

# Ilocos S & T Trends



ISO 9001



MSA-061

THE OFFICIAL NEWSLETTER OF THE DEPARTMENT OF SCIENCE AND TECHNOLOGY- REGIONAL OFFICE NO. 1

ENTERED AS SECOND-CLASS MAIL MATTER AT THE SAN FERNANDO CITY, LA UNION POSTAL OFFICE

Volume 2 Issue No. 1

ISSN No. 0118-0924

January-March 2019



DOST 1 Patriot scholars, barangay officials, and Disaster Risk Reduction Management Officers (DRRMO) are at their peak of discussion during the Community- Based Disaster Risk Reduction and Management (CB-DRRM) Training in Batac City, Ilocos Norte on March 8-9, 2019.

## FILIPINO PATRIOT SCHOLARS TO AID IN DISASTER RISK RESPONSE AND MITIGATION

By: Florde Liza L. Alida, DOST 1

The Department of Science and Technology-Science Education Institute (DOST-SEI) has started to engage its Patriot Scholars in addressing issues in the community, particularly in disaster risk mitigation and response as it held a two-day comprehensive training on Community- Based Disaster Risk Reduction and Management (CBDRRM) Training in Batac City, Ilocos Norte on March 8-9, 2019.

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A total of 146 undergraduate scholars taking up science, math, and engineering courses and 9 graduate-scholars from Pangasinan, La Union, Ilocos Sur and Ilocos Norte assembled during the training. Representative from the Office of Civil Defense- Region 1, Department of Social Welfare and Development- Region 1, and the Municipal Disaster Risk Reduction and Management Office of Batac City joined the training together with officials from five selected barangays of Batac namely, Baay, Quiling, Barani, Ricarte, and Bil-loca.

This activity under the DOST-SEI's Filipino Patriot Scholars Project aimed to instill core values of professional excellence, social responsibility, and servant leadership among the scholars. It featured series of topics on DRRM such as the Sendai Framework for DRR; comprehensive CBDRRM as an approach to DRRM; understanding the Philippine Weather Systems, Climate Change, and Local Disaster Situation; Climate Change Impacts and Adaptation on agriculture, food, water security, and health; earthquake preparedness; camp management for the displaced people during disasters; fire safety; basic life support on first aid and emergency response; and water search and rescue, and more. (continued in page 3)

# DOST opens scholarship application for incoming junior studies

The Department of Science and Technology- Science Education Institute (DOST-SEI) through the DOST Region 1 calls on second year college or incoming third year college students, who are poor but talented and deserving to be scholars, to apply for the Junior Level Science Scholarship (JLSS) program.

The JLSS is among the DOST-SEI's scholarship programs for regular third year students that aims to increase the number of S&T workers who will help boost knowledge creation and economic productivity in the country.

Qualifiers to the program will enjoy various scholarship benefits such as tuition and other school fees, book allowance, and monthly living allowance for two to three years amounting to Php40,000.00 per Academic Year, Php10,000 per year, and Php7,000 per month, respectively given that the scholar maintains good academic standing.

The deadline of application is on April 26, 2019 and the qualifying examination will be held on June 2, 2019. Qualified applicants are natural-born Filipino citizen, poor, talented, and deserving student whose family's socio-economic status does not exceed the set values of certain indicators, a regular 2nd year college student in an identified priority S&T program for the 2nd semester of AY 2018-2019 with a general weighted average (GWA) of at least 83%, must be a resident of the municipality for the last four years as attested by the barangay chairman, has good moral character, and must pass the 2019 JLSS qualifying examination.

Interested applicants are encouraged to secure and file their application to the DOST Regional office located at the Don Mariano Marcos Memorial State University-Mid La Union Campus (DMMMSU-MLUC) or at the Provincial Science and Technology Centers (PSTC) in Ilocos Norte, Ilocos Sur, La Union, and Pangasinan, with addresses indicated at the back page of the newsletter. Application forms, requirements and other information can be downloaded from the DOST-SEI website, <http://www.sei.dost.gov.ph/images/downloads/2019JLSSAppBrochure.pdf>.



The Ilocos S&T Trends is published quarterly by the Department of Science and Technology Region I (DOST I) with editorial office at Don Mariano Marcos Memorial State University - Mid La Union Campus, Catbangen City of San Fernando, La Union

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# BE A DOST SCHOLAR for the Nation!!



**2019**

**Junior Level Science  
Scholarship (JLSS)**

## GENERAL CRITERIA:

- \* Natural-born Filipino Citizen
- \* Regular SECOND YEAR COLLEGE student in an identified S&T program covered by the scholarship for SY 2018-2019
- \* General Weighted Average (GWA) of at least 83% or its equivalent in his/her first year and first semester of the second year in college.
- \* Of good moral character and in good health
- \* Qualifier of the 2019 JLSS Examination

**Deadline of Application:  
APRIL 26, 2019**

**Date of Examination:  
JUNE 2, 2019**

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(Filipino Patriot Scholars..from page 1...) The Patriot Scholars and barangay officials have also undergone workshop on community profiling and baseline data, risk assessment and capacity assessment, and community-resilience building partnership program. The workshop enabled the scholars and barangay officials to exchange ideas about the current situation of the community in terms of DRR. Hence, the participants are expected to come up with program/ plan that will address a particular DRR related issues in the society.

Furthermore, Dr. Josette P. Biyo, Director of DOST- Science Education Institute said that not all Filipinos who are paying tax have a DOST scholar child who is enjoying the scholarship. Thus, she urges the patriot scholars to study well and work in the Philippines after finishing their degrees in order to help in the development of the country.

Hon. Albert D. Chua, Mayor of the City of Batac also highlighted the importance of having values among individuals in achieving inclusive development in the country. He thanked the DOST for conducting the activity while he noted that engaging the scholars to help develop and uplift people's lives is a significant practice.

## DOST READY TO CERTIFY BEIS IN REGION 1

In preparation for the upcoming Automated Election System (AES) for the 2019 National and Local Elections (NLE) in May, the Department of Science and Technology in Region 1 (DOST 1) pool of certifiers for Board of Election Inspectors (BEI) undergoes a hands-on training on Vote Counting Machine (VCM) operations through the Commission on Elections.

Michael John C Maquiling, Science Research Specialist II and Core Certifier of DOST 1 said that a total of 16 competent certifiers and five members for the Quick Response Team (QRT) from DOST 1 will be deployed in the four provinces of Region 1.

A total of eight certifiers will be deployed in Pangasinan, three in La Union, another three in Ilocos Sur, and two in Ilocos Norte. Meanwhile, the QRT members will serve as back up certifiers for the different provinces.

The DOST 1 certifiers will conduct both written and practical examinations on the operation of the VCM to all BEIs throughout the region. The certified BEIs will facilitate the voting and counting of votes in their respective polling places. They will be responsible in the supervision and control of the election in their assigned precincts.

A total of 9,998 BEI's will undergo certification. This is composed of 1,370 from Ilocos Norte, 1,787 from Ilocos Sur, 1,574 in La Union, and 5,267 in Pangasinan.

The DOST Certification Program for the BEIs for the 2019 National and Local AES is in response to Republic Act No. 8436 and amended by RA 9369 which states that at least one member of the BEIs shall be an information technology-capable person, who is trained or certified by the DOST to use the VCM.

# MSMES IN REGION 1 GET 30M FOR TECHNOLOGY UPGRADING

Sixty-three micro, small, and medium enterprises (MSMEs) were granted a total of about Php30 million assistance from the Department of Science and Technology- Small Enterprise Technology Upgrading Program (DOST-SETUP) last year.

The fund was used to acquire technologies under the program's priority business sectors in Pangasinan, La Union, Ilocos Sur, and Ilocos Norte having a total of 23, 15, 13, and 12 beneficiary-firms, respectively.

The beneficiaries from Pangasinan summed up a total of Php10,547,873.00 followed by Ilocos Norte with Php8,941,700.00, and La Union and Ilocos Sur having Php5,429,230.00 and Php4,083,292.00, respectively.

Aside from financial assistance for acquisition of technologies, the firms were also provided with technical assistance, design of product labeling and packaging, and consultancy services to ensure quality products.

SETUP is the DOST's flagship program in accelerating economic growth in the region. It aims to assist MSMEs to adopt technological innovations in order to achieve quality products, services, increased productivity, and competitiveness.

The priority industries of SETUP include food processing, furniture, gifts, decors and handicrafts, agriculture, marine, aquaculture,

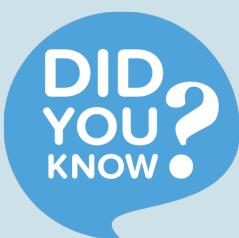


forestry, livestock, metals and engineering, Information and Communications Technology (ICT), health and wellness products, and halal products and services.

The qualified beneficiaries to the said program must be any MSME with business existing for at least three years, Filipino-owned operating in the Philippines and within any of the priority sectors, and willing to apply technological innovations to their existing products, services, operations, and business.

For more information about the SETUP program, MSMEs may visit or call the Provincial S&T Centers in their respective areas as indicated at the back of this newsletter.

## S&T Trivia



"Scientists have recently discovered that gonorrhea bacterium is, pound for pound, the strongest living creature on Earth, capable of pulling up to 100,000 times its own body weight!"

"Several million earthquakes occur each year across the planet, although many go undetected because they hit remote areas or have very small magnitudes."

"The average person has about 5 liters of blood, and the average heart pumps about 70 ml of blood with each beat. If your heart rate is 70 beats per minute, it will pump about 4.9 liters of blood (70 beats X 70 ml) in one minute, which is roughly your entire blood supply. So an individual blood cell should make a complete circuit of the body at least once every 60 seconds."

# NUTRIDENSE; SAVING CHILDREN FROM MALNUTRITION

By: Florde Liza L. Alida, DOST 1



**M**alnutrition is a rampant problem in the rural and urban areas in the Philippine archipelago. The Food and Agriculture Organization (FAO) of the United Nations said that about 4 million (31.8%) of the preschool population were found to be underweight. Further, underweight and energy deficiency were also experienced by about 3 million (19.8%) adolescents and 5 million (13.2%) adults including older persons.

While the problem is being eyed in the government's national agenda, advocates of anti-malnutrition are rising from the private sectors. The Nutridense Food Manufacturing Corporation (NFMC), a family-owned business in Sta. Barbara, Pangasinan was built and driven to help reduce malnutrition among kids.

## When in the Pharma; the first DOST encounter

Where can you spend your Php 20,000.00? Mr. Racky Doctor who was then teaching in one of the universities in Pangasinan was able to put up his Long Live Pharma in 1997. This Department of Health (DOH) accredited firm was the sole producer of Sodium Hypochlorite, known as Hyposol with the initial capital of Php20,000.00. Hyposol is a water treatment technology that can disinfect

and purify contaminated water for drinking.

With the increasing demand of Hyposol, Doctor did not hesitate to apply for the Department of Science and Technology-Small Enterprise Technology Upgrading Program (DOST-SETUP) in 2009. He was granted with Php 950,000.00 to purchase machines needed to enhance the production and packaging of Hyposol.

## The Expansion: from clean water to healthy food

However, DOST's partnership with Doctor did not end in Hyposol. He never knew that more opportunities are coming to expand his business. During one of the technology fora conducted by DOST 1 which he attended, he found his interest in adopting and commercializing the complementary food technologies from the DOST's Food and Nutrition Research Institute (FNRI). He entered again into another MOA with DOST-FNRI and DOST 1 about the project on Rice Mongo Curls and Rice Mongo Instant Baby Food.

Doctor's strong advocacy on health pushed him to build another family corporation in 2014—the NFMC. This was registered with the Securities and Exchange Commission and focused on the commercialization of available innovative and research-based food products. Among the first products commercialized are Rice Mongo Curls and Rice Mongo Instant Baby Food, branded as Rimo Curls and Rimo Instant Baby Food.

Rimo Curls and Rimo Instant Baby Food are a mixture of rice flour and mung beans that can supply minerals to the body like protein, calcium and more. These are research-based complementary food technologies of DOST-FNRI that can help reduce the risks of malnutrition.

For Doctor, the Rimo Curls and Rimo Instant Baby Food are not the end. He continued adopting more technologies of DOST-FNRI like the Iron Rice Premix and Iron Fortified Rice, which are in line with the Food Fortification law of the Philippines (R.A. 8976).

In order to maintain a higher quality standard and secure safe production of the products, he did not fail to avail another SETUP assistance from DOST 1 amounting to Php3,100,000.00 which paved the way for the acquisition of more facilities and equipment that boosted the quality of their products.

## NFMC: Serving healthy food to aid malnutrition

The products of NFMC are being distributed all over Region 1 and nearby regions. Aside from private institutions that are working to alleviate malnutrition, the complementary foods are also used in the DOH's feeding program, included in the family food pack of the Department of Social Welfare and Development, the DOST's Community Empowerment through Science and Technology program, and the Department of Education canteens to make them available for the kids. (...continued in page 7...)



# DOST BACKS ARABICA COFFEE PRODUCTION IN LICUNGAN



The machine at the center is the Coffee Dehuller which was turned-over to LCGA.

A new hope has finally shone for farmers of Arabica coffee in Barangay Licungan in Sugpon, Ilocos Sur as they received the set of technologies from the Department of Science and Technology (DOST) Region 1 through its Community Empowerment through Science and Technology (CEST) program.

*The sweet, natural taste and aromatic scent of Arabica coffee from Barangay Licungan cannot only be for the mountaineers and visitors in the village, but will soon conquer the lowland market.*

This was assured by the Licungan Coffee Growers Association (LCGA)- a community association organized and assisted by DOST 1 that received 1 unit of Multi Commodity Solar Tunnel Dryer (MCSTD), Coffee Dehuller, 10 units of Coffee Depulper, 50 sacks of fertilizers, and other tools for the maintenance of its coffee nursery.

Last December 2018, DOST sponsored a group of LCGA members for a training on coffee production at Benguet State University in La Trinidad, Benguet. After the training, the group conducted the same training to other members in Licungan, together with DOST. It also provided more than 3000 coffee seedlings, which are expected to be harvested in the first quarter of 2019.

At present, the DOST is continuously monitoring the activities of the association, and will conduct the training on the operation and maintenance of the equipment soon.

*"Agyaman kami iti insangbay yo. Daytoy laeng ti nakita mi nga asosasyon (refers to LCGA) nga agtultuloy nga supsupurtaran ti gobyerno," said Johny Agbuya, President of LCGA. He explained that from all the associations that have been organized in the barangay, the LCGA is the only one left and working for its goals. He also urged the members to continue to work and strive for the growth of the association.*



The Licungan Coffee Growers Association (LCGA) together with officials and staff of DOST Region 1 poses with the Coffee Depulper and other farming tools from DOST 1-CEST program.

## COMMUNITY ORGS IN ALAMINOS CITY LEARN PRODUCTIVITY AND SAFETY AT WORK

ALAMINOS CITY, Pangasinan – Forty-two (42) members of various organizations in Alaminos City attended free Seminars on Productivity Improvement through 5S Practice and Basic Occupational Safety and Health at Don Leopoldo Sison Convention Center in the city on February 19 and 20, 2019.

The said seminars, spearheaded by the Department of Science and Technology Provincial Office in Pangasinan in cooperation with the City Government of Alaminos, Pangasinan, is one of the interventions to be given to various organizations to improve their line of business, management and operations.

The participants came from fifteen (15) registered organizations which include, Persons with Disabilities (PWDs), farmers, fisher folks, souvenir makers, food processors, owners of canteen, restaurant and catering services in Alaminos City.

On the first day, Ms. Jacquelin J. Agonoy, Training Specialist I from the Metals Industry Research and Development Center (MIRDC), an attached agency of DOST, explained the concept of 5S as a systematic technique used by organizations, and this comes from the five Japanese words: *seiri* (sort), *seiton* (set in order), *seiso* (shine), *seiketsu* (standardize), and *shitsuke* (sustain).

This system will help them organize their workplace for increasing efficiency, decrease wasting and optimize quality and productivity by monitoring and organized environment.

Meanwhile, Engr. Reynaldo L. Dela Cruz, Jr., Chief of Industrial Training Section of DOST-MIRDC discussed the Basic Occupational Safety and Health on the second day. This equipped the participants with basic knowledge and skill on identifying safety, health, and environmental hazards. Engr. Dela Cruz also discussed the appropriate controls measures and Occupational Safety and Health (OSH) policies and programs. (...next page...)

# MADALI AT MAKAKALIKASANG PAMAMARAAN NG PAG-UULING, IBINAHAGI NG DOST-FPRDI SA SAN QUINTIN

Ang Department of Science and Technology- Forest Products Research and Development Institute (DOST-FPRDI) ay nagbahagi ng kanilang kaalaman sa makabagong pamamaraan ng pag-uuling mula sa biomass gaya ng ipa, dayami at mga maliliit na sanga na hindi makasisira sa kagubatan sa bayan ng San Quintin, Pangasinan partikular sa samahan ng Caraballo Animal Raisers Association Inc. Ang asosasyon ay mula pa sa kabundukan ng nasabing bayan at isa sa pinagkuhanan ng hanapbhay ang pag-uuling.

Ang bayan ng San Quintin ay pinakalooban ng DTI ng mga makina sa pag-uuling gaya ng carbonizer, charcoal pulverizer, mixer, compactor at steel display rack sa ilalim ng proyekto ng Shared Service Facilities (SSF). Itinuro mismo ng mga eksperto sa pag-uuling ang paggamit sa mga nasabing makina sa paggawa ng charcoal briquettes. Ang mga agricultural waste ay ginawang durog na uling at hinaluan ng cassava starch o harina na mula sa camote at hinulma bilang briquettes.

*“Ang uling ay kailangan ng taga-lunsod ‘pag nag-iihaw kaya dito lang po sa atin at sa bundok, kahit ‘di na tayo lumayo pa ay marami nang mapagkakitaan, basta masipag tayo. Bawal na ang magsunog ng mga punong kahoy dahil sa climate change kaya dapat marunong tayong gamitin ng maayos ang ating matutuhuan para maging successful at hindi mabalewala,”* pahayag ni Mayor Clark Cecil Tiu.

Nagpahayag si Forester Moreno L. Santander Jr. ng FPRDI tungkol sa kahalagahan ng kagubatan. Aniya, *“Ang puno ay nag-ipon ng tubig sa kanyang katawan para hindi mabilis ang pagdaloy nito sa mga ilog. ‘Pag mabilis ang daloy ng tubig, doon na nagkakaroon ng flashflood o biglaang pagbaha. Mahirap labanan ang pwersa ng tubig. Mula sa mga ipa, dayami, busal ng mais, balat ng mani, ipil-ipil at iba pa ay pwede na tayong makabuo ng uling nang hindi nagpuputol ng kahoy.”*

Ang naganap na pagsasanay ay kahilingan ng DTI at Negosyo Center ng San Quintin para sa mga nag-uuling sa bayan. Kamakailan lang, nabuksan ang Negosyo Center sa nasabing bayan na pwedeng lapitan ng lahat ng mga interesadong magnegosyo. Tumutulong din sila sa packaging and labeling ng mga produkto, pagpapahaba ng shelflife, pagbibigay ng pangkabuhayang pagsasanay at iba pang konsultasyon. Kahalili dito ang DOST- Pangasinan S&T Center Satellite Office na nakabase sa Lungsod ng Urdaneta sa pagbibigay ng mga katulad na serbisyo.//*Angelyn B. Cimatu*

(from page 6..Community Orgs)... The seminars were made possible through the initiative of the City Science and Technology Coordinating Council (STCC) of Alaminos City. The S&T Coordinating Council was created through an Executive Order issued by the City Mayor during the Science and Technology Caravan conducted last September 2018. This council acts as the local advisory/recommendatory body pertaining to science, technology and innovations (STI) plans and policies.//*Bernalyn P. Martinez*

(...from page 5...Nutridense...)

While Doctor is continuous in strengthening his marketing linkages, he also encourages micro, small, and medium enterprises (MSMEs) to attend DOST activities like technology fora where business opportunities are learned. He is also looking forward to adopting more technologies from DOST.

*“Kami po ay tumitingin pa rin ng mga bagong tekno洛hiya ng DOST at tuloy ang aming pakikipag ugnayan para alamin ang mga bagong programa nito,”* said Doctor.

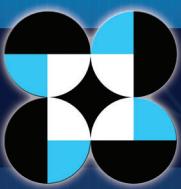
He added that, *“hindi naman po yung may-ari lang ang nakikinabang dito. We employ a lot of people. Ang aming pong pinagbibilhan ng mga raw materials ay galing mismo sa mga farmers na nakikinabang sa enterprise na ‘to. And of course para sa mga customers, dedicated po ang mga product para lalong gumanda ang ating kalusugan.”*

At present, Doctor is also the President of the Pangasinan Entrepreneurs Development Association Inc. (PEDAI). Aside from guiding his fellow entrepreneurs, he is also an active partner of DOST in promoting Iron Fortified Rice, Iron Rice Premix, and complementary food technologies in the region.

His effort and passion in promoting and commercializing these technologies were recognized, thus the NMFC was awarded the *“Kabalikat Achievement Award”* as Outstanding FNRI Malnutrition Reduction Program (MRP) Technology Adopter in the Large- Scale category on June 27, 2018 at Dusit Thani Hotel, Makati City.



Labis na paggalak ang masisilayan sa labi ng mga membro ng Caraballo Animal Raisers Association Inc sa San Quintin, Pangasinan dahil natutunan nila ang mas madali at hindi nakakaperwisyo sa kalikasang pamamaraan ng pag-uuling sa pamamagitan ng DOST-FPRDI.



# DEPARTMENT OF SCIENCE AND TECHNOLOGY

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