



Making science
work for you

Inside

DOST disaster preparedness programs to help IT-BPM industry - Montejo	p2
Cebu board member lauds DOST support to local inventors.....	p3
New PSHS system exec takes oath with new campus directors.....	p4
InFocus.....	p4

MISSION POSSIBLE:

DOST's training will get you jobs -Sec. Motejo

By MARIA LUISA S. LUMIOAN
S&T Media Service, *DOST-STII*

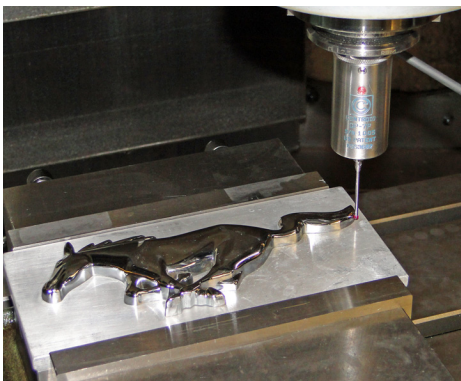
Brighter employment prospects await at least 800 individuals who have received free training for CNC Tool Programming and Operations from the Department of Science and Technology-Metals Industry Research and Development Center (DOST-MIRDC).

MIRDC's training program is part of DOST's push for industry competitiveness in the metals and engineering sector and in accordance with Secretary Mario G. Montejo's directive to address the lack of workers with this skill in the manufacturing industry.

Dr. Danilo N. Pilar, Chief of Technology Diffusion Division of MIRDC revealed that the Secretary's directive came after Department of Labor and Employment identified CNC machining as a "mission critical skill" in 2012. This means that such is an absolute necessary skill in the industry; takes a long time to produce; and cannot be easily replaced.

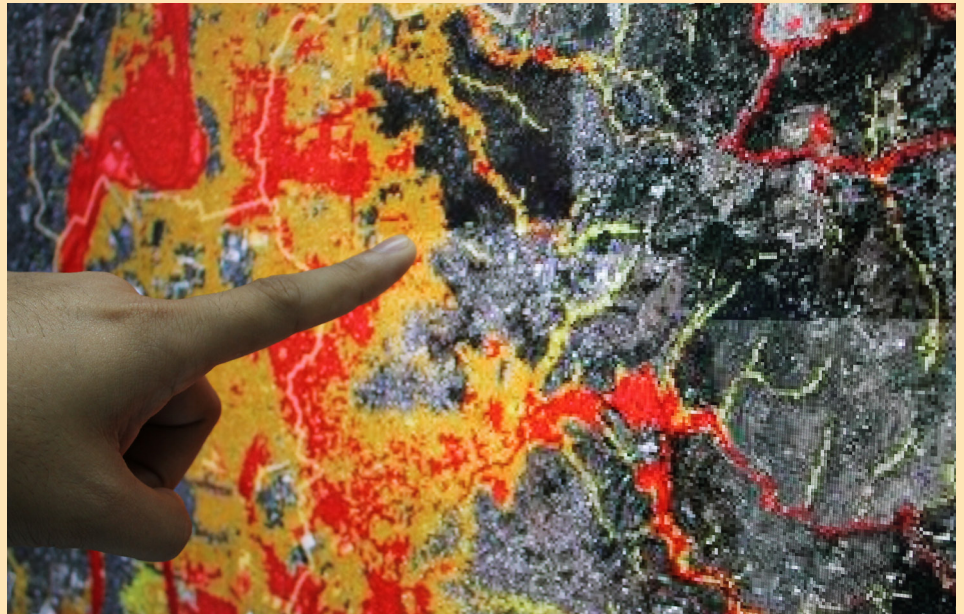
Computer numerical control (CNC) is a process in manufacturing that involves the use of computers to control machine tools. CNC machinists are in-charge of programming,

continued on page 3



Recognizing the importance of CNC capability in the local metals manufacturing industry, DOST spearheads the training program which is identified as a "mission critical skill."

Science chief pitches use of scientific data for Yolanda rehab



YORINFOCENTER provides high resolution hazard maps and other related data that can be used in the rehabilitation efforts of the government and other foreign agencies. (S&T Media Service)

By ESPIE ANGELICA A. DE LEON
S&T Media Service, *DOST-STII*

Science Secretary Mario Montejo is directing all agencies involved in Yolanda rehabilitation to secure all scientific information they need at the Yolanda Rehabilitation Scientific Information Center (YORINFOCENTER).

Located at the University of the Philippines National Engineering Center in Diliman, Quezon City, the said Center makes it easier for other government agencies, including local government units, and humanitarian organizations to get scientific data that could help them in rehabilitating Eastern Visayas and its environs affected by the typhoon.

Since its launch on May 17 this year, YORINFOCENTER has facilitated the release to stakeholders of scientific data, such as like LiDAR topographic maps and multi-hazard maps from both the Department of Environment and Natural Resources - Mines

and Geosciences Bureau (DENR-MGB) and the DOST, and the latest satellite images of the Yolanda-devastated areas.

Montejo said the creation of YORINFOCENTER is part of the DOST's commitment to make sure that the people are benefitted by its technological and research outputs. The Center was established in partnership with the DENR.

"We continue to process many of the data to produce hazards maps for flood, landslide and storm surges. Just recently, we completed the new multi-hazard map for Tacloban and other areas."

"The DOST and the DENR have been using these information for the Yolanda effort but we have been getting numerous inquiries from many groups for these data that's why we have decided to come up with this center

continued on page 2

DOST disaster preparedness programs to help IT-BPM industry

By ALLAN MAURO V. MARFAL
S&T Media Service, DOST-STII



Department of Science and Technology (DOST) Secretary Mario G. Montejo, keynote speaker at the 2014 International IT-BPM Summit last October 13, 2014 at the Makati Shangri-la Hotel, believes that DOST's initiatives on enhancing disaster preparedness management can deliver positive impacts on the operations of information technology-business process management (IT-BPM) companies in the country. (S&T Media Service, DOST-STII)

The local information technology-business process management (IT-BPM) industry, a leading economic driver expecting \$18 billion in revenues by the end of 2014 yet hounded by climate issues, will benefit from disaster preparedness management to help boost its productivity, according to Department of Science and Technology (DOST) Secretary Mario G. Montejo

Speaking at the 2014 International IT-BPM Summit last October 13 at the Makati Shangri-La Hotel, Sec. Montejo assured DOST's full commitment to the industry and pointed out that the availability of up-to-date and real-time weather information and resources enable industry investors to map out better strategies and manage their operations more effectively.

The Philippines is prone to many natural calamities and most typhoon-prone areas are

in the provinces where some IT-BPM players are located.

In response to this challenge, Montejo highlighted DOST's initiatives on developing and deploying weather monitoring sensors to prepare local communities, including those in the countryside, before natural calamities hit them.

According to the DOST secretary, Doppler radars can provide accurate and timely information on upcoming weather disturbances while hazard maps can describe how the floods look like.

He also cited DOST's Project NOAH website where various valuable information on upcoming weather disturbances may be found.

The IT-BPM industry continues to spur economic growth, not only in Metro Manila, but also in the provinces. Montejo reported that the industry had 525,000 full-time employees in different career segments back in June 2010. As of August 2014, the number has since increased to 1 million. Montejo added that \$18 billion in revenues by the end of the year will make the \$25 billion target by 2016 more realistic.

However, different areas in the country are beset by issues such as security, internet connectivity, poverty, and climate, which discourage industry investors to put their IT-BPM operations there.

The International IT-BPM Summit served as an avenue to address new trends and advancements in outsourcing models, management solutions and technology that will shape the future of IT-BPM. It was organized by the Information Business Process Association of the Philippines in partnership with DOST's Information and Communications Technology Office.

Science chief...from page 1

as a one-stop information shop," the DOST chief explained.

Geodetic Engineer Sarah Jane Samalbuero of NOAH DREAM Project, who was tasked to take charge of YORINFOCENTER's operation, said they have been able to help a lot of government and private entities in securing hazards maps.

She said that while they have received numerous requests from government agencies and the private sector, only a few have come from local government units.

YORINFOCENTER urges local government units to get copies of their maps so that

they may be able to identify the most vulnerable and the safest points in their areas.

These maps, she said, could help in drawing effective strategies for disaster preparedness and resiliency in Eastern Visayas.

YORINFOCENTER is manned by experts from DOST-Project NOAH and DREAM, PAGASA, Phivolcs, and DENR-MGB. It can also be consulted for information, data and any other technical support relative to the scientific datasets it is providing for the on-going rehab of areas devastated by typhoon Yolanda.

About us

The DOST Digest is published by the
Science and Technology Information Institute-
Department of Science and Technology
For comments, suggestions or queries, contact: (02) 837-
2071 loc. 2148/839-2193 local 107 or email:
dost.digest@gmail.com

Framelia V. Anonas
Editor-In-Chief

Joy M. Lazcano
Managing Editor

James B. Intia
Layout

Maria Luisa S. Lumioan
Proofreader

Science and Technology Information Institute-
Department of Science and Technology Bicutan, Taguig City,
Metro Mla. 1631
Philippines

www.stii.dost.gov.ph

Like us on Facebook/Science and
Technology Information Institute (DOST)



Cebu board member lauds DOST support to local inventors

By JOY M. LAZCANO
S&T Media Service, DOST-STII

Mandaue City-Cebu Provincial Board Member Griselda Sanchez lauds the Department of Science and Technology (DOST) for its efforts in supporting the growth of local inventors.

"You know DOST Region 7 has greatly contributed to what I am today, I'm a living proof of DOST's support to local scientists and innovators..." the lady board member revealed during her message at the start of the 2014 Visayas Cluster Regional Cluster Fair in J Center Square, Mandaue City, Cebu.

"I take pride in saying that I have been a beneficiary for accelerated, transfer, and commercialization of innovative technologies," she explained.

Her message is in connection with the Science and Technology (S&T) fair in the Visayas region where DOST showcased the latest developments in the local S&T.

Prior to her current political seat at the Cebu province, Sanchez was a researcher and headed the Lacto Bacillus Pafi Techno Resources Corporation.

She joined DOST's invention contest in 2010 for her wound dressing Paficare and won in the regional level. On the following year, she joined in another DOST program for accelerated technology development called Filipinnovation for her agricultural product

called Antica, a pest and fungal control product. It won the top prize.

Sanchez added that DOST opened many opportunities for her innovations after she won said prize. Particularly, she earned a research grant that helped improve and widen the use of her agricultural products.

Her invention also won in the Philippine Chamber of Commerce and Industry Ambassador Alfredo Yao Intellectual Property Awards for the same invention.

Agencies such as the Bureau of Agricultural Research took notice of her products and further helped her develop her products.

DOST through its Technology Application and Promotions Institute supports local inventors through the Republic Act No. 7459, also known as the Inventors and Invention Incentives Act which "the Government shall provide a program to set up a climate conducive to invention and innovation, give encouragement and support to inventors."

Under the RA7459, inventors could avail of the following support: intellectual property rights assistance program to assist inventors in filing patents and similar IP rights; prototype development, testing assistance, pilot plant assistance, promotion and publication, National Invention Contest and Exhibits, tax/duty exemption assistance,

invention guarantee fund, travel assistance, training, and Inventschool to encourage the spirit of inventiveness and creativity among secondary students.



Cebu Provincial Board Member Griselda Sanchez during the Visayas S&T Cluster Fair lauds DOST for its efforts in supporting the growth of local innovations through various support programs to inventors and innovators. (Photo by Gerardo Palad, S&T Media Service, DOST-STII)

DOST's training ... from page 1

setting up and operating CNC machines to cut, shape and form metal castings. Such machines allow the manufacture of products that are exactly the same copies. This is very important in aerospace, medical equipment, and other industries that require precision in manufacturing.

MIRDC's program to provide free CNC training to qualified unemployed individuals started in 2012 and will end December this year.

"The trainees are given Php 300 per day as stipend for the entire duration of training program", explained Dr. Pilar.

The 62-day training program includes a twenty-day industry immersion with partner companies of MIRDC. So far, 569 have graduated from the program and another 237 are set to graduate from the ongoing batches, revealed Dr. Pilar. "This means we have exceeded the target of 800 trainee graduates by the end of the year," he added.

He also said the demand for CNC machinist is very high. In the first batch alone, MIRDC has monitored that more than half of the graduate trainees were eventually employed in the companies where they had their industry immersion. Most of their industry partner companies promise to hire the graduates from the training.

According to Labor Market Trends Publication of the DOLE-Bureau of Local Employment, an entry level CNC machinist earns a salary of Php 15,000 to Php 20,000.

Dr. Pilar clarified that they also accept employed individuals from their partner companies in the training program however a minimal training fee will be charged from them. Most of their trainees are from the unemployed ranks.

The training graduates will also have to render three years of service in the country in exchange for the free training provided.

The training program is being implemented in partnership with Technical Education and Skills Development Authority (TESDA) in eight locations nationwide which include: MIRDC office in Bicutan Taguig, and TESDA training offices in Taguig, Baguio, Batangas, Iloilo, Negros Occidental, Cebu, and Davao.

Virgilio Lanzuela, immediate past national president of Metalworking Industry Association of the Philippines and owner of RollMaster Machinery and Industrial Services Corporation, commended DOST for its CNC training and other initiatives in the Metals Industry Sector. His company is one of the 24 industry partners of MIRDC in its training program.

"Napakahirap para sa isang maliit na kumpanya ang magtrain ng CNC operators. Dati makakapagtraining ka lang kapag bumili ka ng equipment kasi kasama yun sa package (It's difficult for a small company to get CNC operator trainings. Before, you can only avail of training if you buy an equipment as it is included already in the package," He said. "With this training provided by MIRDC, companies like us can also have an opportunity to upgrade the skills of our employees."

To qualify under the program, an applicant must be at least be high school graduate with machining course from TESDA or TESDA accredited training institutions; vocational/trade course graduate or completed two years of college preferably in engineering course.

Aside from CNC Machine Tool Programming and Operations, MIRDC also provides other trainings related to the metalwork industry. For more information, please log on to mirdc.dost.gov.ph or call (02) 8370764.

New PSHS system exec takes oath with new campus directors

Dr. Larry Cabatic, who served as director of Ilocos region campus for almost ten years, was appointed as the new executive director of Philippine Science High School System (PSHS), replacing Dr. Josette P. Biyo, current director of Science Education Institute (SEI). The PSHS system and SEI, both providing scholarships in the field of science and technology, are under the Department of Science and Technology (DOST).

Dr. Cabatic, a civil engineer by profession, together with other new PSHS officials, took their oath of office during the 50th Anniversary celebration of the institution recently at the Multi-Purpose Gymnasium of PSHS Main Campus in Quezon City. DOST Secretary Mario G. Montejo administered said ceremony.

Dr. Cabatic finished Bachelor of Science Degree in Civil Engineering at the University of Northern Philippines (UNP). In 1999, he obtained a Masters degree in Development Administration and a Doctorate degree in Philosophy major in Technological Education Management (2002), both in Don Mariano Marcos Memorial State University (DMMMSU).

He worked as a Labor Standards Enforcement Officer in the Department of Labor and Employment (DOLE) Region 1 from 1988 to 1993. From thereon, he became the Provincial Labor Officer of DOLE La Union



Provincial Office from 1993 to 1997, before he assumed the position as Chief Labor and Employment Officer of DOLE Region 1 from 2002 to 2004.

Then from 2004 until he was assigned as executive director of PSHS last September 1, 2014, Dr. Cabatic spent his time as the director of the PSHS Ilocos region campus.

Secretary Mario G. Montejo (leftmost) administers the oath taking ceremony of new officials of the Philippine Science High School System during the 50th Anniversary celebration of the institution last September 5, 2014 at the Multi-Purpose Gymnasium of PSHS Main Campus in Quezon City. From left in line: new PSHS System Executive Director Dr. Larry L. Cabatic, Deputy Executive Director Rod Allan De Lara, Engr. Lorvi B. Pagorogon (Central Mindanao campus), and campus directors Dr. Salvador B. Romo (Cagayan Valley campus), Dr. Warren D. Cordeta (Central Visayas campus), Dr. Chuchi P. Garganera (PSHS-SOCCSKSARGEN campus), Ruwina S. Gonzaga (Caraga campus), and Delia C. Legaspino (Southern Mindanao campus). (Photo from PSHS)

Some of his notable achievements were establishing linkages with institutions, such as UNP, DMMMSU, Ilocos Sur Polytechnic State College, Bureau of Fisheries and Aquatic Resources, Department of Environment and Natural Resources, Protected Areas, Wildlife Brueau, Coastal Systems Management, and Department of Agriculture for research and laboratory support services. He also supported several outreach projects and activities for the local community to address waste problems as well as Gender and Development for people empowerment through welding and masonry skills development.

Meanwhile, Dr. Rod Allan De Lara, who served as officer-in-charge of PSHS for six months, also took his oath as Deputy Executive Director of PSHS along with other new campus directors, namely Engr. Lorvi B. Pagorogon of the Central Mindanao Campus, Ruwina S. Gonzaga of the newly-established PSHS-Caraga in Butuan City, Delia C. Legaspino of Southern Mindanao campus, Dr. Salvador B. Romo of Cagayan Valley Campus, Dr. Chuchi P. Garganera of the newly-established PSHS-SOCCSKSARGEN Region Campus in Barangay Paraiso, Koronadal City, and Dr. Warren D. Cordeta of the PSHS Central Visayas Campus in Argao, Cebu. PSHS is a service institute under DOST that offers free scholarship for secondary course with special emphasis on subjects pertaining to the Sciences with the end view of preparing its students for a career in Science. It has 13 campuses all over the country and DOST is targeting to install three additional campuses by 2016. (S&T Media Service, DOST-STII)

Dr. Cabatic finished Bachelor of Science Degree in Civil Engineering at the University of Northern Philippines (UNP). In 1999, he obtained a Masters degree in Development Administration and a Doctorate degree in Philosophy major in Technological Education Management (2002), both in Don Mariano Marcos Memorial State University (DMMMSU). He worked as a Labor Standards Enforcement Officer in the Department of Labor and Employment (DOLE) Region 1 from 1988 to 1993. From thereon, he became the Provincial Labor Officer of DOLE La Union



DOST Assistant Secretary Raymund E. Liboro discusses Project NOAH, or the Nationwide Operational Assessment of Hazards, to engineering and IT students of Far Eastern University-East Asia College at a forum called "Itam Makakalikasan: A Generation Waking Up." In his talk, the co-Executive Director of Project NOAH instilled the fundamental value of building a culture of safety among the youth through the responsible use of social media tools. (S&T Media Service)