



Villar underscores the role of R&D



(left) Senator Villar keynotes the 14th Agriculture and Fisheries Technology Forum and Product Exhibition (NTF) on August 31 at SM Megamall. During the ribbon-cutting ceremony (right), she is joined by (L-R) BAR-TCD Head Anthony Obligado, PCC Executive Director Arnel del Bano, DA Asst. Sec. Roldan Gorgonio, BAR Director Nicomedes Eleazar, and BAR Asst. Dir. Digna Sandoval. PHOTOS: RDELACRUZ

Government should make sure that research results reach and benefit small farmers and fisherfolk. This is the strong call of Senator Cynthia Villar during the opening of the 14th Agriculture and Fisheries Technology Forum and Product Exhibition (NTF) on 30 August 2018 at SM Megamall, wherein she was the guest of honor.

She commended the Bureau of Agricultural Research (BAR) for choosing “agriprenueurship” as its

theme this year and hoped that as the lead coordinating agency for research and development (R&D), the bureau will really ensure that the outputs and results of research will reach the intended beneficiaries.

“Bakit ka magre-research kung hindi mo mai-apply sa buhay ng ating mahihirap na Pilipinong magsasaka at mangingisda. Di ba kaya nagresearch para matulungan natin sila. Kaya pinopondohan ng gobyerno ang

R&D, it is because the results of research will help uplift the lives of people in their practical applications,” said the chair of the Senate Committee on Agriculture and Food.

She said the NTF is relevant because it highlights the R&D outputs and technologies supported by BAR under the NTCP which really play a vital role in the development of enterprises and

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Key personalities visit 14th NTF

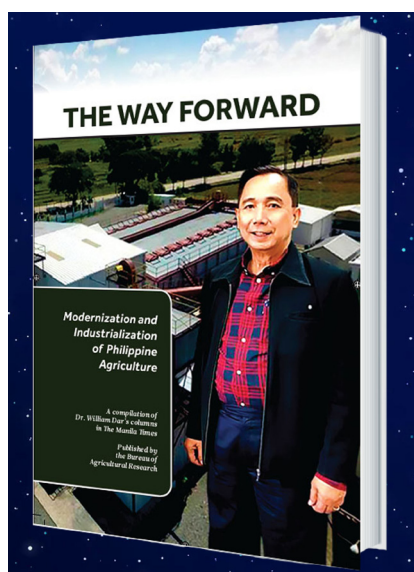
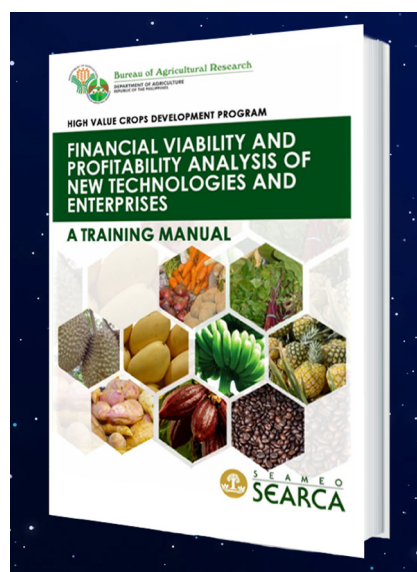
Senator Cynthia Villar, Agriculture and Food Committee chairperson, and other key officials and known personalities visited the 14th Agriculture and Fisheries Technology Forum and Product Exhibition (NTF) held at the Megatrade Hall 2, SM Megamall, Mandaluyong City on August 30-September 2, 2018.

The four-day forum and exhibit, annually conducted by the Bureau of Agricultural

Research (BAR), through its Technology Commercialization Division, features different products generated from research and development (R&D). It aims to hasten the promotion and commercialization of agri-fishery R&D products and technologies. The forum was participated in by 92 exhibitors, including Department of Agriculture-Regional Field Offices (DA-RFOs), Bureau of Fisheries and Aquatic Resources (BFAR)

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BAR-supported books launched



Two books supported by the Bureau of Agricultural Research (BAR) were launched during the opening program of the 14th Agriculture and Fisheries Technology Forum and Product Exhibition on 30 August 2018 at SM Megamall, Mandaluyong City.

The two books launched were: 1) “Financial Viability and Profitability Analysis of New Technologies and Enterprises” – a training manual prepared under the High Value Crops Development Program of BAR that was commissioned to the Southeast Asian Regional Center for Graduate Study and Research

in Agriculture (SEARCA); and 2) “The Way Forward: Modernization and Industrialization of Philippine Agriculture” – a compilation of Dr. William Dar’s insightful weekly column in the Manila Times.

The training manual is an in-depth discussion on the different analytical tools, including exercises focused on computer applications of these are outlined in this book. Essentially, the training manual aimed to equip the would-be users including research personnel from various academic and research institutions with the knowledge and skills in conducting financial viability and profitability analysis of new technologies and

enterprises.

Meanwhile, Dr. Dar’s 322-page compiled book was organized into six chapters with the hope of providing answers on what must the stakeholders and players in the agriculture sector do to modernize and industrialize the country’s agriculture sector. In his speech, after the book was officially presented to the public, Dr. Dar said that the book was titled —The Way Forward: Modernization and Industrialization of Philippine Agriculture — because it tells a message of the path that we, in the agriculture sector, should take. “This is a vision, that the Philippine agriculture should be guided by two dreams: modernization and industrialization. This is the advocacy of Inang Lupa Movement. I hope that the government listens to this dream so that our fishers and farmers will benefit, increase their production and income and thereby increase the creation of wealth for this country. This dream has a basis. It is from actual facts and figures and the knowledge and experience we have had in the area of agricultural research and innovation,” he said.

Finally, Dr. Dar hoped that the readers will be able to pick something from what he wrote, and that something will be planned and be implemented. “I will be happy” he concluded. ### (Rita T. dela Cruz)



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PRODUCTION TEAM

Editor:
Consulting Editor:
Managing Editor/Layout:
Writers:

Reproduction:
Circulation:
ACD Head:
Adviser:

Rita T. dela Cruz
Julia A. Lapitan
Ephraim John J. Gestupa
Ma. Eloisa H. Aquino, Daryl Lou A. Battad,
Rita T. dela Cruz, Leoveliza C. Fontanil,
Ephraim John J. Gestupa, Victoriano B. Guiam
Rena S. Hermoso, and Patrick Raymund A. Lesaca
Ricardo G. Bernardo
Lyn D. Pardilla and Lino Norman D. Reyes
Julia A. Lapitan
Dr. Nicomedes P. Eleazar, CESO IV

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For subscription and inquiries, please contact us at: Tel. Nos. +63 (2) 461-2800 or 461-2900
local nos. 1136, 1143, 1132, 1138 Fax No. +63 (2) 927-5691 Email: acd@bar.gov.ph
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Villar underscores...from page 1

improvement of agri- and fisheries-related industry. “I hope BAR will not waver in its commitment to consolidate, strengthen, and develop the agriculture and fisheries R&D system for the purpose of improving its effectiveness and efficiency,” she added.

On the issue of food security and importation, the senator said that, “no matter how hard it is, we have to improve our production of food so that we will produce enough food for our people and we produce it in competitive prices.”

Also present during the opening was DA Assistant Secretary Roldan G. Gorgonio, who represented Secretary Emmanuel F. Piñol. Gorgonio commended the bureau for showcasing to the public the results of R&D and stressed the importance of mainstreaming food, non-food products, and



(L-R) BAR Asst. Dir. Digna Sandoval, DA Asst. Sec. Roldan Gorgonio, BAR Director Nicomedes Eleazar, Senator Cynthia Villar, Former DA Sec. William Dar, and BAR-TCD Head Anthony Obligado.

commercializing generated technologies to the market through technology commercialization.

He said that in this technological era, farmers and fishers must be equipped, trained, and capacitated with modern technologies and must have access to right information in order for them to be truly competitive.

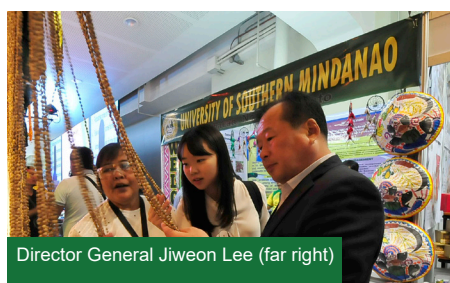
He challenged all agricultural R&D workers to adhere to the vision and mission of DA on food security and sustainability. And in the pursuit of its mission of reducing poverty and making Philippine agriculture sustainable and globally competitive sector. ### **(Rita T. dela Cruz and Patrick Raymund A. Lesaca)**



Senator Cynthia Villar (center)



Committee Secretary Cecilia Barbara Reyes (center)



Director General Jiweon Lee (far right)



Sen. Ramon Magsaysay Jr. (left)



Dir. Eleazar (left) with Cong. Evelina Escudero (right)



BSWM Director Angel Enriquez (right)



Dr. William Dar (left) and Dr. Luis Rey Velasco (right)



Mrs. Felicidad Tan-Sy (center)

PHOTOS: NTF Documentation Committee

Key personalities...from page 1

regional offices, attached agencies and staff bureaus, state universities and colleges, international organizations, and other partner-institutions.

Key officials who visited the forum included Rep. Evelina Escudero of the first district of Sorsogon; Cecilia Barbara Reyes, committee secretary of the Special Committee on East ASEAN Growth Area, House of Representatives; Angel Enriquez, Director of Bureau of Soils and Water Management director; and Dr. Jiweon Lee, director-general of Korea's Rural Development Administration-Technology Cooperation Bureau.

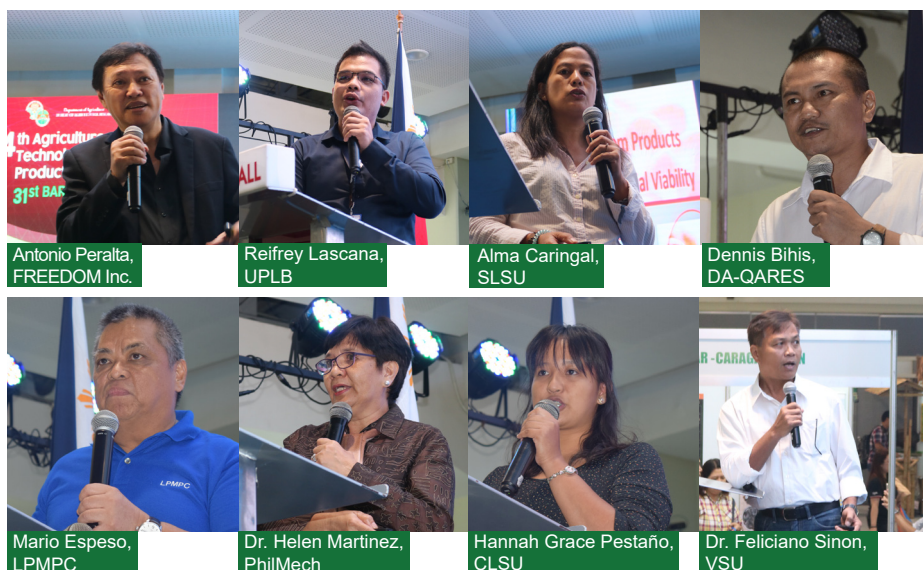
Other known personalities who visited were: Dr. William Dar, president of Inang Lupa Movement, Inc. and former secretary of the Department of Agriculture; Ramon Magsaysay, Jr., former senator; Dr. Luis Rey Velasco, former chancellor of the University of the Philippines Los Baños; and Felicidad Tan-Sy, wife of the owner of SM Malls. ### **(Rena S. Hermoso)**

SEMINARS HIGHLIGHT FINANCIAL VIABILITIES OF HIGH-VALUE COMMODITIES

Highlighting on the agribusiness potentials and financial viabilities of various technologies supported and funded by the Bureau of Agricultural Research (BAR) under the National Technology Commercialization Program (NTCP), a seminar series was held on Aug.31-Sept.1, 2018 during the 14th Agriculture and Fisheries Technology Forum and Product Exhibition (NTF) held at SM Megamall, Mandaluyong City.

The seminar topics focused on the innovative and relevant technologies that the public may want to engage on for its agribusiness and profit potentials. Among the topics discussed were on Nipa palm, batuan, mushroom, coffee, cacao, Queen pineapple, mango, and abaca.

The topic “Financial Viability of Processing Nipa Palm Sugar” was discussed by Antonio Peralta of the Foundation for Rural Enterprise and Ecology Development of Mindanao (FREEDOM Inc). According to the speaker, Nipa palm sap can be harvested year round and aside from its major product which is sugar, it can be further processed into other products including syrup, vinegar (*sukang sasa*), wine (*lambanog* or brandy) and bioethanol. He further said that Nipa sugar processing and production has a potential to expand in coastal communities in the Philippines and other



municipalities. The processed syrup and sugar had a doubled and tripled economic value.

The seminar on “Financial Viability of Batuan Value-Added Products” was presented by Reifrey Lascana of the University of the Philippine Los Baños (UPLB). Unknown to many Filipinos, batuan (*Garcinia binucao*) classified as “neglected and underutilized” crop is popularly used in cooking as a sour-agent particularly in Negros Islands. Lascana mentioned that batuan can be made into puree, sweet pickles, jam, jelly, concentrate, powder, a ready-juice-drink, and *sinigang* mix. Fixed capital investments, selling price and sale assumptions of each value-added product were also

presented. Based on the financial analysis, a five-year project for the manufacturing of value-added batuan products is financially viable.

A demanded topic among attendees, the seminar on “Financial Viability of Oyster Mushroom Products” was discussed by Alma Caringal of the Southern Luzon State University (SLSU). Her presentation focused on the health benefits and anti-oxidant properties of eating mushroom. Procedures of SLSU’s mushroom dishes such as mushroom chocolate brownies and mushroom chocolate appetizer with its cost and return analysis were also presented.

Dennis Bihis of the Department of Agriculture-Quezon Agricultural Experimental Station (DA-QARES) presented the seminar topic on “Financial Viability of Cacao Production and Developed Products.” He showed the cost and return analysis of the various cacao value-added product lines developed by DA-QARES such as tablea, dark chocolates, chocolate crispy cookies, polvoron de cacao, and cacao wine. He also highlighted that these cacao generated technologies are good livelihood opportunities particularly



Attendees during the NTF seminar PHOTOS: NTF DOCUMENTATION COMMITTEE

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Edible Landscaping music video re-launched

The Bureau of Agricultural Research (DA-BAR), together with Edible Landscaping (EL) team of the University of the Philippines Los Baños (UPLB), re-launched the “*Tara! Mag Edible Landscaping Na!*” music video during the 14th Agriculture and Fisheries Technology Forum and Product Exhibition (NTF) held at SM Megamall, Mandaluyong City.

Created to promote and disseminate information on EL technology to a wider audience, the music video features the EL techno-demo garden located at the UPLB campus and the different adopters of the technology. The song was composed by Jascha Emmanuel A. Dadap, Von Jelmar P. Herbosa, and Maria Charito E. Balladares.

Since 2010, BAR and UPLB have been working together to promote the EL technology. EL is a new and innovative way of creating attractive and functional spaces while producing safe and nutritious food. This means that vegetables, herbs, medicinal plants, and fruit trees are used to decorate landscapes and garden instead of ornamentals.

Present during the music video re-launch were Dr. Nicomedes P. Eleazar, BAR director; Digna L. Sandoval,

BAR OIC-assistant director; Dr. Glenn S. Lubuguin UPLB assistant to the vice chancellor for research and extension; and Angel C. Enriquez, OIC-director of the Bureau of Soils and Water Management.

The EL theme song was performed live by Kyle John Echarri, millennial ambassador of the EL project. Funded by BAR, the EL music video was first launched on 26 August 2017 in Quezon City. ### (Rena S. Hermoso)



Millennial ambassador Kyle John Echarri (center) at the NTF Edible Landscaping Central Setting during the 14th NTF. PHOTO: NTF DOCUMENTATION COMMITTEE

for smallholder farmers.

A topic on the “Financial Viability of Queen Pineapple Products” was presented by Mario Espeso of the Labo Progressive Multi-purpose Cooperative (LPMPC). He discussed various fresh and processed products from Queen pineapple as well as their potential markets both in the local and international markets. Queen pineapple fruit can be processed into juice, spread and candies. Meanwhile, the fiber from its leaves can be made into *barong* cloth, fan, coin purse, handicraft paper; and the pulp and skin from the fruits can be used as feeds for worms (African nightcrawler) for vermicomposting. Included in his presentation were the marketing prospects of Queen pineapple and its by-products.

“Financial Viability of Coffee Processing Technologies” was discussed by Dr. Helen Martinez of the Philippine Center for

Postharvest Development and Mechanization (PhilMech). According to her, the Philippines consume coffee more than our coffee farmer produce. To meet the market demand the government still imports 100-135,000 metric tons of coffee. Coffee farmers expand their production to meet the needed supply, yet the problem was the post production losses due to poor handling during harvesting. To support the needs and reduce the losses of coffee bean due to conventional practices, Martinez mentioned that PhilMech is promoting the adoption of new technologies on Postharvest (PH) System for the quality of the green coffee beans. They also provide a set match of coffee facilities and equipment to the farmer-cooperatives beneficiaries to produce quality green coffee beans when processed. Partial budget for determining the profitability of

coffee postharvest practices with adoption of PhilMech equipment and recommended installed coffee processing facilities of wooden pulper was also presented.

Another topic focused on the processing and commercialization of *Mangifera* liqueur was discussed by Hannah Grace Pestaño of the Central Luzon State University (CLSU). According to her, the product development of mango-infused liqueur was intended to address the problem of large postharvest losses of farmers engage in mango farming in Region 3. To help mango farmers and create additional livelihood opportunities for them, the technology was developed by CLSU to produce more stable, value-added products from mango. Result of market study showed that 80 percent of the respondents preferred mango liqueur creating 67

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QARES' Cacao wine wins best product DA-ARMM takes home best booth



Best product competition 1st Placer, Cacao Wine
PHOTOS: NTF DOCUMENTATION COMMITTEE



2nd Placer, MangBean Soup



3rd Placer, Adlay-based products



4th Placer, NutriConvoy



5th Placer, Veggie Chips

Besting 80 product entries for this year's 14th Agriculture and Fisheries Technology Forum and Product Exhibition's (NTF) Best Product was the cacao wine from the Department of Agriculture-Quezon Agricultural Research Experiment Station (DA-

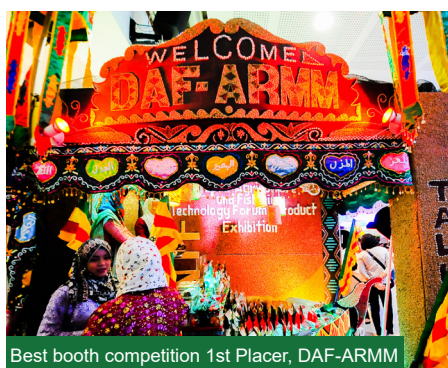
QARES).

Made from the seed pulp – a part of the fruit that it often regarded as waste, the cacao wine's sleek packaging and labeling, exceptional product quality, and most especially its local and international market

potential and competitiveness impressed the judges paving for its win at the forum's annual product competition.

DA-Regional Field Office (DA-RFO) 2's MangBean soup product landed on second place, while DA-RFO 11's adlay products came third. MangBean soup is one of the region's product lines made from soybean. It is considered a highly-nutritious instant soup as soybean contains healthy amounts of protein, fiber, and ash, and has lower phytic acid than most legume crops. Meanwhile, adlay-based products instant mami is packed with adlay grains in native

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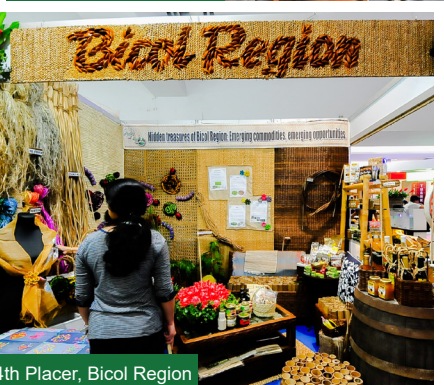
Best booth competition 1st Placer, DAF-ARMM



2nd Placer, MIMAROPA



3rd Placer, Ilocos Region



4th Placer, Bicol Region



5th Placer, CARAGA

BAR awards 5 IPR trademark registrations

In support to the promotion of innovation and creation through Intellectual Property Rights (IPR) protection, the Bureau of Agricultural Research (BAR) awarded five certificates of trademark registration to agencies and private individuals during the closing ceremony of the 14th Agriculture and Fisheries Technology Forum and Product Exhibition (NTF) at SM Megamall Megatrade Hall 2.

The IPR certificates of trademark registration were awarded to BAR's partner institutions, namely: Philippine Coconut Authority-Albay Research Center (Mak Gum), Central Luzon State University (UMART and K-Zser), University of the Philippines Los Baños (Technology Commercialization on Wheels); and private individual, Evelyn Rimando (Cozy Coast).

The IPR protection is given by the International Property Office of the Philippines (IPOPhil) through the assistance of the bureau's Intellectual Property Rights Unit, which is under the Technology Commercialization Division. Dr. Andrea Agillon, a licensed patent agent, facilitates the IPR process of securing legal protection from the IPOPhil. ###
(Daryl Lou A. Battad)



Recipients of the IPR certificates of trademark registrations together with Dir. Eleazar, Asst. Dir. Sandoval, Dr. Dar, and Mr. Obligado. PHOTO: NTF DOCUMENTATION COMMITTEE

chicken flavor while the *Adlay Pao* is made from adlay flour with asado-flavored mushroom filling.

Finishing as fourth and fifth placers were the NutriConvy and Veggie Chips products developed by DA-RFO Caraga and DA-RFO 5, respectively. The NutriConvy products include muffin mix, adlay caldo, and pancake mix packed with adlay, squash, malunggay, and soybean as the main ingredients, with no preservatives, artificial flavors, and colors. The Veggie Chips, on the other hand, are a healthy alternative to junk food snacks such as chips or chichirya. These nutritious chips come in five flavors: ampalaya, squash, malunggay, tomato, and carrots.

Special awards were

also given to various products that may have failed to meet the criteria but their ingenuity and uniqueness, one can't just set aside. Sheep wool products and fossilized cacao leaves from DA-RFO CALABARZON; Malunggay pods decorations and cyperus grass products from DA-MIMAROPA; raffia grass products from DA-RFO 5; and the aloe vera-based products from Rescue Environment through Greening Outreaches, a non-government organization based in Quezon province bagged this year's special awards. Entries for the Best Product category were evaluated based on the following criteria: creativity and uniqueness; relevance to food security; health and wellness; good

product attributes; packaging and labeling; and market potential and competitiveness.

Meanwhile, the NTF's Best Booth competition gives recognition to participating exhibitors who displayed creativity, originality, and uniqueness in designing their respective booths. The winners were: Department of Agriculture and Fisheries – Autonomous Region of Muslim Mindanao (DAF-ARMM), first place; DA-MIMAROPA, second place; DA-RFO 1, third place; DA-RFO 5, fourth place; and DA-Caraga, fifth place. DA-RFO 2 and the Bureau of Fisheries and Aquatic Resources (BFAR) Regional Office 2 also received special awards for the

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STRENGTHENED RRDEN LAUNCHED



Members of the presidential table are accompanied by representatives from 16 regional research centers during the launch of the RRDEN. PHOTO: RDELACRUZ

Research partners from 16 regions signify their support and commitment to the implementation of the strengthened Regional Research, Development and Extension Network for Agriculture and Fisheries (RRDEN) which was launched on 30 August 2018 during the opening of the 14th Agriculture and Fisheries Technology Forum and Product Exhibition (NTF).

During the launch, each representative composed of regional technical directors and research division chiefs, from the 16 regions showcased the RRDEN official

logo which carries the original design proposed by the Mindanao group, with modifications and improvements done by BAR's Applied Communication Division embodying the network's identity and purpose.

Regional representatives, along with BAR officials also signed the "RRDEN Commitment Wall" to show their support. This also reinforces the bureau's partnership with the regions.

RRDEN was created for each region pursuant to the Agriculture and Fisheries Modernization Act (AFMA) under Rule 81.14.3

mandating DA Regional Integrated Agricultural Research Centers (RIARCs) to develop and maintain a network of regional and provincial collaborators in undertaking the regional RDE programs. BAR was tasked to oversee and coordinate the activities of the network to ensure the efficient delivery of the RD&E system, and at the same time strengthen the cooperation among network members.

Through the established network, a systematic implementation of RDE agenda and complementation of programs for agriculture and fisheries is achieved. #### (Rita T. dela Cruz)

20 BAR employees receive loyalty award



PHOTO: NTF DOCUMENTATION COMMITTEE

Pursuant to the Civil Service Commission (CSC) Resolution No. 02-0295, series of 2002, the Bureau of Agricultural Research (BAR) conferred a loyalty award to its 20 employees during the closing ceremonies of the 14th Agriculture and Fisheries Technology Forum and Product Exhibition (NTF) at SM Megamall, Mandaluyong City.

Recipients of the loyalty award for 30 years of government service were: BAR Director Dr. Nicomedes Eleazar; BAR OIC-Assistant Director Digna Sandoval; Dr. Andrea Agillon, Victoriano Guiam, Ricarte Castro, Rosalia Maranan, Melissa Resma, Ludivina

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Korea RDA officials attend KOPIA Phil inauguration and 14th NTF



Ribbon cutting ceremony with DA Secretary Emmanuel Piñol (far left). PHOTOS: EGESTUPA

Officials of the Philippines' Department of Agriculture (DA) and Korea's Rural Development Administration (RDA) attended the inauguration of the Korea Program on International Agriculture (KOPIA) Center in the Philippines on 30 August 2018 at the Bureau of Plant Industry-Los Baños National Crop Research, Development and Production Support Center (BPI-LBNCRDPSC), in Los Baños, Laguna. The RDA officials likewise visited the 14th Agriculture and Fisheries Technology Forum and Product Exhibition (NTF) on 31 August 2018 at SM Megamall, Mandaluyong City wherein the Asian Food and Agriculture Cooperation Initiative (AFACI) of RDA was one of the international exhibitors.

Attending the launching of the KOPIA Center in the Philippines were DA Secretary Emmanuel Piñol and KOPIA Center Philippines Director Jeong Taek Lee. Also in attendance were Ms. Julia Lapitan, division head of the Bureau of Agricultural Research-Applied Communication Division, representing Director Nicomedes Eleazar; and officials from AFACI

led by Dr. Kim Min-Kyeong, deputy secretary general.

Both AFACI and KOPIA have long been collaborating with DA in the exchange of knowledge and information on agricultural technology with the aim to further realize the potential of Filipino farmers and fisherfolk.

"In the Philippines, Korea RDA is working on six projects that focus on the postharvest management of horticultural crops, development and dissemination of rice cultivars, and agri-mechanization. This is done by the partnership between the Philippines' research organizations and universities together with Korea's experts. To resolve sector's issues, we are sharing information and building problem-solving capacities," said Dr. Jeong Taek Lee, director of KOPIA Center Philippines.

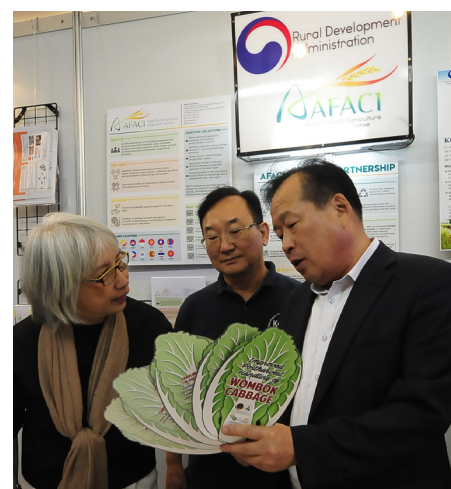
In the last three years, KOPIA Philippines has focused on promoting rice productivity through the propagation and dissemination of rice seeds, and the establishment of model villages. With the Center moving from the Philippine Rice Research Institute in City of Muñoz to BPI in Los

Baños, KOPIA is also focusing its cooperation projects on high-value crops like mushrooms, leafy vegetables, mungbean, and garlic.

In his message, Agriculture Secretary Piñol reiterated the importance of the Philippines' partnership with South Korea, citing how the developed country has successfully organized and empowered its rural farmers in the aftermath of the Korean War in the 1950s.

After the KOPIA launch, officials from RDA led by Dr. Jiweon Lee, director-general of RDA's Technology Cooperation Bureau, visited the NTF booths. They were met by BAR officials and AFACI Principal Investigators (PIs) who are responsible in implementing AFACI-funded projects in the country.

"AFACI is a way for Korea and the Philippines to solve agricultural challenges together through the sharing of information between the two countries, and through capacity building," said Dr. Lee. ###
(Ephraim John J. Gestupa)



(Left-Right) AFACI Principal Investigator Pearlita Nuevo, KOPIA Center Philippines Director Jeong Taek Lee and International Cooperation Bureau Director General Ji Weon Lee.

Phil AFACI Principal Investigators meet RDA's Director General



Director-General Jiweon Lee of the Technology Cooperation Bureau of the Korea RDA (man seated at the center) holds a meeting with AFACI Principal Investigators where he along with other KRDA officials were updated with the project impact of completed AFACI-funded research facilitated by DA-BAR. PHOTO: PRLESACA

To orient and report on the status of the Asian Food and Agriculture Cooperation Initiative (AFACI) projects that are implemented in the Philippines, a meeting was called for all Principal Investigators (PIs) on 31 August 2018. Attending the meeting was Dr. Jiweon Lee, director-general of Technology Cooperation Bureau of Korea's Rural Development Administration (RDA) and AFACI officials led by Dr. Kim Min-Kyeong, deputy secretary general.

Facilitating the meeting was Ms. Julia A. Lapitan, national contact person of AFACI to the Philippines and head of the BAR-Applied Communication

Division. In the meeting, she provided a brief overview and current status of the AFACI-funded projects in the Philippines, which are being coordinated by BAR with the leadership of Dr. Nicomedes P. Eleazar, AFACI national representative. Lapitan mentioned that of the 14 AFACI-funded projects, 12 had already been completed and the remaining two are now on their last phases of completion.

DG Lee acknowledged the results of the projects as well as the strong partnership between the Department of Agriculture (DA), through BAR, and RDA through AFACI. He also hoped to continue the partnership through technical and financial supports in the future.

In response, Lapitan expressed her appreciation to the AFACI for the support accorded to DA and its R&D implementing partner

institutions.

DG Lee urged all AFACI PIs to ensure that the projects will produce significant impacts to the farming communities and to agricultural sector of the country. Responding to the call, the five PIs present during the meeting articulated on the impacts of their respective projects during the dialogue.

The PIs present during the meeting were: Dr. Marilyn Brown and Dr. Mannix Pedro from the National Institute of Microbiology and Biotechnology-University of the Philippines Los Baños (UPLB); Dr. Romualdo Martinez and Dr. Ofero Capariño of the Philippine Center for Postharvest Development and Mechanization; Dr. Victoria Lapitan and Mr. Genaro Rillon from the Philippine Rice Research Institute; Dr. Perlita A. Nuevo and Dr. Matilde Maunahan from the Postharvest Horticulture Training and Research Center, UPLB; Mr. Vincent Tecson from the Bureau of Agriculture and Fisheries Standards (represented Mary Grace R. Mandigma); and Ms. Haycel Reyes from the Bureau of Soils and Water Management (represented Karen Bautista). ###
(Patrick Raymund A. Lesaca)



AFACI Principal Investigators

BAR leads NTCP proposal writeshop



BAR Director Nicomedes Eleazar (right) addresses the participants of the NTCP proposal writeshop where he reiterated the need to fund research initiatives in line with the priorities of their respective regions and DA's priority commodities (photo above). **PHOTOS: LFONTANIL**

To capacitate research the partners of the Bureau of Agricultural Research (BAR) in packaging projects for funding under the National Technology Commercialization Program (NTCP), the bureau, through its Technology Commercialization Division (TCD) spearheaded the conduct of writeshop on 13-17, August 2018 in Los Banos, Laguna.

Specifically, the writeshop aimed to ensure that the availability of quality proposals for funding are geared towards the Department of Agriculture's priority commodities.

Attending the activity was BAR Director Nicomedes P. Eleazar who underscored the goal of the bureau in ensuring that the proposals submitted for funding should be within the national and regional priorities as stipulated in

the Research and Development, Extension Agenda and Programs (RDEAP) 2016-2022 and in DA's priority commodities. He also reiterated some of the successful projects that were supported and assisted by the bureau since the NTCP program started.

Highlights of the workshop included guidelines on NTCP proposal preparation, market research and its financial tool, technology readiness level, intellectual property and BAR budget-related concerns.

During the breakout sessions, participants packaged their capsule proposals into a detailed proposal. They were divided into groups (high value crops, corn, cassava, organic agriculture, livestock and fisheries) and each agency presented their respective

working outputs. The R&D proposals will be prioritized and pipelined in the next funding year wherein it is expected to generate, develop, and commercialize mature technologies.

Also present during the writeshop were BAR-TCD Head Anthony B. Obligado and BAR Pool of Experts for NTCP composed of: Dr. Cesar B. Quicoy; Dr. Glenn N. Baticados; Dr. Elda B. Esguerra and Dr. Edralina P. Serrano, all from the University of the Philippine Los Banos (UPLB); Dr. Bessie M. Burgos of the Southeast Asian Regional Center for Graduate Study and Research in Agriculture (SEARCA); and Ms. Cherry Marie N. Natividad-Caballero of Optiserve Technologies, Inc. ### (*Leoveliza C. Fontanil*)

Eleazar attends groundbreaking of UPLB's ICropS Greenhouse



BAR Director Nicomedes Eleazar (5th from left) and UPLB College of Agriculture Dean Enrico Supanco (4th from left) leads the groundbreaking ceremony of the Modern Academic Research (ICropS) Greenhouse. PHOTO: MEAQUINO

Dr. Nicomedes P. Eleazar, director of the Bureau of Agricultural Research (BAR); and Dr. Enrico P. Supanco, dean of the College of Agriculture, University of the Philippines Los Baños (UPLB), led the groundbreaking ceremony of the Modern Academic Research (ICropS) Greenhouse on 16 August 2018 at the Institute of Crop Science, UPLB, College, Laguna.

Joining them were BAR OIC-Assistant Director Digna Sandoval, UPLB Vice Chancellor for Planning and Development Marish Madlangbayan, UPLB Foundation, Inc. Executive Director Casiano Abrigo, Jr. and ICS-UPLB Director Edna A. Aguilar.

The soon-to-be established ICropS Greenhouse complex will provide a better-controlled artificial environment allowing a year-round conduct and monitoring of experimental studies providing a more enabling research environment for ICropS students, faculty, and researchers. The facility will likewise cater to studies on crop profiling, breeding, development of integrated crop management strategies, controlled experiments for genetic

studies, among others producing better crop varieties thereby improving crop productivity.

The facility was funded by BAR through its Institutional Development Grant (IDG) program which provides funds and support for the upgrading and acquisition of priority agriculture and fisheries R&D facilities and equipment.

Dir. Eleazar, in his message, hoped for the R&D facility to be

operational and useful not only to the faculty and researchers of UPLB and other R&D institutions but more importantly, to students who will be the country's future technology generators or developers. Furthermore, he looked forward to a more established greenhouse facility because "this will serve as show window for other donor institutions and even foreign institutions". ###
(Ma. Eloisa H. Aquino)

NTF Seminars...from page 4

percent return on investment within 5.8 years payback period.

The topic on "Financial Viability of Abaca Products" was presented by Dr. Feliciano Sinon of the Visayas State University (VSU). According to him, the National Abaca Research Center (NARC) based at VSU has developed a multi-stranded yarning machine for the production of abaca yarn. The technology replaces the tedious, time consuming of abaca farmers on knotting abaca fiber or tinagak-making. The twinning machine is useful for handicraft making, easy and simple to operate. The cost and return analysis of the machine

amounts to Php 45,000 with the net income of about Php 129/day with a payback period of 1.71 years and return on investment as high as 58 percent.

Aside from financial viability on the agri-commodities, other seminar topics that were featured included: 1) innovative products from corn, 2) corn silage production, 3) chevon-based products, 4) commercial production of native chicken, 5) soybean value-adding technologies, 6) guyabano product development, 7) algal paste in aquaculture, and 8) microbial inoculant for pests and diseases. ### (Leoveliza C. Fontanil)

BAR employees undergo retooling training on RBM&E



BAR technical staff (left) receive their certificates after the four-day training on Results-based Monitoring and Evaluation which was facilitated by ASEAN High Level Conference on Social Protection regional consultant, Dr. Romeo B. Santos (right). PHOTOS: PRLESACA

To strengthen the capacities of the Bureau of Agricultural Research's (BAR) technical staff in monitoring and evaluation (M&E) and to develop the results framework of different research and development (R&D) programs being handled, BAR through its Program Monitoring and Evaluation Division (PMED), spearheaded the "Training-Workshop on Results-based Monitoring and Evaluation (RBM&E) for Agriculture and Fisheries Research and Development" on 6-9 August 2018 in Quezon City.

Dr. Romeo B. Santos, an RBM&E advocate and regional consultant at ASEAN High Level Conference on Social Protection, served as the resource speaker during the four-day training. He is also a professor at the University of the Philippines Diliman.

Dr. Santos presented the importance of measuring the performance and success in

organizations. A short glimpse of the role and history of RBM&E were also presented. Capitalizing on the importance of project evaluation, he talked about the difference between the traditional Monitoring and Evaluation (M&E) and RBM&E. He explained that in the M&E traditional approach, Inputs, Activities and Outputs (I-A-O) are the main parameters, while in the RBM&E, aside from the I-A-O, Results or Outcomes and Impacts are included in the system.

He also discussed how to design the RBM&E Framework and provided the participants a walk-through on how to establish baseline data, target settings, and formulate evaluation questions using the RBM&E performance framework as reference.

The training was divided into five-lecture sessions wherein BAR's major and commodity programs were used as actual working materials: Community-based Participatory Action

Research; National Technology Commercialization Program; National Corn and Cassava Program; High Value Crops and Development Program; and National Organic Agriculture Program. ### (*Patrick Raymund A. Lesaca*)



Dr. Romeo B. Santos, resource speaker during the four-day training.

Region 11 convenes stakeholders for RRDEN meeting

As a sign of commitment and support to the revitalization of the Regional Research Development and Extension Network (RRDEN), the Department of Agriculture-Regional Field Office (DA-RFO) 11 spearheaded the conduct of RRDEN meeting on 10 August 2018 in Matina, Davao City.

DA-RFO 11 Regional Technical Director Angelina Pancho officially opened the activity and facilitated the discussion. Meanwhile, Bureau of Agricultural Research (BAR) OIC-Assistant Director Digna L. Sandoval and regional coordinator for DA-RFO 11, discussed the Implementing Rules and Regulations (IRR) of RRDEN.

As stipulated in the IRR of RA 8435, the Regional Research Divisions, under the guidance of BAR, is mandated to develop and maintain a network of regional and provincial collaborators in their

RDE programs. The RRDEN shall serve as a vehicle to systematically develop and implement a regional RDE agenda and program for agriculture and fisheries.

Head of agencies and representatives from the various sectors participated in the discussion. The activity provided a venue to gather insights, recommendations, and discuss complementation of RD&E activities in lieu of the revitalization of the RRDEN. ###
(Ma. Eloisa H. Aquino)



Asst. Director Digna Sandoval was in attendance during the RRDEN meeting. PHOTOS: MEAQUINO



Asst. Director Digna Sandoval (center) together with the head of agencies and representatives from various institutions in Region XI who signified commitment and membership to the Regional Research Development and Extension Network (RRDEN). Agencies include the National Government Agencies, Local Government Units, State Universities and Colleges, Regional Commodity Councils, and private institutions.

20 BAR employees...from page 8

Pelayo, Julieta Yonzon, Elec Yadao, Alfonso Nidoy, Ronnie Rosales, and Merlinda Martinez.

Loyalty awardees for 20 years of service included Ma. Louella Dejele, Rodolfo Galang, Christopher Lazaro, and Elvira Rapada; while those the loyalty award for 15 years of service were given to Francisco Grettchin, Ricardo

Bernardo, and Roberto Quing, Jr.

The continuous and satisfactory service rendered by an employee in the government for a period of 10-40 years will be awarded with loyalty memorabilia such as a bronze service pin (for 10 and 15 years of service), a silver service ring (for 20 and 35 years of service), and a gold service medallion (for 30, 35, and 40 years of service).

In addition, a cash gift for every year of service is given to qualified officials and employees.

As per CSC, the loyalty award is granted to all officials and employees, in the national and local governments, including those in the state universities and colleges and government-owned and controlled corporations. ### (Darly Lou A. Battad)



In celebration of its 31st anniversary, BAR recognized 20 of its employees with a loyalty award to thank them for their years of service. PHOTO: NTF DOCUMENTATION COMMITTEE

DA-RFO 11 showcases technologies on breadfruit and CRA in field days



(L-R) Ms. Twinkle Frias of DA- Systems-Wide Climate Change Office (SWCCO); Ms. Nida E. Gigayon, OIC-Chief Research Division of DA-RFO XI; Ms. Jovita J. Astilla, CRA-AMIA Focal; Ms. Selen Sargado, agricultural technician assigned in Brgy. Suawan of Marilog District Davao City; OIC-Assistant Director Digna L. Sandoval of DA-BAR; DA-RFO XI Regional Technical Director Angelina S. Pancho; and Mr. Simeon C. Fernandez of DA-RFO XI and CRA project leader.

To showcase package of technologies on breadfruit and results of community-based action research for Climate-Resilient Agriculture (CRA), the Department of Agriculture-Regional Field Office (RFO) 11 spearheaded the conduct of two field days on 8-9 August 2018 in Davao City.

Attending the activities were Bureau of Agricultural Research (BAR) OIC-Assistant Director Digna Sandoval; and DA-RFO 11 Regional Technical Director Angelina S. Pancho.

In the message of Asst. Dir. Sandoval, she reiterated the importance of CPAR in empowering farmers and communities. She encouraged the farmers' groups to federate into cooperatives and create plans and activities that will sustain them even if the project has been completed.

Asst. Director Sandoval turned over copies of the crop calendars to DA-RFO 11. The crop calendars were produced and packaged under the DA-BAR-Asian Food

and Agriculture Cooperation Initiative-Agricultural Technology Information Network in Asia (AFACI-ATIN) project.

The field day on CRA is part of the Adaptation and Mitigation Initiative in Agriculture (AMIA) 2 Program that is being managed by BAR through its Climate Change R&D Program in partnership with the DA-Systems Wide Climate Change Office and DA-RFO 11. The project is one of the pilot sites for the AMIA Village which aims to create CRA livelihoods in target climate-risk communities in Region 11. This is going to be achieved through locally-adapted CRA practices and enhanced community capacities for adaptive learning to climate change.

Meanwhile, the field day on breadfruit showcased technologies including demonstration of the asexual propagation of breadfruit using different rootstocks, that the farmers can adopt and use. To date, BAR has supported five projects on breadfruit covering benchmarking studies and researches on pest management, propagation

techniques, nursery establishment, and product development and commercialization implemented by the different R&D institutions. Based on the results of the project on breadfruit implemented by DA-RFO 11, breadnut got the highest graft success at 82 percent with 75 percent graft survival. ### (Ma. Eloisa H. Aquino)

QARES' cacao wine...from page 7

Best Booth category.

The Best Booth category was judged based on the following criteria: booth design (originality, uniqueness, creativity, use of indigenous materials, organization of display); booth contents (showcase of BAR-funded projects and presence of knowledge materials); and staff presentation (fully knowledgeable about the projects and products being showcased).

All winners received R&D grants and a plaque. ### (Daryl Lou A. Battad)

BAR CONDUCTS GENDER SENSITIVITY TRAINING



Participants of the GAD Training PHOTO: RHERMOSO

As part of its efforts to mainstream gender into the agency's system, the Bureau of Agricultural Research (BAR) conducted a Gender Sensitivity Training (GST) for its staff on 14-17 August 2018 in Lumban, Laguna. Incidentally, August 14 marks the 9th anniversary of the Magna Carta of Women since its enactment.

Ms. Maria Daryl L. Leyesa, gender and development (GAD) consultant and women's rights advocate, served as the resource speaker for the four-day activity.

The training was conducted

to capacitate the bureau's administrative and technical staff with the basic knowledge on GAD. The participants were also oriented on the national and international mandates and commitments on GAD and equipped with the introductory information on sexual orientation, gender identity, and expression, gender sensitive research, and gender mainstreaming in development planning.

During the training, the participants were divided into four groups to better facilitate

the sharing of thoughts and ideas, and to ensure that all participants can share their opinions. Ms. Leyesa utilized interactive discussions and discourse coupled with games and role playing to present the social construct of gender as well as the international and national mandates on gender and development.

This is the sixth batch of GST conducted for the bureau's rank-and-file. For this batch, BAR-IDD spearheaded the conduct of the training. ### (*Rena S. Hermoso*)



RDMIC Bldg., Visayas Ave., cor. Elliptical Rd.
Diliman, Quezon City 1104
PHILIPPINES
