics and science education . *Internationalisation and Globalisation in Mathematics and Science Education*, Netherlands .C. Keitel, C. Vistro- Yu, R. Vithal (Eds.), B. Atweh, A. Calabrese Barton, M. Borba, N. Gough, 2007.

San Jose, R., Ulep, S., & Vistro-Yu, C. Trends in International Mathematics and Science Study Philippine Report:. Volume II Mathematics, Population I. Quezon City: DOST-SEI, DepEd, UP NISMED , 2007.

Vistro- Yu, C.P. Enhancing mathematics teachers' professional development through shared cultures. *Proceedings of the 4th East Asia Regional Conference on Mathematics Education EARCOME 4*, University Sains Malaysia, Penang, Malaysia (C. S. Lim, S. Fatima, G. Munirah, S.Hajar, M. Y. Hashimah, W. L. Gan, & T. Y. Hwa (Eds), 2007:33-38.

2006 Vistro-Yu, C.P. Mathematics and science literacy of Filipinos. *Intersection (MATHED, Quezon City)*, 2006, 2.

Vistro-Yu, C.P. Mathematics and science literacy of Filipinos. *Intersection*, Quezon city;

MATHED, 2006, 7(2).

2004

Vistro-Yu, C.P. DG-18: Current Problems and Challenges in Primary Mathematics Education. Proceedings of the 10th International Congress on Mathematical Education (CME 10), Copenhagen, 2004 JI:506-508.

Vistro-Yu, C.P. Understanding linear measurement: A Comparison of Filipino and New Zealand children. Mathematics Education Research Journal, 2004, 16(2):3-24.

Vistro-Yu, C.P. An exploratory study of Filipino children's concepts of division and their strategies in solving division problems. The Asia Pacific Education Researcher, 2004, 13(1):1-27.

Vistro-Yu, C.P. The effective learning environment: The delivery modes of model schools. Effective Practices in Science and Mathematics Education: A Benchmarking Project, DOST-SEI, 2004:41-58.

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Lantin, Reynaldo M.

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