

ILOCOS S&T TRENDS

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The Official Newsletter of the Department of Science and Technology Regional Office I

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HIGHLIGHT

**DOST 1, PGIN LAUNCH
ONESTORE.PH TO BOOST
LOCAL MSMES AMIDST PANDEMIC**

▶ ▶ Page 4



EDITORIAL



I am delighted to bring you the second quarter issue of the S&T Trends for 2021!

DOST Region I's capacity to invest in knowledge and potentials in the field of science and technology (S&T) has a great role in addressing issues especially in this trying time. Though, we cannot deny that there are still gaps such as information and coordination of S&T activities up to the grassroots that confront development in the region. Thus, the promotion of S&T in different platforms.

And of course, we cannot stand alone in bridging these gaps and realize our accomplishments without the help and expertise of our partners from both government and private sectors.

One of these, as highlighted in this issue, is the launching of the oneStore Hub in Ilocos Norte in partnership with the Provincial Government of Ilocos Norte. The hub aims to help micro, small and medium enterprises in Ilocos Norte increase their sales and promote their products through the oneStore.ph online marketing platform. Moreover, we carry on with our commitment to provide quality products and services to the people through the various programs, projects and activities of the agency such as Small Enterprise Technology Upgrading Program (SETUP), Community Empowerment through Science and Technology (CEST), S&T Scholarships, laboratory services, S&T Promotion, S&T information services and among others.

Let us continue to work as one in bringing science to the people because at the end of the day, it will be a development for all.

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DOST 1, PGIN launch oneStore.ph to boost local MSMEs Amidst Pandemic

by PSTC – ILOCOS NORTE, Kent J. Ramil, Project Assistant II



As a response of the Department of Science and Technology (DOST) Region 1, through its Provincial Science and Technology Center-Ilocos Norte (PSTC-IN) and in partnership with the Provincial Government of Ilocos Norte (PGIN), an online marketing platform called oneStore.ph and a hub was launched on June 24, 2021 to help boost the economic growth of the Micro, Small and Medium Enterprises (MSMEs) in the province.

The launching of the oneStore.ph was held at the Paseo De Paoay, #14 Paoay, Ilocos Norte, right across the iconic Paoay Church, a UNESCO Heritage Site and one of the tourist go-to spots because of its majestic view. Over 50 MSMEs with more than 100 Ilocos Norte-produced products were promoted as part of the PGIN oneStore.ph. This will help the MSMEs in Ilocos Norte boost their sales and products by reaching a greater number of consumers.

Most of the displays are DOST-assisted products, a range from agricultural items to processed local food products like ground coffee, chicacorn, bagnet, banana chips, camote chips, dried noodles, shell and bamboo crafts, woodworks and artisan furniture, heritage fabrics like the Abel Iloco and binakol, and other traditional and souvenir items. Ms. Elma O. Gabriel, head of the PGIN-Small Medium Enterprise Office (SMEO) shared that with the good turnout of the launching and orders from the oneStore.ph, they are expecting an increase in sales by at least 20%.

DOST Secretary Fortunato T. de la Peña and Ilocos Norte Governor Matthew J. Marcos Manotoc led the ribbon-cutting ceremony to officially open the Hub to the public. “We turn problems into opportunities,” said Secretary de la Peña during his message, indicating a great milestone with the partnership between DOST-PSTC IN and PGIN.



In addition, he proudly stated how the agency is changing the lives of every Filipino through Science and Technology across the country.



DOST Secretary Fortunato T. de la Peña delivering his message



DOST 1 Regional Director Dr. Armando Q. Ganál delivering his message

Also, DOST 1 Regional Director Armando Q. Ganál, reassured that the partnership between the agency and PGIN will be strengthened amidst the pandemic and pledged the continued support of the agency to all the 'kailians' in the province. Also present during the launching were DOST-PSTC IN Director Benjamin S. Mercado, Jr., oneStore.ph Project Developer Christopher Musni, DTI representatives, PGIN Department Heads, and SMEO Head Gabriel.

After the opening program and launching, the parties went to a closed-door luncheon meeting and further discussed the future projects of the agency between the province and other stakeholders.

Coinciding with the launching is the awarding of a vending machine to be placed at the Provincial Capitol, and five (5) RxBox Telemedicine devices to five (5) Local Government Units in the province.

DOST 1 awards RxBox telemedicine devices to Ilocos Norte

by DOST 1 – Rx Box 1000 Project, Carla Joyce Cajala, Project Assistant II

The Department of Science and Technology 1 awards five (5) RxBox telemedicine devices to five (5) municipalities of Ilocos Norte during the Launching of the Provincial Government of Ilocos Norte (PGIN) oneStore Hub in Paseo de Paoay, Paoay, Ilocos Norte on June 24, 2021. The event was graced by DOST Secretary Fortunato de la Peña, Ilocos Norte Governor Matthew J. Marcos Manotoc, Ilocos Norte Vice Governor Cecilia Araneta-Marcos, DOST 1 Regional Director Armando Q. Ganál and other officials from national agencies and the Local Government of Ilocos Norte.

The beneficiaries: Dingras, Laoag City, Batac City, Burgos and Bangui, receive the RxBox telemedicine devices through their representatives. Governor Manotoc expresses his gratitude to DOST for equipping them with science and technology assistance and he regards the devices to be beneficial in this time of pandemic and is seen as a welcome development in Ilocos Norte.

Furthermore, Secretary Fortunato de la Peña reiterated that RxBox devices have been utilized during this COVID-19 outbreak, and is a great help for those in the far-flung areas who have limited access to healthcare.



DOST Secretary Fortunato T. de la Peña, together with the DOST 1 RxBox Project Staff, award the RxBox Devices to the representatives of Dingras, Laoag City, Batac City, Burgos and Bangui.

The device allows diagnosis of patient's conditions within the health facility through the medical sensors inside the box. The RxBox 1000 project seeks to improve telemedicine in Geographically Isolated and Disadvantaged Areas.

The ceremonial awarding of the RxBox telemedicine devices commences the deployment stage of the project to the identified beneficiaries in Region 1 along with the online and offline training of the Super Users for each Local Government Unit.

DOST program for OFWs kicks-off in Pangasinan

by PSTC – PANGASINAN SATELLITE OFFICE, Hannah N. Meim, Project Assistant I



Are you a former Overseas Filipino Worker (OFW), or still an OFW at present? Do you have the passion to pursue a business rooted in science, technology and innovation? Then, the DOST's Innovations for Filipinos Working Distantly from the Philippines (iFWD PH) program is for you!

To date, DOST 1 Regional Director Armando Ganal is spearheading the Department of Science and Technology (DOST) iFWD PH. The program paves the way into the in-depth project implementation of grantees' proposed undertakings in the region. The team organized a site visit for each iFWD graduate's proposed production site situated at San Manuel and Manaoag, Pangasinan last March 09, 2021. The visit includes the assessment, thorough planning, and outlining of the proposed area. Director Ganal looks forward to the immediate implementation of the projects once vital documents and processes are complied.

The number of Filipino workers abroad who lost their employment due to the worldwide crisis is notable

hence, the DOST launched the program as a response in the increasing number of OFWs severely affected in these trying times.

The iFWD PH program was founded in hopes of an inclusive growth and development, looking forward in providing scientific-based opportunities for economic prosperity.

Moreover, the program aims to stir up hope for OFWs, bringing them a fresh start by engaging themselves in science and technology pursuits. DOST will provide assistance and necessary interventions in achieving the grantee's chosen field of endeavor.

Interested applicants may reach out to the agency through its provincial offices via mail@region1.dost.gov.ph. Take the leap on this not-to-be-missed chance!

DOST-1 orients 24 OFWs on the iFWD Ph Program

by DOST-1 SETUP Regional Program Management Office, Michael Daniel L. Ramirez, Project Assistant I

The Department of Science and Technology – Regional Office 1 (DOST-1), through the Regional Program Management Office (RPMO), conducted an orientation for the Overseas Filipino Worker (OFW) applicants about the Innovations for Filipinos Working Distantly from the Philippines (iFWD Ph) Program on May 4, 2021 via Microsoft Teams.

The virtual activity was attended by 24 participants from the region along with the staff from the Provincial Science and Technology Centers (PSTCs) in Region I who will assist the applicants throughout the process.

ORIENTATION ON THE iFWD PH PROGRAM

DEPARTMENT OF SCIENCE AND TECHNOLOGY
REGIONAL OFFICE NO. I



The orientation was conducted to introduce the iFWD Ph Program, to eligible OFWs who have been repatriated or have returned home to the Philippines within the last three (3) years, or to their immediate family members such as the spouse, parent, or children of legal age.

The iFWD Ph Program of the DOST aims to provide support and opportunities to OFWs and their immediate families to establish technology-based enterprises in the country.

Among the sectors covered by the iFWD Ph Program are food processing (ie. sweet preserves, spreads, bottle food products, beverages, etc.), furniture making (ie. tables, cabinets, chairs, etc.), gifts, housewares, decors (ie. tailored products, leather goods, souvenirs, other creative products), agriculture, marine, and aquatic resources (ie. farming, poultry, livestock, horticulture, hydroponic, etc.), metals and engineering (ie. fabrication of food processing equipment, farm implements, or agrimachinery, welding, ads and signages), health and pharmaceuticals (ie. health and wellness products, medicines, food supplements), ICT/electronics (ie. systems development, automation, manufacturing of electronic products), and science and technology services (ie. engineering consultancy, IT consultancy).



The program's framework is divided into three (3) phases; the Pre-implementation phase, which comprises the application period of interested OFWs and the analysis of the value and supply chain gaps; the Phase 1, which highlights capacity building for the development and management of technology-based enterprise; and Phase 2 which focuses on innovation funding for the technology-based enterprise. The implementation of Phase 1 of the program is scheduled in June this year.

The DOST continues to implement programs, projects, and activities to support OFWs and their families.

DOST-developed technologies, innovations feature in DOST-1's 'TeknoLokal para sa Makabagong Bayani'

by DOST-1 SETUP Regional Program Management Office, **Katrina F. Ronquillo**, Project Assistant II

The Department of Science and Technology Regional Office 1 (DOST-1) spearheads a 3-day virtual technology pitching session of locally-developed technologies from the DOST-Planning Sectoral Councils and Research and Development Institutes (RDIs) in May 11, 14 and 17, 2021 via Microsoft Teams.

Dubbed as "TeknoLokal para Makabagong Bayani", the technology pitching sessions aim to spark the interest of applicant-Overseas Filipino Workers (OFWs) in the adoption of DOST-developed technologies for their proposed technology-based venture which will then be funded under the Innovations for Filipinos Working Distantly from the Philippines (iFWD Ph) Program.

TEKNOLOKAL

Para sa Makabagong Bayani

"DOST Sectoral Planning Councils and Research and Development Institutes Technologies"

The TeknoLokal series was conducted in anticipation of the Program's Phase I which is focused on the Capacity Building and Core Business Development sessions this coming June, where the OFWs will be attending virtual lectures that will capacitate them to conceptualize their technology-based business proposals.

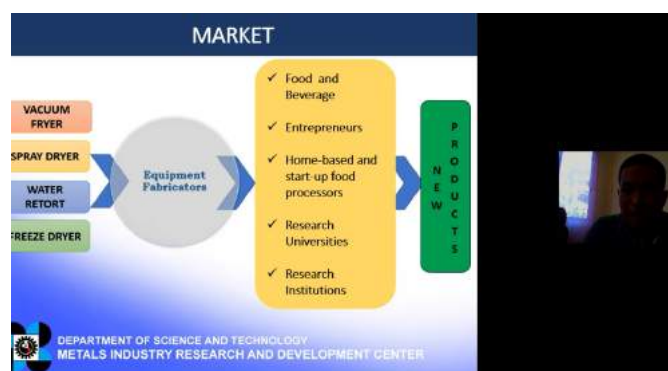
The first session of the TeknoLokal last May 11, 2021 showcased the food technologies of the DOST-Food and Nutrition Research Institute (FNRI). Ms. Lea B. Landicho, Science Research Analyst of the said Institute, presented the mandates of DOST-FNRI and its laboratory services, and the transferable and commercializable food technologies. Among the technologies the DOST-FNRI is offering for commercialization are the Iron-Rice Premix and Iron Fortified Rice; Tubig-Talino (Iodine-rich drinking water); Stabilized Brown Rice; rice-mongo products; and squash-supplemented products. Ms. Landicho also explained the Institute's protocol on the transfer of these food technologies.

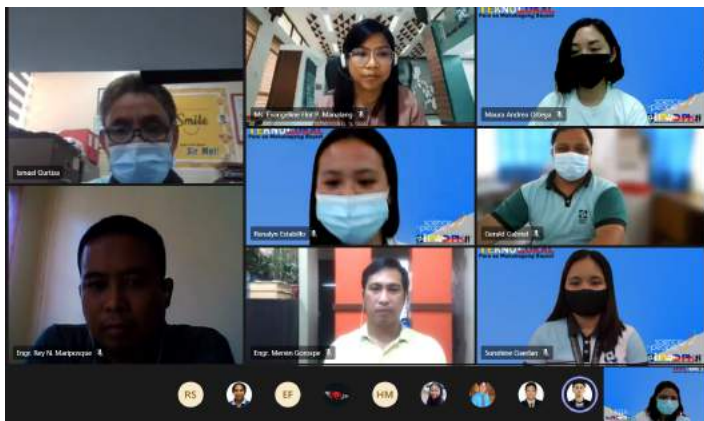


The second episode of the tech pitching session covered the innovative technologies of the DOST-Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (PCAARRD) and the DOST-Forest Products Research and Development Institute (FPRDI). Ms. Lucy A. Lastimosa, Senior Science Research Specialist under the Technology Transfer and Promotion Division and the Assistant Center Manager for Innovation and Technology Center of the DOST-PCAARRD served as the resource speaker. Prior to her discussion on the several agricultural technologies, Ms. Lastimosa

tackled the "From Lab to Market" flow-chart pertinent to the Council's research and development undertakings. The flowchart depicts how the DOST-PCAARRD brings their research outputs to their beneficiaries. In addition, Ms. Lastimosa elaborated the DOST-PCAARRD's Technology Transfer Pathways – the Deployment which is focused on the distribution and application of specific technologies to strategic geographic areas and appropriate institutional settings; the Extension or the transfer of knowledge-based tools and cultural management; and the Commercialization that involves the provision of assistance to researchers and matching private sector interest with technology owners/investors.

Among the DOST-PCAARRD's technologies that complement various agricultural activities include farm machineries such as the Rice Harvester Attachment which is used for efficient rice harvesting; the Ride-On Rice Precision Seeder suitable for both hybrid and inbred rice production; the Coffee Greenhouse Solar Dryer that intends to provide alternative method for drying coffee beans instead of directly exposing them to sunlight; the Mechanical Cacao Sheller which is an innovative machine that can process cocoa beans into cocoa nibs; the Pelletizing Machine for Goat Feeds appropriate for on-farm pellet production; and the Sea Cucumber Dryer designed for small-scale fisherfolks involved in the harvesting of sea cucumbers, to name a few. Aside from the farm machineries, Ms. Lastimosa also presented the different types of biofertilizers, biopesticides and food technologies developed that are also available for commercialization.





PRODUCTS FROM WOOD



In the last leg of the Teknolokal virtual series, the OFW-attendees learned the innovative technologies from the DOST-Metals Industry Research and Development Center (MIRDC) and the DOST-Philippines Textile Research Institute (PTRI). Engr. Mervin A. Gorospe tackled the innovations that could help enhance processes in ceramics production and the tent system that could be used for emergency situations. Engr. Gorospe also introduced the Integrated Wrought Iron-Forming Equipment (iWIFE) which can be an advantage for metal fabricators particularly in the twisting, rolling, bending, and curling jobs for metal works. Conversely, Engr. Rey N. Mariposque talked about the machineries vital to the food and beverage processing industry.

Lastly, Ms. Evangeline Flor P. Manalang, Supervising Science Research Specialist of the DOST-Philippine Textile Research Institute (PTRI),

pitched the Institute's innovations apt for textile manufacturing. In her discussion, Ms. Manalang elaborated the textile technology-based business opportunities the OFWs may adopt in their business ventures with the iFWD PH Program.

The iFWD PH Program is an initiative of the DOST to help repatriated OFWs establish their own technology-based enterprises in hopes to encourage them to settle in the Philippines for good, and in response to the increasing number of OFWs returning to the country due to the COVID-19 pandemic. Interested OFWs may still submit their application through the iFWD Ph portal: <https://ifwdph.dost.gov.ph> or send their requirements to the DOST-1 Regional Office or to the nearest DOST-Provincial Science and Technology Center in their area.

DOST-1 staff undergo 2-day training on Technology Needs Assessment

by DOST-1 SETUP Regional Program Management Office, **Michael Daniel L. Ramirez**, Project Assistant I

The Department of Science and Technology Regional Office 1 (DOST-1), through the Regional Program Management Office (RPMO), conducted a training for Field Operations staff about the proper procedures in the conduct of Technology Needs Assessment (TNA) for micro, small, and medium Enterprises (MSMEs), community-based organizations, and Overseas Filipino Workers (OFWs), on June 1-2, 2021 via Microsoft Teams.

Technology Needs Assessment is a systematic review of the firm's technology requirements giving the management a total picture of the enterprise's current technology status. It is a tool that gauges the actual technology needs, particularly the strengths and weaknesses relative to the core business functions, of an enterprise seeking assistance.

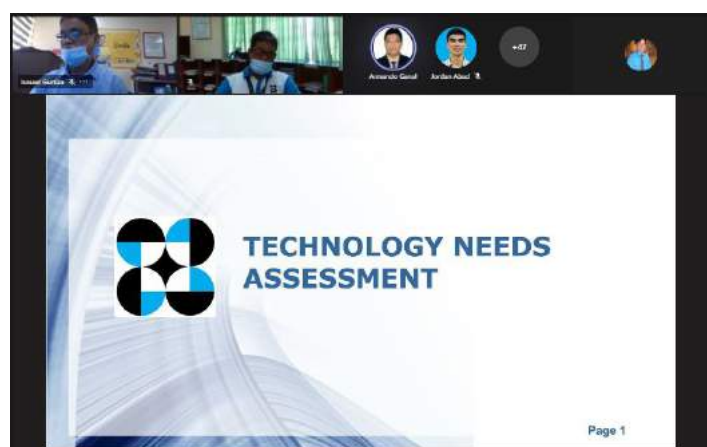
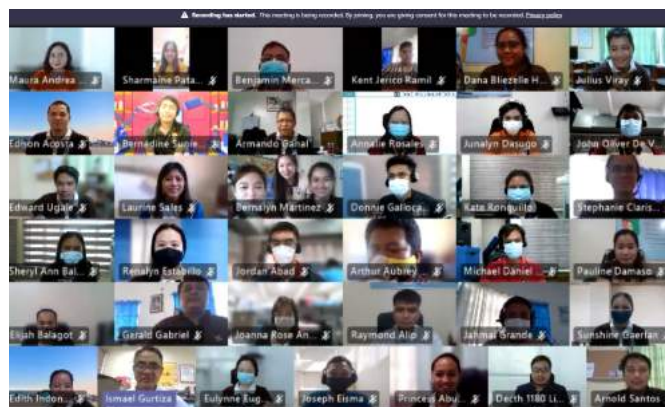
It helps identify gaps in the firm's current structure, highlighted inadequacies particularly where the technology is most needed to boost productivity of the firm.

Through the Provincial Science and Technology Centers (PSTCs), interested MSMEs and community organizations may request for support, which may be in the form of appropriate technologies for adoption, including sourcing and acquisition of the required interventions.

The online activity was attended by 47 participants, including staff from the DOST-1 Regional Office and PSTCs who will execute the TNA to clients in their respective provinces.

Dr. Armando Q. Ganai, DOST-1 Regional Director, spearheaded the lecture on salient points in undertaking an in-depth TNA. Director Ganai also stressed the need for an inquisitive character in executing a TNA to gather adequate and accurate information about the client. This will be the basis in creating a sound project proposal which is a requirement prior to the provision of assistance.

The lecture was followed by a workshop where the participants were clustered into four (4) groups, and each group was tasked to assess a firm



applying for SETUP (Small Enterprise Technology Upgrading Program) assistance. The participants were able to apply the learnings from the lecture.

Each group presented their findings written in the TNA Form for evaluation. The outputs were critiqued by the panel composed of Director Ganai, Dr. Ismael D. Gurtiza, Assistant Regional Director for Field Operations, and Provincial S&T Directors – Engr. Benjamin Mercado for Ilocos Norte, Officer-in-Charge Engr. Jordan L. Abad for Ilocos Sur, Mr. Jonathan M. Viernes for La Union, and Engr. Arnold C. Santos for Pangasinan.

According to Dr. Gurtiza, the virtual activity was implemented to capacitate new staff from both the Regional Office and the PSTCs in conducting TNA. Dr. Gurtiza also highlighted the priority sectors where the DOST can provide appropriate interventions.

Dr. Gurtiza also added that another training is scheduled, specifically the drafting of a project proposal which is a comprehensive report of the inputs gathered from the TNA including the recommended technology interventions to the firm.

DOST-1 continues to conduct activities and trainings to improve the capability of its staff in the different science and technology programs, thus enhancing its service to clients in the region.

DOST, MMSU conduct water sampling in Carasi, Ilocos Norte

by PSTC – ILOCOS NORTE, Kent J. Ramil, Project Assistant II

As part of the Community Empowerment through Science and Technology (CEST) program and the drive to provide clean and potable water for the municipality of Carasi, the Department of Science and Technology in Region 1 (DOST-1), through its Provincial Science and Technology Center-Ilocos Norte (PSTC-IN) and the Mariano Marcos State University (MMSU), conduct water sampling on May 20, 2021, to the different barangays in the said municipality.

Jahmai O. Grande, PSTC-IN CEST Coordinator, together with Ms. Cyrille Ann B. Manalon from the DOST 1 – Regional Standards and Testing Laboratory, Dr. Floramante Pastor, and Ms. Estrelita O. Domingo of the MMSU Research Extension, conduct water sampling to 23 households in Carasi town.



A total of 26 samples were gathered from said households including the main sources of spring water in the municipality. The samples will undergo microbial analysis and potability test at the DOST-RSTL to determine the intervention that will be provided for the communities.

As part of the priority areas under Water and Sanitation, Ms. Manalon stated that it is very important to determine if there are hazardous microbes in the water samples since most of the households in the community drink from spring water sources. The result of the test will be released 2 to 3 days upon collecting the samples.

During the water sampling, a calibration caravan was simultaneously conducted in the municipality. The CEST Team is expected to implement more S&T interventions to the community in the succeeding days.



DOST-1 facilitates the Adoption of the Improved Salt Processing Technology (iSALT) in Ilocos Sur

by PSTC - ILOCOS SUR, Laurine R. Sales, Project Assistant II



(R) Mr. Ramon S. Sumabat, Provincial S&T Director-Ilocos Sur, supervises the test run of the salt production facility together with Ms. Grace Monterola and Mr. Judy Monterola, owner of JM Salt Refinery in Pangasinan. Ms. Mary Clauderine Jaramillo and Mr. Rowel Jaramillo, owner of Puerto Salt Refinery in Sto. Domingo led the gathering of their first product of salt.

The Department of Science and Technology Region 1 (DOST 1) continued to provide technological innovations to residents of the region to improve quality of life and sustainability.

The DOST 1, through its Provincial Science and Technology Center-Ilocos Sur (PSTC-IS), in collaboration with the DOST - Industrial Technology Development Institute (DOST-ITDI) and initiative of Congressman Deogracias Victor B. Savellano, facilitated the adoption of the Improved Salt Processing Technology (iSALT) in Brgy. Calay-ab, Sto. Domingo, Ilocos Sur. The joint project was started in 2019 entitled "Upgrading and Expansion of Salt-Making industry in the First District of Ilocos Sur" funded by the DOST 1 which aims to improve the ecosystem for salt production in the first district.

The iSALT project was granted to Ms. Mary Clauderine B. Jaramillo, owner of the Puerto Salt Refinery in Brgy. Calay-ab, Sto. Domingo, Ilocos Sur.

As part of the project, the construction of the two-unit evaporating setup was completed on December 14, 2020, and the saturation reservoir was completed on January 27, 2021.

Prior to its full operation and launch, a test run was conducted on May 4, 2021. Due to the drastic increase of COVID-19 cases which restricts travel of experts from Manila, DOST 1 instead, invited JM Salt Refinery in Infanta, Pangasinan, the pilot beneficiary of the iSALT project and a beneficiary of the Small Enterprise Technology Upgrading Program (SETUP), as technical consultant to lead or supervise the test run.



During the activity, Ms. Jaramillo expressed her earnest gratitude to the DOST for granting them a livelihood and assured to sustain the salt production in Sto. Domingo. *"Kami ang unang mag asin dito sa Sto. Domingo"* (We will be the first salt producer in Sto. Domingo), she said. Ms. Jaramillo has high hopes that the salt they produce will be sustainable in their municipality rather than being supplied in the neighboring province.

After the test run, about eight (8) cans of salt were produced. Minor adjustments or improvements, as recommended by the consultants will be done on the evaporating setup. Mr. Ramon S. Sumabat, Provincial S&T Director, ensured the project will be fully operational and will be launched after the adjustments.

The i-SALT was developed by the DOST-ITDI envisioned to help local salt producers to improve their productivity and product in compliance with ASIN Law (RA 8172).



DOST 1 conducts livelihood training to ACA barangay in Nagbukel

by PSTC - ILOCOS SUR, Pauline T. Damaso, Project Assistant I

Nagbukel, Ilocos Sur- Hawaiian mangoes often neglected and wasted in this town could now be developed, thanks to the Department of Science and Technology Regional Office 1 (DOST-1)- Provincial Science and Technology Center Ilocos Sur (PSTC-IS) through its Community Empowerment through Science and Technology (CEST) Program, mango processing technologies were introduced to 22 residents of Brgy. Taleb, an Armed Conflict Affected (ACA) barangay, last June 03 providing them new business opportunity.



Mayor Amalia C. Cabrera expressed her gratitude to DOST-1 for conducting the training in the far-flung barangay. Cabrera also encouraged the participants to continue with the venture as it could help increase their income and that their products could be added in the One-Barangay-One-Product (OBOP) of the municipality.

"If the mango production continuous, they can add dried mango and candy to their product line that could be exported in the future," added Mayor Cabrera.

The blended training is in collaboration with the DOST-Panganinan State University - Food Innovation Center (PSU-FIC) who was tapped with experts introducing technologies in making jam, puree, juice, pastillas, and wine out of mango. The pre-recorded demonstration video was used in the hands-on training assisted by DOST-1 CEST staff in the field.



(Left photo) The participants during the hands-on training and the product output: mango jam, mango puree, mango pastillas, mango juice, and mango wine.



Resource Persons from PSU includes Dr. Wilma M. De Vera, Associate Professor V, on mango jam making; Ms. Charissa De Vera, Instructor I, on making mango juice and puree; Mrs. Veronica C. Austria, Associate Professor V, on mango pastillas; and Ms. Meryl A. Bernardino, Project Assistant II of DOST 1, on making mango wine.

Brgy. Taleb is one of the two barangays under CEST - End Local Communist Armed Conflict (ELCAC) program in the municipality.

DOST 1 upgrades the Drying Facility of Costales Ricemill in Magsingal, Ilocos Sur

by PSTC - ILOCOS SUR, Laurine R. Sales, Project Assistant II



(Right) Mr. Ramon S. Sumabat, Provincial S&T Director spearheads the test run of the newly acquired mechanical dryer of Costales Ricemill owned by Mr. Francisco Costales(center) and Mrs. Charito Costales (left).

The Department of Science and Technology Region 1 (DOST 1), through its Provincial Science and Technology Center - Ilocos Sur (PSTC-IS) conducted a test-run of the newly acquired Hopper Type Mechanical Dryer provided under the Small Enterprises Technology Upgrading Program (SETUP) to the Costales Ricemill on May 27, 2021.

The 15-ton mechanical dryer is designed to be multi-crop suitable for both rice and corn. These commodities could be dried for 12-15 hours depending on its moisture content.

The mechanical dryer can help decrease post-harvest losses of the firm by up to 30% or up to 1,200 cavans of palay due to increased drying recovery or lesser occurrence of deteriorated, discolored, and germinated grains.

During the test run, 6,693 kilograms of palay was dried for 7 hours compared to their existing drying facilities with 12-16 hours drying time.

According to Provincial S&T Director Ramon S. Sumabat, Costales Ricemill is the first in the region to acquire such intervention through DOST SETUP. He also admired the firm for being responsible in their project with the DOST and appreciated its fully upgraded equipment and facilities.



Mr. Francisco A. Costales, Jr. and Mrs. Charito Costales, owners of the Rice mill, expressed their sincerest gratitude to the DOST through the PSTC-Ilocos Sur for giving them a chance in upgrading their drying facility. The firm was initially assisted with a color sorter machine during their first availment of the SETUP.

Costales Ricemill is a licensed miller and dealer of the National Food Authority (NFA) and was awarded as the third placer in the NFA's 2015 National Best Rice Processor/Miller in the country. The same year, the firm was awarded as the NFA's Best Rice Processor/Miller in the region.

The SETUP targets to upgrade existing equipment and facilities of the micro, small, and medium enterprises nationwide that could boost their products, services, and operations, thereby increasing their productivity and competitiveness.



The DOST PSTC-Ilocos Sur could be reached at ilocossur@region1.dost.gov.ph or mobile number 0998-962-0230, for interested firms who want to avail of the program.



DOST-1 extends support to Sossy Bites Food Trading through SETUP

by PSTC – LA UNION, Princess P. Abuan, Project Assistant II



City of San Fernando, La Union – The Department of Science and Technology Region 1 (DOST I), through the Provincial Science and Technology Center of La Union (PSTC-LU), provided technological interventions to Sossy Bites Food Trading through the Small Enterprise Technology Upgrading Program (SETUP) – Innovation-Enabling Fund (iFund).

Sossy Bites Food Trading is a home-grown business founded and established in 2017 owned by Ms. Florence A. Lasquite. The business only began with puto bumbong until such time that the range of products grew. Now, the firm offers various native delicacies with a twist such as black kutsinta, ube puto maya, pichi-pichi, sapin-sapin, puto bumbong, fruity biko and other merienda classics like baked mac, cassava cakes, pancit bihon, palabok, and buchik.

Ms. Lasquite wanted to improve the quality of her products and cater more orders so she sought assistance from DOST under the SETUP. She was granted funds payable for three (3) years.

The production facility of the firm was upgraded after receiving baking equipment such as single-deck gas oven, spiral mixer, and stainless steel food grade working table.

Aside from the provision of equipment, Ms. Lasquite also benefited from DOST's current Good Manufacturing Practices (cGMP) seminar-workshop and provision of proper plant lay-out that adheres to the Food and Drug Administration (FDA) requirements. "We can already cater more orders, thank you to DOST for all your help", Ms. Lasquite added.

DOST SETUP is a form of innovation fund assistance that encourages micro, small, and medium enterprise to adopt technological innovations to boost productivity and competitiveness. It covers the following sectors – food processing, furniture, gifts, decors, handicrafts, agriculture/marine/aquaculture, metals and engineering, ICT, pharmaceuticals, health, and wellness products.

DOST 1 holds cGMP and Skills Training on Bubod Making & Rice Wine Processing

by PSTC – LA UNION, Eiryz Clyde Angelique D. Orpilla, Project Assistant I

The Department of Science and Technology Regional Office No. 1 (DOST 1), through the Provincial Science and Technology Center – La Union (PSTC-LU), in collaboration with the National Commission on Indigenous Peoples (NCIP) and Local Government Unit of Sudipen, conducted a 2-day awareness seminar on current Good Manufacturing Practices (cGMP) and skills training on Bubod making and Rice Wine Processing.

20 members of the Sudipen Women Indigenous Peoples Organization (SWIPO) actively participated in the said activity held last May 27-28, 2021 in Poblacion, Sudipen, La Union.

In the rural communities of the Municipality of Sudipen, producing rice wine has been part of their tradition. The traditional process of making rice wine has been passed through generations and it is being used in their cultural celebrations, be it in wedding, birthday & anniversary celebrations and other festivities.

Ms. Princess P. Abuan, Project Assistant II and Food Safety Expert of PSTC-LU, served as the resource speaker of the seminar on cGMP. She discussed the importance and benefits of cGMP to assure a safe, wholesome and quality of product. Afterwards, on the skills training on Bubod Making, Mrs. Minerva D. Wayet extended her expertise as a resource speaker. Mrs. Wayet is a maker of traditional bubod in Sudipen. She learned the traditional way from their ancestors and has mastered it through the years. She discussed and demonstrated the way how a good quality bubod is made.

Mayor Wendy Joy D. Buquing was also present during the training. She told the attendees that she highly values the rice wine (tapey) produced by the association and gave her support to help them promote and market it.

On the second day, Ms. Abuan shared and demonstrated the technology on Rice Wine Processing to capacitate the participants and enhance their traditional practice.



Group picture with Mayor Wendy Joy Buquing



Ms. Princess P. Abuan discussing the current Good Manufacturing Practices (cGMP)



Mayor Buquing giving her message and support to the organization.



The members of SWIPO together with Ma'am Salud Dalog (NCIP), Ms. Princess P. Abuan (DOST) and Engr. Eiryz D. Orpilla (DOST).

An awarding ceremony took place after to appreciate and recognize the participation of the members of SWIPO and the resource speakers. Mrs. Salud U. Dalog, First District CDO III of NCIP, and a representative from LGU Sudipen awarded the certificates to all the participants.

At the end of the activity, Mrs. Marilou S. Gaoaen, the President of SWIPO, sincerely thanked the DOST and NCIP for providing them the assistance and training that can equip them with skills and knowledge on producing *tapey* and to have additional income opportunities.

DOST-I conducts Awareness Seminar on current Good Manufacturing Practices in Aringay, La Union

by PSTC - LA UNION, Catherine M. David, Project Assistant I



The Department of Science and Technology Regional Office I (DOST I), through its Provincial Science and Technology Center - La Union (PSTC-LU), in collaboration with the Local Government of Aringay, conducted an Awareness Seminar on current Good Manufacturing Practices (cGMP) with Emphasis to Food Safety, as part of the implementation of the Community-based project for Mango Vinegar of Maize Crafters de San Juan Agrarian Reform Cooperative.

Mango is abundant in San Juan West, Aringay. The Barangay undergoes and lots of mango post harvest during peak season. To reduce this, the cooperative is processing excess mango fruits into vinegar. Slowly becoming popular, mango vinegars were used for preservation of some foods and snacks. Processing mangoes into vinegar is a helpful strategy in reducing the said post-harvest losses.

There were 12 members of the Cooperative who actively participated in the said activity held last June 10, 2021 in San Juan West, Aringay, La Union.



Food Safety Expert and Project Assistant II of PSTC-LU, Ms. Princess P. Abuan, served as the Resource Person. She discussed the importance and benefits of cGMP to assure safe, wholesome and quality mango vinegar. The workshop on drafting production lay-out for mango processing was also a welcome activity that was enjoyed by the members.

Representative from the LGU Aringay, SBM Ramsey Pascual D. Mangaong, gave a short advice on Food Safety for the success of the Cooperative.

After the program, an awarding ceremony took place to show gratitude and recognition to the participation of the members of MCDSJARC and the resource speaker. SBM Mangaoang and Engr. Eiryz Clyde Angelique D. Orpilla, Project Assistant I of PSTC-LU awarded the certificate to all the participants.

At the end of the activity, the members sincerely thanked the DOST and LGU for providing them the assistance and knowledge on producing mango vinegar and to have additional income for the Cooperative.

PSU – DOST 1 Food Innovation Center: Bringing Innovation

by DOST-1 S&T Promotions, Jessa Kate G. Parrocha, Project Assistant II



The Regional Food Innovation Center (FIC) is established in each region of the country to serve as a hub for innovations, research and development (R&D), and support services for value-adding of fresh produce and development of processed foods. It is envisioned that through the Center, innovative technologies, relevant support services, technical expertise, necessary infrastructures, and facilities will be more accessible for micro, small, and medium enterprises (MSMEs) in the urban centers and countryside for a more effective technology application, technology transfer, and commercialization for sustained economic growth and productivity (FIC Generic Operational Manual, 2016).

The Pangasinan State University – Food Innovation Center (PSU-FIC) located in Bayambang Campus is among the FICs in Region 1. It houses equipment locally designed by the Department of Science and Technology (DOST) such as spray dryer, water retort machine, vacuum fryer, and freeze dryer. Serving as one-stop food research and development facility, the PSU-FIC provides local food processors opportunity to innovate on old products, produce new ones, or create new benefits to agricultural and fishery resources.

In an interview with Ms. Meryl A. Bernardino, Project Assistant II at PSU-FIC, she mentioned the R&D outputs of PSU-FIC. Among these are the technologies developed by the FIC which are the vacuum fried products such as squash, onion, mushroom, and okra. Also, the FIC developed the process and formulation of binagoongang bangus, tomato salsa and chili buro; Cabinet dried products include mango processed products such as dried mango, dried ube powder and mango roll;

indian mango products such as chutney, mango jam and mango vinegar were also processed by the FIC. Moreover, the technology of burong walang amoy was also developed in FIC. The Center also optimized the formulation for tupig, bukayo and bibingka which Professor Veronica C. Austria, Chairman of TLE Department Faculty Researcher at Pangasinan State University, was interviewed for in two radio programs Radio Agila and DZMQ. These were all funded by the DOST-1.

And just recently, Ms. Bernardino presented an important achievement— the terminal report on Candon Calamay and Ube Processing Project to the DOST 1 via Microsoft Teams where she showed the successful innovation of the project. From the usual shelf life of five (5) days, they were able to prolong it to up to 29 days through the use of hurdle technologies such as standardization of the formula of the Candon Calamay, retort processing, use of vacuum packaging, and addition of potassium sorbate at 0.1% as preservative. The researchers of the said project include Dr. Racquel C. Pambid, Dr. Wilma M. de Vera, Ms. Veronica C. Austria, and Ms. Meryl A. Bernardino and the research was funded by DOST-1 through its Grants-In-Aid program last CY 2020.

When asked why they chose to innovate the Candon Calamay, of all the products, Ms. Bernardino mentioned that native delicacies are integral part of the rich food culture of the Philippines. It is a popular food giveaway, and it generates income to the Calamay makers in Region 1 specifically Candon City in the province of Ilocos Sur.

VACUUM FRIED PRODUCTS



However, product improvement must be done involving the shelf life and packaging. The high-water content of Candon Calamay makes it a favorable environment for spoilage micro organisms, raising quality concerns. Also, its plastic packaging is permeable to oxygen. These factors may affect the income of MSMEs when they were unable to sell all their products within five days. This research, therefore, does not only help in the preservation of Filipino native delicacies but it also helps the local processors to enhance product quality and speed up production to improve their value chain activities thus reducing their costs and increasing their profit.

On one hand, ube as a root crop is also highly perishable. In order to preserve ube for longer period of time, it can be processed into powder and can be added as an ingredient to bread and rice cakes due to its vibrant purple color. Nutritious, shelf-stable, and highly acceptable processed products made from ube powder needs to be developed. Thus, FIC developed and standardized the process and formulation of making ube calamay and ube buyos using the rehydrated ube flour. This will increase utilization of ube powder as raw ingredient and help the processors in the mobilization of ube powder production. Offering new products in the market such as ube calamay and ube buyos may increase the potential income of local processors.



Havilah Food Products and Manang Rosa



Candon Calamay in Water Immersion Retort Processing

The product already passed the tests on food consumption and gained customers acceptability and is now recommended for deployment to the target beneficiaries which are the Candoy Calamay Processors of Ilocos Sur and Agoo Ube Processors of La Union.

Aside from product innovation, the PSU-FIC also offers academic support to students from any university on their research studies, technical assistance to MSMEs related to food processing and product shelf-life extension, provides training, extension, and licensing to adopters, and it also offers lease of equipment that are available in the FIC such as spray dryer, water retort machine, freeze drier, vacuum fryer, cabinet drier, band sealer and vacuum packaging machine.

Truly, the establishment of FIC in the region has helped a lot of MSMEs, students, and researchers, and the center looks forward to more R&D outputs that will benefit the community.

Food Product Development



To know more about the PSU-FIC, you may contact Dr. Raquel C. Pambid, FIC Head through the following:
email: psubcresearch@gmail.com | Contact Number: 09062234951

Two Bakeshops in Pangasinan adopt DOST-FNRI's E-Nutribun

by PSTC – PANGASINAN, Bernalyn P. Martinez, Project Assistant II

Two (2) bakeshops in Pangasinan adopt Department of Science and Technology-Food and Nutrition Research Institute's (DOST-FNRI) Enhanced Nutribun (E-Nutribun) through signing of a Technology Licensing Agreement (TLA) with FNRI.

The new adoptors are Mr. Luis O. Sebastian of Louis Roy Bakeshop in Mangataram and Mr. Benedicto Planas of Planas Bakeshop and Store in Sual, Pangasinan. Both adoptors were also beneficiaries under the Small Enterprises Technology Upgrading Program (SETUP) of DOST Region 1.



3-day Virtual Technology Transfer Training was conducted to the Batch 8 of Technology Adoptors



Actual demonstration of E-nutribun production

Said technology adoptors underwent the processes of technology adoption and submitted documents required by DOST-FNRI. Moreover, a virtual ocular inspection of their production area was conducted on April 20, 2021 and followed by a virtual Technology Transfer training on the production of E-Nutribun for the Batch 8 of technology adoptors via Zoom held on April 27, 29-30, 2021.

During the virtual training, DOST-FNRI discussed the modules on Food Safety, 5S and good manufacturing practices (GMP) and focused on the production of E-Nutribun and actual demonstration of the product.



DOST Provincial Science and Technology Center-Pangasinan will monitor the two bakeshops to ensure that their production on E-nutribun complies with DOST-FNRI standards and will continue to provide them with technical assistance.

Parties interested in adopting E-Nutribun may visit the nearest DOST Office in their province.



DOST I conducts 4-day On-site Food Safety Assessment to 12 Firms in Pangasinan

by PSTC – PANGASINAN, Bernalyn P. Martinez, Project Assistant II



LINGAYEN, PANGASINAN – To ensure the food safety compliance of the food processing firms, the Department of Science and Technology Regional Office I (DOST-I) through its Provincial Science and Technology Center in Pangasinan (PSTC-Pangasinan) conducted a four (4)-day on-site Food Safety Assessment to 12 firms in Pangasinan on June 15-18, 2021.

DOST I Food Safety Team headed by Mr. Decth-1180 P. Libunao together with Mr. Hero D. Galamgam, Engr. Arnold C. Santos, Ms. Jennifer C. Fernandez and Ms. Bernalyn P. Martinez assessed the sanitary condition, production facility and practices established by the food firms in compliance to current Good Manufacturing Practices (cGMP), Basic Food Hygiene, and Food Safety requirements based on the RA 10611 Food Safety Act of 2013 and Food and Drugs Administration (FDA) AO 2004-0153 Good Manufacturing Practices in Manufacturing, Packing, Repacking or Holding Foods.



Firms assessed were Alcala Noodles Processing Center (Alcala), Havillah Food Products (Urdaneta City), Li'l Hansam Tan Heritage and Novelty Food (Calasiao), Danglely Loving Mother's Association (Agno), Golden West Agriculture Cooperative (Bani), Planas Bakeshop and Store (Sual), Mang Ador's Food Products (Mangaldan), Rod's Jellycacies (Mangaldan), Santico Food Products (Mangaldan), Bonuan's Best (Dagupan City), Louis Roy Bakeshop (Mangatarem) and Bugallon Farmers Fisherfolks Producers Improvement Club (Bugallon).

Initial findings and recommendations were discussed after the assessment. The team will provide them final copy of the report that will serve as their guide in preparation for their application of License-to-Operate (LTO) from the FDA.

Food Safety Assessment is one of the Technical Assistance and Consultancy Services (TACS) provided by the DOST to food processing firms. Interested firms may visit the DOST offices in their province.



DOST 1 receives RxBox telemedicine devices for the region

by DOST 1 – Rx Box 1000 Project, **Carla Joyce Cajala**, Project Assistant II



SRS I Gael Myca A. Dacanay, and PA II Carla Joyce B. Cajala receive 40 units of RxBox device for Region 1.

The RxBox is an electronic diagnostic device in a box that includes a blood pressure monitor (sphygmomanometer), pulse oximeter, electrocardiogram, fetal heart monitor, maternal tocometer, and temperature sensor that can be used for diagnostic procedures and capable of capturing and sending patient information over a distance whenever the patient needs to be referred to a specialist. This is a diagnostic tool that will be of great benefit in this time of the pandemic, most especially, in aiding telemedicine.

The devices will undergo Clinical Acceptance Test (CAT) from June 11 to 21, 2021, to ensure the completeness, efficacy, and accuracy of the RxBox units.



More so, it will determine the readiness of the devices and enable familiarization with the modules, in preparation for the deployment to the different LGUs.

In Region 1, 44– Rural Health Units with birthing facilities were selected and assessed based on the criteria set by the Department of Health (DOH), Department of Science and Technology (DOST) and the University of the Philippines– National Telehealth Center (UP– NTHC). The units will be deployed for free as funded by DOST and DOH. The deployment and training schedules will be finalized after the successful conduct of CAT.

DOST 1 gets ready for the BIG ONE!

by DOST 1 – Rx Box 1000 Project, **Carla Joyce Cajala**, Project Assistant II



RSTL unit staff of DOST 1 duck, cover and hold upon the earthquake alert.

The Department of Science and Technology Regional Office 1 actively participates in the conduct of the 2nd Quarter Nationwide Simultaneous Earthquake Drill on June 10, 2021.

The pressing of the button which signals the “Duck, Cover and Hold” exercise highlighted the event. The staff from the different units and provincial offices, altogether, responded promptly upon the alert of an earthquake.

In line with this activity, the DOST 1 hosted a webinar entitled “Shake It Off: Be prepared in times of Earthquakes” through Microsoft Teams and Facebook Live, to further strengthen the campaign of the Disaster Risk Reduction and Management team on disaster preparedness.

Different speakers from the Philippine Institute of Volcanology and Seismology (PHIVOLCS), Occupational Safety and Health Center-Department of Labor and Employment (OSHC-DOLE), and Bureau of Fire Protection- La Union (BFP-LU) imparted their knowledge and skills towards resilience in times of earthquakes.

Mr. Jeffrey Perez of PHIVOLCS started the webinar with his discussion on earthquakes and on how the different infrastructures avoid the massive damage of the disaster.



Mr. Jeffrey S. Perez (PHIVOLCS) talks about Philippine hazards.

As for the workplace set up, Engr. Lawrence Blas of OSHC-DOLE emphasized the safety procedures at work and on how employees can secure themselves during emergency situations.

Considering fire as the 2nd hazard, Fire Inspector Anne Ramirez-Paltao of BFP-LU reiterated the ways on how to avoid, prevent, and deal with flames and fires.

It was indeed a very productive day of preparing and shedding awareness on how to be ready for the big one.



The DRRM unit of DOST 1 together with ARD for Field Operations (upper left), and Engr. Lawrence C. Blas (lower left) from the OSHC-DOLE.

Transforming Communities towards Sustainable Development

by DOST-1 CEST, Joanna Rose Angayen, Project Assistant II



Improving people's quality of life, especially those from marginalized and underserved communities is critical to achieve social improvement and sustainable growth. It is important for them to have the skills needed to advance in present economy and the freedom to live and work in safe and healthy environment.

The Department of Science and Technology Regional Office 1 (DOST-1), through the Community Empowerment through Science and Technology (CEST) Program organizes community developments in these marginalized areas by providing appropriate Science and Technology (S&T) interventions.

With the aim to empower the disaster resiliency of Dumalneg, Ilocos Norte, the Project *NaKaSaGa-Na (Naglililang ng Kahandaan sa Sakuna Gamit ang Napapanahong-teknolohiya)* was launched in the community through the provision of an Automated Weather Station (AWS) as part of the Disaster Risk Reduction Management (DRRM) or Climate Change Adaptation (CCA) intervention of the CEST Program. The CEST Unit in partnership with the DRRM Unit of the agency spearheaded the activity, conducting a training and demo-operation of the device to the DRRM Staff of the municipality. Mr. Raymond Ardee F. Soriano, DOST-1 alternate focal person for DRRM, demonstrated the operation of the AWS and facilitated the installation of the device on-site.

The installation of the AWS in the community will provide real-time data on rainfall, wind speed and direction, temperature, humidity and sunlight duration for informed decisions around weather monitoring and disaster mitigation.



Meanwhile, a coffee roaster machine was deployed in Barangay Licungan, Sugpon, Ilocos Sur with the efforts of the agency to uplift lives in the far-flung areas of the region. Training on the Operation of the machine was conducted to the members of Licungan Coffee Growers Association (LCGA), a CEST organized association.

The training focused on the installation and operation of the machine as well as demo-operation on the roasting process of coffee from Green Coffee Beans (GCB) to packaged ground coffee as the product output. Initial packaging materials and production equipment such as coffee pouch, automatic burr mill, impulse sealer and maintenance tools were also provided to the association for their start-up production.



Moreover, to gather updates on the present situation of coffee production in the barangay, an ocular visit to the coffee farms of the LCGA members was conducted in line with the provision of additional beans for planting.

Hauling of the machine amidst the mountainous terrain and unpredictable weather was made possible through the dedication and hard work of the locals led by Captain Delwin G. Agbuya and the members of the LCGA.



DOST-1, Ilocos Sur partners foster STI Culture

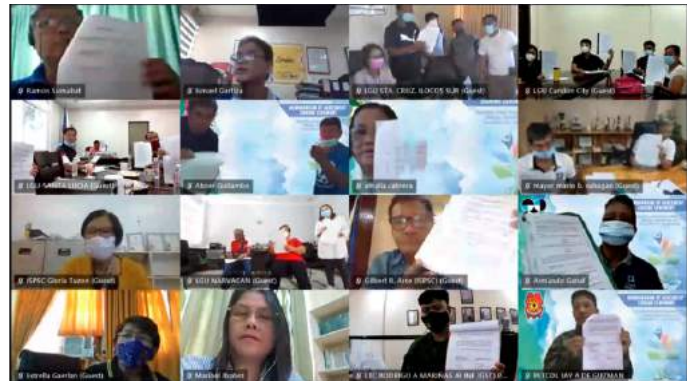
by DOST-1 CEST, John Oliver E. De Vera, Project Assistant III

To build full support and commitments among stakeholders towards achieving inclusive and sustainable peace, the Department of Science and Technology Regional Office 1 (DOST1) together with the Philippine Army, Philippine National Police (PNP) – Ilocos Sur Provincial Police Office (ISPPPO), Ilocos Sur Polytechnic State College (ISPSC), North Luzon Philippines State College (NLPSC), and 12 Local Government Units (LGUs) of Ilocos Sur, signed Memorandum of Agreement, Partnership, and Understanding (MOA, MOP, and MOU) on Community Empowerment through Science and Technology (CEST) program on May 25, 2021.

The signing ceremony creates an avenue for mutual understanding on the roles and responsibilities of all implementing parties towards the attainment of the program's objectives.



"We will continue to be a partner to all government units and agencies in bringing the different programs of the government in our communities especially in conflict affected areas" said LTC. Rodrigo A. Mariñas Jr., Commanding Officer, 81st Infantry Battalion, 7th Infantry Division, Philippine Army. "We welcome the initiative of DOST and we are honored to be partner in bringing the CEST program to our communities in the province, rest assured that we will always be there to support all your various undertakings and we will be looking forward to be working in attaining success in the implementation of the program," he added.



Convergence! Stakeholders signed MOA for CEST implementation in Ilocos Sur towards ending local armed conflicts.

During the ceremony, Dr. Armando Q. Ganal, DOST-1 Regional Director, delivered the rationale of the activity highlighting the milestones of the CEST program in Region 1. He further emphasized that the agency aims to bring science, technology and innovation (STI) to our partner LGUs in the realms of health and nutrition, human resource development, environmental protection and conservation, livelihood, and Disaster Risk Reduction and Management and Climate Change Adaptation (DRRM/CCA) which are important in the community.



Meanwhile, Dr. Gilbert R. Arce, ISPSC President, assured the commitment and support for the success of the undertakings. He further conveyed that the project would provide an opportunity to the college to prove its worth not only as purveyor of quality education but as a partner in the development of the communities. In addition, Dr. Elizabeth M. Gacusana, NLPSC President, voiced the college's commitment to undertake extension services and assist the different government instrumentalities and agencies in the project as it promotes unity, national reconciliation, peace, and economic development.

As stipulated in the MOA/MOP/MOU, DOST-1 will deliver science and technology (S&T)-based interventions employing the CEST program while the partner SUCs will provide additional funds and technical assistance needed in the implementation aligned with program's thrusts and operations through their research and extension services. The Philippine Army and Philippine National Police – ISPPPO commit to assist throughout the implementation of the project which include, but not limited to, providing security and transportation in geographically isolated and depressed areas. All these commitments are geared towards bringing STI and sustaining the development efforts of both national agencies and LGUs to these communities affected by armed conflicts.

This year, DOST1 – Provincial Science and Technology Center in Ilocos Sur will spearhead the implementation of the CEST project entitled, “Engaging Local Communities with Science, Technology and Innovation for Development” that will benefit 39 beneficiary barangays from 12 LGUs of the second district of Ilocos Sur namely:

Narvacan, Cervantes, Sta. Lucia, Sta. Cruz, Nagbukel, Candon City, Suyo, Sta. Maria, Salcedo, Galimuyod, Burgos, and Quirino with a total budget allocation of PHP 10.5 million.

The project aims to uplift the socio-economic condition of the people in the communities affected by local armed conflicts providing them interventions in Livelihood/Economic Enterprise Development, Human Resource Development, Health and Nutrition, Environmental Protection and Conservation, and DRRM/CCA which will further discourage engagement to terrorism activities in the countryside.

Collectively, all the parties embark on ending insurgency problems and create economic benefits to the communities and municipalities covered by the program. The MOA signing ceremony was attended by the DOST-1 heads and CEST core group, mayors and barangay captains of the 12 LGUs and 39 barangays, presidents of SUCs, heads of 81stIB7ID, Philippine Army and ISPPPO together with their witnesses.

DOST-1, DTI-Pangasinan spearhead food safety and cGMP webinar for MSMEs in Pangasinan

by DOST 1 – Regional Standards and Testing Laboratory, **Marinique A. Guerrero**, Science Research Specialist I



CURRENT GOOD MANUFACTURING PRACTICES WEBINAR

MAY 12, 2021, 01:00-05:00 PM

Via Zoom



San Fernando City, La Union – The Department of Science and Technology Region I (DOST-1) leads the discussion of food safety and current good manufacturing practices (cGMP) facilitated by the Department of Trade and Industry Pangasinan (DTI-Pangasinan) through a webinar participated by 32 micro, small, and medium enterprise (MSME) food firms in the province of Pangasinan on May 12, 2021.

OIC-Provincial Director of DTI-Pangasinan Natalia Basto-Dalaten shared her welcome remarks and encouraged the participants to apply their learnings during the presentation and discussion.

Food safety and cGMP have a big role on the preparation for Food and Drug Administration License-to-Operate (FDA-LTO) application of a certain food firm. This is in compliance to RA 10611 Food Safety Act of 2013. Also, these are important topics for everyone's health and wellness of both the producers and consumers.



Mr. Hero D. Galamgam, Science Research Specialist 1 of the DOST-1 Regional Standards and Testing Laboratory imparts his knowledge as a microbiologist on the techniques on how to control and eliminate hazards to produce safe and quality food for human consumption. "The event aims to enhance participants' knowledge in food safety and good manufacturing," he stated.

Majority sector/industry of the participants are from the Food Manufacturing sector such as fish processing, fruit juice manufacturing, baked food products and cacao farming. Participants were from business for frozen products, vinegar processing and distributors. All of which comprises with services and food products in Pangasinan.

The participants are able to familiarize different food hazards that may contaminate the food they produce. Basic plant designs and layout, as well as hygiene and plant sanitation are discussed to be able to reorganize their on-going working process and be more compliant with the set standards in producing a clean, safe and wholesome food for the Pangasinense.

"Health is wealth" is a good thing to start and a proper phrase to remember to engage and participate in such events as this, and most importantly to apply it in not only on the food firm but on our day-to-day living. A safe food is definitely a safe community.

For more information, please contact us at 0929-197-8906.
To be updated on the latest happenings, please follow our Facebook page at DOST-1 RSTL.

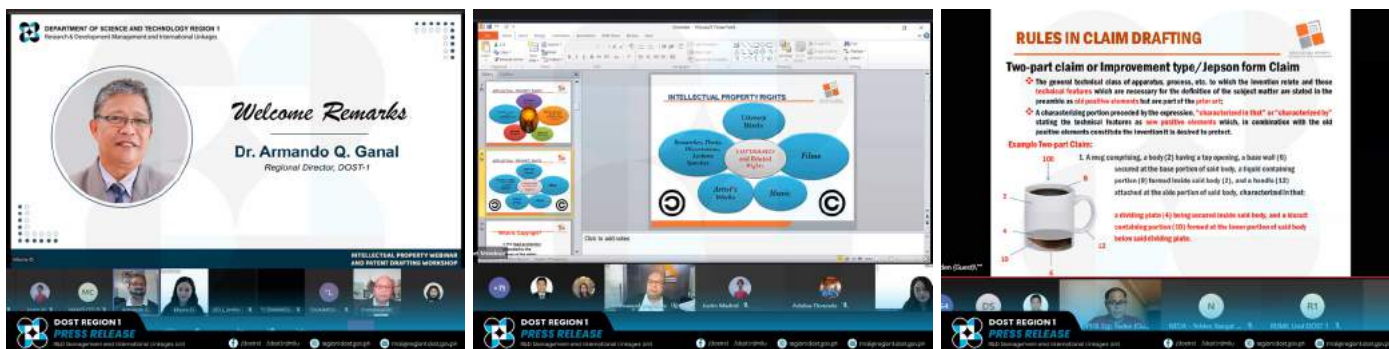
76 Region 1 researchers, inventors acquire IP knowledge, Patent drafting skill

by R&D and International Linkages Program Management Center, Engr. Maura Andrea A. Ortega, Project Assistant II



The Department of Science and Technology Region 1 (DOST-1) organized a free Intellectual Property (IP) webinar and Patent drafting workshop on April 28-30, 2021 via Microsoft Teams to assist Region 1 inventors and researchers in protecting their creations.

The Research and Development Management and International Linkages Unit (RDMILU) of DOST-1 invited Engr. Emmanuel M. Mendoza and Engr. Eric C. Paden who are Intellectual Property Rights (IPR) specialists from the Intellectual Property Office of the Philippines (IPOPHL). They covered an array of topics in IP and patents.



"Ideas and innovations have become the most important resource replacing land, energy and raw materials," a powerful quote from The Economist was shared by Engr. Mendoza as he kicked off his lecture on the overview on IPOPHL and IP system. Wasteful investment in research and development and marketing can be avoided through IP protection, he stressed. Towards the end of his discussion, participants were able to differentiate copyright, trademark, patent, utility model, and industrial design.

As explained by Engr. Paden, a technical solution of a problem in any field of human activity that is new or novel, involves an inventive step, and industrially applicable is a patentable invention. An invention is not new if it forms part of a prior art. Everything made available to the public is considered a prior art. Hence, inventors conduct patent search. Engr. Paden demonstrated test of novelty and test of inventive step. He also shared credible websites to conduct patent search. "Conducting patent search before research and development will save us from re-inventing the wheel," he said.

Engr. Paden also elaborated on the principles of claim drafting, while Engr. Mendoza discussed specification drafting and rules on patent drawings. The lecture was followed by a workshop on claim drafting and specification drafting.

Engr. Mendoza shared the things to know in dealing with examiner's action. Moreover, Engr. Halen P. Gamisera, IP Field Operations Specialist of IPOPHL in Region 1, explained the system of online registration, eDoc, and eCorr which is essential to inventors and researchers who wish to apply for patents.

Intellectual Property is critical in fostering innovation. In the absence of IP protection, businesses and individuals would not fully exploit their inventions. Access to information and tools to protect the most valuable assets of the Filipino scientific community were given through this free webinar-workshop.

The capacity building activity benefited 76 researchers and inventors in Region 1. Participants were mostly from the academe such as Don Mariano Marcos Memorial State University-Mid La Union Campus (DMMMSU-MLUC), Northern Luzon Adventist College (NLAC), and Lorma Colleges. Moreover, staff from NGAs, Region 1 consortia, and DOST-1 with research and development projects also participated.

To know more about the IP system in the country, visit www.ipophil.gov.ph. For concerns regarding the activity, send a message to mail@region1.dost.gov.ph or rdmilu@region1.dost.gov.ph.

DOST-TAPI, DOST-1 to introduce assistance programs for commercialization of inventions in Region 1

by R&D and International Linkages Program Management Center, Engr. Maura Andrea A. Ortega, Project Assistant II

In support of the commercialization of inventions, the Technology Application and Promotion Institute (DOST-TAPI) in partnership with the Department of Science and Technology Regional Office No. 1 (DOST-1) will introduce assistance programs for Region 1 inventors, researchers, and Technology Business Incubators (TBI) clients.

Dubbed as "TeknoLokal para Makabagong Bayani", the technology pitching sessions aim to spark the interest of applicant-Overseas Filipino Workers (OFWs) in the adoption of DOST-developed technologies for their proposed technology-based venture which will then be funded under the Innovations for Filipinos Working Distantly from the Philippines (iFWD Ph) Program.

and (2) Landbank-TAPI Innovation and Technology (I-Tech) Lending Program which supports the commercial production of patented Filipino inventions with active intellectual property (IP) rights by providing loan assistance at lower interest rates in partnership with the Landbank of the Philippines. The coverage of assistance includes acquisition of fixed assets, capital expenditures, production capital, and working capital.

These programs of assistance are part of the government's efforts and commitment to help inventors commercialize their inventions. Interested inventors, researchers, and TIB clients in the region can register through this link: bit.ly/IBEDITECH_registration until April 20, 2021 only.

For inquiries, send a message to mail@region1.dost.gov.ph or rdmilu@region1.dost.gov.ph

DOST-TAPI DOST-1

invite all
INVENTORS and RESEARCHERS
in Region 1 to the

Invention-Based Enterprise Development Program - Component II (IBED - II)

and

Landbank-TAPI Innovation & Technology (I-Tech) Lending Program

ORIENTATION

27 APRIL 2021
1PM via ZOOM

Scan Me

REGISTER HERE:
bit.ly/IBEDITECH_registration
* until April 20, 2021 only

[f /dostro1 /dost1.rdmilu](#) [region1.dost.gov.ph](#) [mail@region1.dost.gov.ph](#)

DOST-1 holds Virtual Invent School Program for Students in Region I

by DOST 1 – S&T Promotions, Thea Mitzi G. So, Project Assistant I

DEPARTMENT OF SCIENCE AND TECHNOLOGY
TECHNOLOGY APPLICATION AND PROMOTION INSTITUTE
In collaboration with DOST Regional Office No. 1

INVENT SCHOOL
2021
INVENT SCHOOL PROGRAM
WEBINAR SERIES

DOST Regional Office No. 1
04 May 2021 via Zoom

OPENING REMARKS

DR. ARMANDO Q. GANAL
Regional Director- DOST1

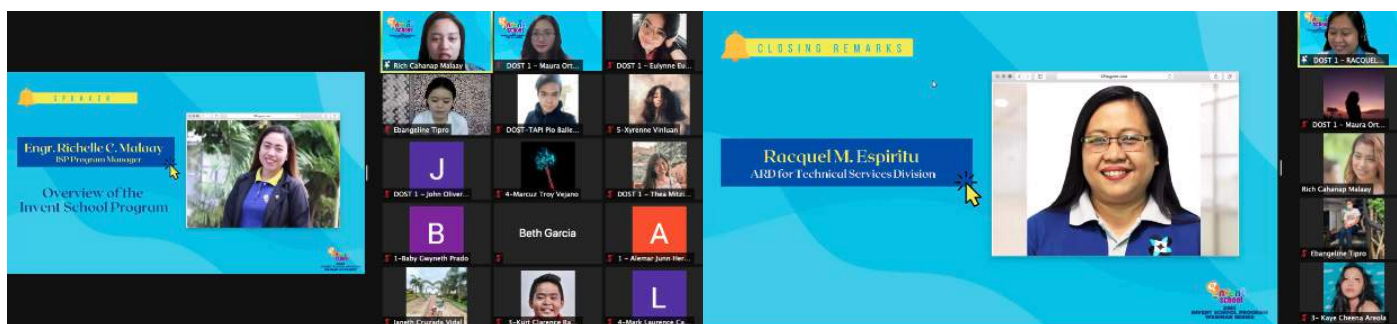
The Department of Science and Technology Regional Office 1 (DOST-1), through its Research and Development Management and International Linkages Unit (RDMILU), and in collaboration with the DOST Technology Application and Promotion Institute (DOST – TAPI) conducted series of virtual Invent School Program (ISP) this month of May 2021 via zoom platform.

A total of 70 science-inclined students, comprised of 12 elementary pupils, 26 high school and 32 college students, from private and public schools in the region, participated in the said ISP webinars.

The ISP is a webinar-workshop for elementary, high school and college students to stimulate their interests for creativity and inventiveness.

The program provides an opportunity for students to awaken their minds in the field of inventing and entrepreneurship. It also creates awareness on Intellectual Property Rights (IPR) and Protection.

Dr. Armando Q. Ganai, DOST 1 Regional Director, welcomed the participants and expressed his gratitude to DOST-TAPI for the continued support to foster science, technology, and innovation (STI) in Region 1 with the budding researchers and inventors despite the ongoing pandemic. He reiterated importance of innovation and encouraged students to maximize their participation and grab the opportunity to learn from the experts.



Engr. Richelle C. Malaay, DOST-TAPI ISP Program Manager, presented the overview and objectives to introduce the program to the participants. Interactive games and workshops were conducted to make the webinar engaging and participatory. The activities raised creative interactions among participants to think possible innovations.

Ms. Mechelle D. Balboa, Senior Science Research Specialist (SSRS), and Ms. Anna Liza B. Saet, Science Research Specialist II (SRS II), both from DOST-TAPI, facilitated the half-day webinar on May 4 for elementary pupils focusing on creative thinking and invention development. Interactive activities related to children's context were conducted for fun and easy learning of the topics discussed.

On the other hand, experts from DOST-TAPI, namely, Engr. Janeth C. Vidal, SSRS, Mr. Roberto R. Verzosa, SSRS, Engr. Elizabeth I. Garcia, SSRS, and Ms. Glenda C. Rima, SRS II, facilitated the webinar for high school students last May 5-6 focusing on creative, perceptive, and inventive thinking, ideation tools and techniques, invention development, IPR and selling the invention.

The webinar for college students focused on developing creative thinking, creative problem solving, invention development, prototyping, IPR, selling the invention, prior search, and basic patent drafting. DOST-TAPI specialists led by Engr. Garcia, Engr. Vidal, Ms. Saet, Mr. Clifford Glenn D. Malaay, SRS II, and Mr. Caesar Angelito E. Arceo, Supervising Science Research Specialist facilitated the ISP for college students on May 11-12.

The program ended with an awarding ceremony and closing remarks by Ms. Racquel M. Espiritu, Assistant Regional Director for Technical Services of DOST-1. In her closing remarks, she stressed that the ISP was a great venue for learning and having fun. The program was also a starting ground to enhance creativity and inventiveness for young Filipino inventors.

Students in Region 1 actively participated in this webinar-workshop and showcased their skills and capabilities that will help them become successful inventors to power the future and change our tomorrow.

Groundbreaking Ceremony of the Metals and Engineering Innovation Center (MEIC) Phase II in DMMMSU Mid La Union Campus

by DOST 1 - S&T Promotions, Jessa Kate G. Parrocha, Project Assistant II

With the aim to promote innovation culture and to strengthen capacity and capability in the field of metalworking to enhance the competitive advantage of the metals and engineering (M&E) industries, the Department of Science and Technology Regional Office 1 (DOST -1) and DOST's Metals Industry Research and Development Center (DOST-MIRDC) once again partner with DMMMSU-Mid La Union Campus in the establishment of Metals and Engineering Innovation Center (MEIC) Phase II in Region 1.





The MEIC has four-fold functions which are: to support the metals and engineering research and development of the DOST which promotes creativity and innovation, to help in prototyping machineries, to support small scale production, and to serve as training ground for the state university students and metals and engineering micro, small, and medium enterprises (MSMEs) in the locality.

For the 1st phase of the MEIC Project, the DMMMSU - Mid La Union Campus has put up a building worth P3.0 Million while DOST Regional Office I provided P1.0 Million worth of equipment from its Grants-in-Aid Program. Initially, the facility was equipped with a Digital Metal Hardness Testing, Digital Heat Treatment, and TIG and MIG Welding Machines. The facility was then inaugurated in April 2017 with the presence of DOST Secretary Fortunato T. dela Peña.

And just recently, the project once again hit another milestone, as the groundbreaking ceremony of the 2nd phase of MEIC took place. The ceremony was attended by Dr. Jaime I. Manuel, Jr., DMMMSU President, Dr. Victorio C. Palabay, Dean of College of Technology, and other DMMMSU officials, Regional Director Armando Q. Ganal and Assistant Regional Director for Field Operations Dr. Ismael D. Gurtiza of DOST - 1, and Cong. Pablo C. Ortega of the 1st District of La Union represented by Hon. Ramon Torres. Governor Francisco Emmanuel R. Ortega III also extended his deepest appreciation and excitement to this project through a video message. According to him, this project will surely contribute to the socio-economic development of the province.



The MEIC Phase II facility will house the following equipment and machineries: TIG Welding Machine – Inverter Type, Hydraulic Press Brake, Hydraulic Shearing Machine, Power Hacksaw, Electric Host (2T), Sheet Metal Roller, Portable Plasma Cutter with Air Compressor, Workstation with CAD/CAE software, and various electric hand tools. These equipment would enhance classroom and field-learning opportunities for students across the campus, encourage interdisciplinary scholarly research, publication, intellectual property and be a resource for the university as it evolves its role in innovation, creativity, entrepreneurship, technology commercialization and regional technological and economic development. The establishment of the 2nd phase of the MEIC Project will also serve as venues for the strong industry-academe collaboration in the conduct of research and development of new products to be offered in existing or new markets.

DOST 1 conducts Orientation on Safe Spaces Act

by DOST-1 Gender and Development, Maureen Heidi L. Perez, Project Assistant II



The Department of Science and Technology Region 1 (DOST 1), through its Gender and Development Program, conducted an Orientation on Safe Spaces Act for its 80 personnel on May 3, 2021 via Microsoft Teams platform.

The Safe Spaces Act or the Republic Act 11313, dubbed as “Bawal Bastos Law” is the policy of the State to value the dignity of every human person and guarantee full respect for human rights. It is likewise the policy of the State to recognize the role of women in nation-building and ensure the fundamental equality before the law of women and men. The State also recognizes that both men and women must have equality, security and safety not only in private,

but also on the streets, public spaces, online, workplaces and educational and training institutions.

DOST 1 GAD Focal Point System (GFPS) organized this webinar to provide measures in the prevention of any gender-based sexual harassment that may occur in the workplace. This also intends to strengthen the internal mechanism through the Committee on Decorum and Investigation (CODI) to investigate/address sexual harassment complaints.

Atty. Angely P. Medalle-Alviar, Attorney V of the Legal Division and Officer-in-Charge of the Administrative and Legal Services of the DOST, discussed the salient features of the Safe Spaces Act. Atty. Alviar reiterated that “Everyone, both men and women, young and adult, are protected by this law. RA 11313 has a more comprehensive coverage than the Anti-Sexual Harassment Law. Any act, sexual in nature, that has the tendency to offend the feelings of the recipient can be held punishable under this law.”

She also added that “The law is primarily created to equalize the disparity in the social norms and culture of our country.”

Moreover, Atty. Charisma M. Agbayani, Attorney V of the Legal Services Division of Civil Service Commission (CSC) Region 1 shared CSC’s implementation of CODI.

CODI is the investigating body of all sexual harassment cases or complaints against public officials and employees of an agency. On the investigation of the complaint, CODI shall observe closely pertinent provisions of the CSC’s 2017 Rules on Administrative Cases in the Civil Service (RACCS).



The activity served as an information and warning to all since this law is already in place, and a reminder that the acts, however innocent it may be to you, can already be offensive to others.

DOST 1 orients new Staff on Basic GAD Concepts and Office Policies

by DOST-1 Gender and Development, Maureen Heidi L. Perez, Project Assistant II



New DOST 1 staff who participated in the Orientation on Basic GAD Concepts and Office Policies last June 10, 2021 via MS Teams platform.

The Department of Science and Technology Region 1 (DOST 1), through its Gender and Development Program and Human Resource Management Unit, orients new DOST 1 staff on Basic Gender and Development (GAD) Concepts and Office Policies conducted last June 10, 2021 at 1:30 PM – 5:00 PM via MS Teams platform.

Ms. Angel Lyn O. Leandado, GAD Focal Point System (GFPS) Member, and Ms. Maureen Heidi L. Perez, GFPS Secretariat, served as Resource Persons on the Orientation of Basic GAD Concepts specifically on GAD Mandates and DOST 1 GAD Policies, Sex and Gender Differentiation, Sex and Gender Roles, Gender Roles Socialization and Gender Division of Labor. On the other hand, Atty. Jasmin C. Bañez, Chief Administrative Officer and Acting Human Resource Management Officer, discussed DOST 1's existing Office Policies.

DOST 1 Regional Director Armando Q. Ganal encouraged the participants on his Opening Remarks, *"I encourage all of you to partake in the discussions because at the end of the day, it will be us who will benefit from it. Let us all listen and learn*

from our colleagues, who will serve as our Resource Persons, in attaining gender equality and a gender responsive working environment."

Assistant Regional Director for Finance and Administrative Services, Atty. Jasmin C. Bañez said that, "As part of the DOST, we should demonstrate effort in DOST 1's core values which are as follows, Innovation, Excellence, Leadership, Integrity, Teamwork and Empowerment, as well as deep sense of nationalism."

The activity served as a venue to promote and advocate gender and development concepts to new staff and prepare them in their tasks of fostering gender-related activities and awareness in the workplace.

A total of 26 new staff, 11 males and 15 females, were oriented with the said topics. The orientation got an overall perception evaluation score of 4.76 and is equivalent to an excellent rating.

DOST 1 GFPS conducts self-assessment on CEST Program using HGDG Tool

by DOST-1 Gender and Development, Maureen Heidi L. Perez, Project Assistant II



Face-to-Face Discussion of GFPS Members with the CEST Program Implementers at the Technical Services Office. In the photos were: (from front left) Ms. Angel Lyn O Leandado, Ms. Joanna Rose P. Angayen, Ms. Maureen Heidi L. Perez, Mr. John Oliver E. De Vera, and ARD Racquel M. Espiritu.

The DOST 1 GAD Focal Point System – Technical Working Group (GFPS-TWG) convened with CEST Program Implementers and conducted a focus group discussion and Harmonized Gender and Development Guidelines (HGDG) workshop on Community Empowerment through Science and Technology (CEST) Operations Manual on June 22, 2021 via Microsoft Teams and face-to-face meeting. The activity was presided by Ms. Racquel M. Espiritu, Assistant Regional Director for Technical Services and GFPS-TWG Head. Using the Project Implementation and Management, and Monitoring and Evaluation (PIMME) Checklist, the participants assessed the CEST Operations Manual and garnered a score of 14.25 which means that the program is gender-sensitive. The PIMME Checklist or the HGDG Box 16 and 17, is used to determine the extent that the targeted HGDG score is attained based on the program/project's annual accomplishment report.

The score indicates the level of gender-responsiveness of the program/project. One of the issues identified was the traditional assignments of works for both sexes that is prevalent to the beneficiary communities where conduct of gender-related capacity buildings is recommended to better appreciate sex and gender roles of every beneficiary. It must be noted that in identifying and addressing gender issues, project implementers must be sensitive to the socioeconomic variations to both men and women beneficiaries. The activity was participated by 13, composed of 7 females and 6 males, GFPS Members, Provincial S&T Center (PSTC) Alternates/Representatives and CEST Program Implementers.



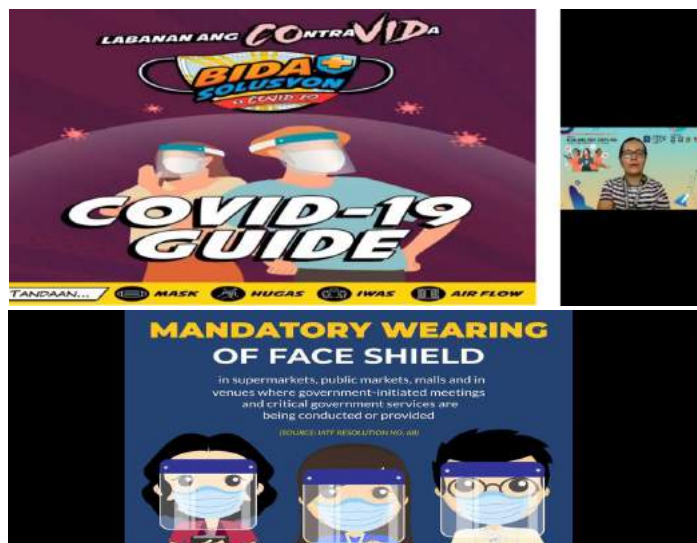
DALUMAT conducts a Webinar on Health Protocols Amid COVID-19 Pandemic

by DOST-1 Scholarship Unit, Angel Christine Lucero, RA 7687 Scholar

"BIDA ANG MAY DISIPLINA: A Guide on Health Protocol Amid Covid-19 Pandemic", a webinar spearheaded by *Dakilang mga Anak ng La Union, sa Matematika, Agham at Teknolohiya (DALUMAT)*, in cooperation with Department of Health - City Health District 1 and Philippine National Police Region 1 was successfully conducted last April 23, 2021.

Administered via Microsoft Teams and streamed on DOST Region 1 Facebook page, DALUMAT invited Dr. Magnolia I. Brabante (Medical Officer IV, DOH CHD 1), Ms. Cinderella Q. Capinpin (Police Staff Sergeant, PNP RO1), Ms. Dwihrose M. Mertola (Patrolwoman, PNP RO1) and Ms. Mhardy D. Lozano (Patrolwoman, PNP RO1) to be webinar's resource speakers.

The said webinar aimed to educate the youth about the importance of abiding government policies in battling the COVID-19 disease and the existing health guidelines and the dangers of not following it.



Dr. Brabante, the first resource speaker talked about the COVID 19 guide. In her talk, she emphasized various ways to avoid getting infected with COVID-19, when to identify yourself as a close contact and when to get tested, the differences between quarantine and isolation then RT-PCR test and Antigen test, what to do when you are under home quarantine or isolation, and how to attend to mild to moderate COVID-19 symptoms at home. She also mentioned the severe symptoms that are in need of immediate attention, some of the ways to keep the body and mind healthy amidst pandemic, and the 3C's (Crowded places, Close-contact setting, Confined and enclosed spaces) where COVID-19 spreads more easily. Dr. Brabante also answered questions regarding the COVID-19 vaccines.

Meanwhile, Ms. Capinpin, Ms. Mertola and Ms. Lozano discussed about Coronavirus Awareness Response & Empowerment (CARE) which aims to deliver information about COVID-19, help minimize the risk of infection to people and the community, correct the widespread "Fake News" regarding COVID-19, and to keep every family and community safe against the risk of the said virus. Like Dr. Brabante, questions raised from the participants were also entertained.

After the different talks, DALUMAT awarded the speakers with a certificate of recognition. Participants who attended the webinar thru the Microsoft Teams and Facebook Live will also be given a certificate of participation.



A Mission for a Clearer Vision

by DOST-1 Scholarship Unit, Erjhon Estrada and Jubelyn Soriano, RA 7687 Scholars



In hopes of lending a hand to our beloved lolos and lolas who suffer from poor vision, the Department of Science and Technology – Scholars' Intercampus Association of Pangasinan (DOST – SICAP) led by Mr. Mark Glendale T. Valenzuela, President of Pangasinan II, and Mr. Francis Ryan A. Ramos, President of Pangasinan I, initiated the preliminary actions needed to fully implement the Project YACAP (Youth Advocacy in Caring the Aged and PWDs). This is a region-wide project, made possible with the coordination and collaboration of DOST – Science Education Institute (SEI) and Patriot Scholars of Region I. The project aims to provide corrective eyeglasses and grocery items to the selected senior citizens in Pangasinan.

An initial action of eye check-up of the first five (5) beneficiaries was conducted on May 3, 2021 at Muñoz Optical Clinic, located at Bayambang, Pangasinan. On May 10, Lolo Benito (67 y/o), Lolo Rodrigo (66 y/o), Lolo Leopoldo (70 y/o), Lola Teodora (84 y/o) and Lola Flordelisa (76 y/o), all residing at Brgy. Batancaoa, Urbiztondo, Pangasinan, have received their eyeglasses at the said clinic which they were thankful for.

Meanwhile, the grocery items to be given to the beneficiaries as part of the project will be funded by DOST-SEI. The distribution of the said items was last June 5, 2021.



The funding of the eyeglasses as well as the eye check-ups came from the Income Generating Project (IGP) which are the YACAP Shirts and PATRIOT Shirts initiated by DOST-SICAP.

For more lolos and lolas to enjoy seeing the world clearly, YACAP and SICAP shirts are sold for only P 250.00 each which can be ordered by filling out this form: bit.ly/PatriotIskolarIGPShirt or thru shopee : bit.ly/ShopeePatriotShirtbyDOSTSICAP

DOST-SICAP extends its gratitude to the following personnel for their special participation in making the project possible:

Dra. Marivic Muñoz Ferrer of Muñoz Optical Clinic for her service in conducting the eye check-up and for orienting and teaching the elders on how to properly use and clean their new eyeglasses; and

Sangguniang Kabataan Chairperson, Stephanie C. Valerio, for the invaluable time and effort she shared in choosing the beneficiaries in Brgy. Batancaoa, for accompanying them in their eye-check up and releasing of eyeglasses.

165 DOST Scholar-Graduates Get DepEd Teaching Positions

by DOST-1 Scholarship Unit, Jayce M. Andres, Project Assistant III



About 165 scholar-graduates of the Department of Science and Technology – Science Education Institute (DOST-SEI) has been allocated with teaching positions by the Department of Education (DepEd) Region I for school year 2021-2022.

118 RA 7687 scholar-graduates will be deployed in public Junior High School with a teaching position of Teacher I, while 47 RA 10612 scholar-graduates will be given a Special Science Teacher I position and will be deployed in public Senior High Schools in the Region.

DOST-SEI has recently approved the list of scholar-graduates under the Junior Level Science Scholarship (JLSS) programs (RA 10612 and RA 7687) to be scheduled for deployment.

The JLSS Program is one of the undergraduate scholarship programs offered by the DOST-SEI for third year college students who are currently enrolled in priority science and technology courses. There are three (3) types of scholarship under this program, the RA 7687 also known as the “Science and Technology Scholarship Act of 1994” which provides scholarships to talented and deserving students whose families’ socio-economic status does not exceed the set cut-off values of certain indicators; the MERIT scholarship or the NSTA Scholarship under RA 2067 is awarded to students with high aptitude in science and mathematics and are willing to pursue careers in the field of science and technology; and lastly, the RA 10612 or

the “Fast-Tracked Science and Technology Scholarship Act of 2013” which aims to strengthen the country’s science and technology education by fast-tracking graduates in the sciences, mathematics and engineering who shall teach science and mathematics in secondary schools throughout the country.

New graduates of the said program will be given priority for job placement to teach in DepEd high schools specifically in their home province. For RA 7687 scholar-graduates will be accommodated as Teacher I in Junior High School given that they must have passed the Licensure Examination for Teachers (LET) while the RA 10612 scholar-graduates will be given a provisional status as a Special Science Teacher I position in Senior High Schools, under the condition that they must pass the LET within the first five (5) years if they opt to continue teaching in DepEd after fulfilling their service obligation.

“With this JLSS Scholarship Program it will address the shortage of quality teachers in Science, Technology, Engineering and Mathematics (STEM) subjects in secondary schools and we believe this strategy will not only help us produce quality teachers right away but will also ensure dynamic and effective science and mathematics teaching in many schools in the country”, said Dr. Josette Biyo, Director of DOST-SEI.

ANNOUNCEMENTS

PSHSS announces start of application period for incoming grade 7 students for AY 2022–2023



Premier science high school education begins
at DOST-Philippine Science High School.

For incoming Grade 7 scholars in School Year 2022-2023

Apply in the safety of
your own home

APPLY ONLINE
through the website
<https://nce.pshs.edu.ph/>

Deadline for submission of application

22 October 2021	29 October 2021
PRIVATE SCHOOLS	PUBLIC SCHOOLS
Applicant who was in a private school in Grade 5	Applicant who was in a public school in Grade 5
Application Fee: PHP 300.00	Application Fee: FREE

For inquiries, please contact us at: (02) 8-9397747 | admissions@pshs.edu.ph

RACE
Requirements for Admission, Criteria, and Evaluation

The Philippine Science High School System (PSHSS) announces the application period for incoming grade 7 students in the Philippine Science High School for AY 2022–2023 which will start in August 2 and will end on October 29, 2021.

To prevent the spread of the COVID-19 virus, instead of the usual National Competitive Examination (NCE) taken by aspiring students of Philippine Science High School, the admissions now will be through the PSHS Requirement for Admission, Criteria and Evaluation (RACE).

The application can be submitted online at nce.pshs.edu.ph or in person at any PSHS Campus, Department of Science and Technology Regional Offices, and Provincial Science and Technology Centers in their area.

To know more about the PSHS–RACE, the eligibility requirements and credentials, you may visit the PSHSS Website at nce.pshs.edu.ph/

Congratulations to the 2020 Junior Level Science Scholarship (JLSS) Qualifiers in Region 1



DEPARTMENT OF SCIENCE AND TECHNOLOGY
REGIONAL OFFICE I
SCHOLARSHIP UNIT

2020 JUNIOR LEVEL SCIENCE SCHOLARSHIP (JLSS)

QUALIFIERS IN REGION 1

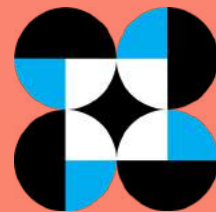
C O N G R A T U L A T I O N S

Names mark with:
■ Qualifiers with lacking requirements.
■ Potential Qualifiers - are still under consideration, pending completion of requirements and subject to further evaluation.

Each qualifier shall receive a notice of award from the DOST Regional Office I stating the schedule of the Orientation on the Scholarship Policies and Signing of the Scholarship Agreement. Those potential qualifiers will also be sent a notice indicating their lacking documents which must be submitted on or before August 31, 2021.

You may check the full list thru this link:
sei.dost.gov.ph/images/downloads2020jlssQuali.pdf

SERVICES:



TECHNOLOGY TRANSFER

- ▶ Small Enterprise Technology Upgrading Program (SETUP)
- ▶ Community-based Projects
- ▶ Community Empowerment through Science and Technology (CEST)

S&T SERVICES

- ▶ Testing and Calibration
- ▶ Packaging and Labeling
- ▶ Consultancy Services
- ▶ Technology Trainings
- ▶ Technology Fora

OTHER S&T SERVICES

- ▶ S&T Scholarship Program
- ▶ S&T Promotion and Information Services
- ▶ S&T Learning Resource Center



SCAN ME



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