

# PHILMECH

Quarterly Publication of the Philippine Center for Postharvest Development and Mechanization



*Cover Story:*

**PHILMECH IS NOW  
IMS CERTIFIED**



**40 Years**  
of saving losses  
and modernizing  
the Philippine Agriculture

## ABOUT THE COVER

The IMS Champions of PHilMech who spearheaded and worked out the certification of the agency through persistent compliance and intensive training and monitoring of its employees.

Photo by: Danilo T. Esteves  
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## PHilMech at 40, up for higher gear

**T**he Philippine Center for Postharvest Development and Mechanization (PHilMech) marked its 40 years of research & development breakthroughs and efforts in empowering farmers and fisherfolk, last May 21-25.

With the theme "In High Gear to Transform the Future of Philippine Agriculture", the anniversary celebration, which coincided with the 19th Postharvest Loss Prevention Week, was filled with enthusiasm, nostalgia, and a commitment to the present and future.

"This year, PHilMech has reached another milestone and this calls for jubilation as we reminisce our past and foresee our future," said Dr. Baldwin G. Jallorina, PHilMech Director IV.

"Through research and development, we continue to find ways on how we can be more efficient and be the leader and center of postharvest and mechanization development," he added.

DA Secretary Emmanuel F. Piñol representative, OIC-Regional Executive Director (Region III) Roy M. Abaya read Piñol's message.

"Even if you are still a very young organization at 40, you have already contributed immensely into the wealth of knowledge on postharvest and mechanization through your vigorous and problem-oriented research and development work," the secretary commended.

He also emphasized the importance of mechanization.



*Director Baldwin G. Jallorina gives his anniversary message during the PHilMech Industry Day, in celebration of its 40th anniversary.*

"There is no other way that we can improve resource-use efficiency and productivity than mechanization and reducing the food losses through the use of improved practices and technologies," he added.

Piñol ended his message with a motivation: "The country is counting on your expertise and specialization that you will contribute in the mitigation of climate change in making Filipino agricultural products globally-competitive."

Meanwhile, Dr. Jallorina acknowledged the PHilMech cooperators, partners, and adopters.

"These adopters of PHilMech technologies continue to inspire us to live out our vision as the premier center for postharvest and

mechanization development for globally-competitive and sustainable agriculture and research center," the director said.

The inauguration of the Technology Management Demonstration Center (TMDC) and the Gala Night Awarding Ceremonies, where 18 PHilMech employees were recognized for their excellence, scientific productivity, and loyalty, also took place during the celebration. **by Jessica Marie B. Laturnas**

## PHilMech ABEs hold key PSABE position, win awards



*Engr. Aldrin E. Badua, the newly elected President of the Philippine Society of Agricultural and Biosystems Engineers (PSABE) for 2018-2019.*

**A**gricultural and biosystems engineers (ABEs) of PHilMech were elected to key positions of the Philippine Society of Agricultural and Biosystems Engineers (PSABE). Engr. Aldrin E. Badua, Supervising Science Research Specialist of the Enterprise Development Division was elected as the President for 2018-2019. Also, Engr. Andres Tuates, Jr., Science Research Specialist II of the Bio-Process Engineering Division was elected to the Board of Trustees and serves as the Public Relations Officer.

The election was held during the annual PSABE national convention held on April 23-27, 2018 at the University of Southeastern Philippines (USEP), Davao City. It can

be recalled that Engr. Genaro M. Tolentino, EDD Chief held the reins of the Society for two years in 2014-2016.

PHilMech staff who participated during the presentation of oral and poster papers also garnered awards. Second Best Poster was awarded to Engr. Arlene C. Joaquin, Engr. Richard P. Avila, Ms. Elizabeth V. Ramos, Dr. Romualdo C. Martinez and Engr. Pauline M. Pilar. While the 3rd Best Poster was awarded to Engr. Andres Tuates, Jr., Ms. Jeszel M. Suligan, Dr. Ofero A. Caparino, for their paper on cacao pod husk as fuel briquettes.

Dr. Baldwin G. Jallorina, PHilMech Director presented his paper "Harnessing Irrigation Water Flows

for Micro Hydro Power generation" during the plenary session. His paper was the highlight of his PhD dissertation conducted during his studies at the Central Luzon State University.

This year's PSABE annual convention registered the highest number of delegates of 1,800. Forty-five ABEs from PHilMech participated during the convention.

Similarly, PHilMech showcased its latest inventions and R&D results on agriculture and bio-systems engineering during the exhibits which were simultaneously held during the convention. **by Rodolfo P. Estigoy**





*The official delegates to the HLPD from the different countries. (Inset) Dr. Amelita R. Salvador during her presentation on the role of PHilMech in reducing postharvest losses.*



## PHilMech exec, researcher attend policy dialogue to reduce food losses

A high level policy dialogue on enhancing public and private partnership to reduce food losses and wastes for a sustainable APEC food system was conducted at Howard Plaza Hotel, Chinese Taipei from June 14-15, 2018. Director Baldwin G. Jallorina and Dr. Amelita R. Salvador of PHilMech participated in the event. Director Jallorina headed the Philippine delegation while Dr. Salvador presented an input paper on the "Role of PHilMech in Reducing Postharvest Losses" She also served as Chair in one of the sessions.

Since 2013, Chinese Taipei is implementing an APEC multi-year Project on "Strengthening Public-Private Partnership to Reduce Food Losses in the Supply Chain". Through the years, specialists and researchers in the area of food loss and wastes (FLW) from the different APEC member economies have presented FLW wastes quantification methods and have provided examples of their action plans to reduce FLW in the APEC regions. Consultation with experts on the best practices and policy recommendations for PPPs

along the FSC in APEC economies was also conducted by Chinese Taipei.

With PHilMech as the frontliner in addressing the reduction of postharvest losses through mechanization, APEC activities such as this one open avenue for knowledge and technology sharing with other APEC member economies.

**by Amy R. Salvador**

## PHilMech, DAR-NE to improve farmers' troubleshooting skills

A memorandum of agreement (MOA) has been signed by PHilMech and the Department of Agrarian Reform Nueva Ecija Provincial Office (DAR-NE) for the implementation of the capability-building training for the farmers last May 9, 2018.

The DAR-NE partnered with PHilMech to address the limited number of competent technicians who can repair and maintain machines.

Both parties agreed to conduct two batches of training courses at the PHilMech Main Office.

The training, dubbed as "Training on the Repair, Operation and

Maintenance of Small Farm Engines", would provide knowledge to the farmers on simple repair/troubleshooting and maintenance of their small farm engines.

The first batch of training was held last May 9-11 and the second will be held on August 1-3, 2018.

By the end of the course, the participants will be evaluated based on the knowledge that they gained and the skills they acquired.

PHilMech Director IV Dr. Baldwin Jallorina and PARPO I Jocelyn Ramones signed the MOA.

**by Jessica Marie B. Laturnas**



*Participants were introduced to the different coffee-processing equipment during the learning session.*



## Roadshow highlights farm efficiency

**T**he Department of Agriculture Regional Field Office IV-A (DA-RFO IV-A), PHilMech and FIT Corea Trading Philippines, Inc. – Korea Agricultural Machinery Industry Cooperative (KAMICO), organized a roadshow to showcase modern farm technologies at Southern Tagalog Integrated Agricultural Research Center (STIARC), Lipa City, Batangas last April 24 to 25.

With DA-RFO IVA as host, Regional Executive Director Arnel V. De Mesa emphasized in the opening program that farm mechanization is the solution to one of the major problems of the farmers.

*"Kung mapapababa natin ang labor*

*component ay mapapadagdagan natin ang kita ng mga magsasaka at isang pamamaraan para mapababa or to lower yung labor component is through the use of modern technology and agricultural equipment (If we will be able to lessen the labor component then we will be able to increase the income of the farmers and one way to lower the labor component is through the use of modern technology and agricultural equipment)," he said.*

For the part of South Korea, Kim Kyung Soo, director of Korea Agricultural Machinery Industry Cooperative (KAMICO), gave an encouraging note: "If we have one

mind and one goal then there is nothing that we cannot accomplish. We'll seek ways for all of us to unite and put ourselves together for the extension of farm mechanization in the Philippines and the mutual development."

"The roadshow is a collaborative endeavor between South Korea and the Philippines for agricultural development through the promotion of mechanization and postharvest technologies. Our goal is to create awareness and to stimulate the interest of the farmers in agricultural mechanization towards agricultural productivity," said Roderic O. Vereña, PHilMech lead in the event.

About 200 farmers from CALABARZON attended the two-day activity.

Four simultaneous lectures were given to the farmers. PHilMech experts discussed about rice mechanization, postharvest activities, and high-value crops to promote and propagate agricultural mechanization.

Meanwhile, technology demonstrations and hands-on activities were also held at STIARC demonstration farm and at a farm in Padre Garcia. **by Jessica Marie B. Laturnas**



*KAMICO's farm machine amazed farmers during the conduct of the roadshow.*

## PHilMech showcases technologies in various national agri-fairs

The Philippine Center for Postharvest Development and Mechanization joined in 10 various agricultural fairs conducted nationwide from April to June 2018. This year, as the agency celebrates its 40th anniversary, PHilMech has developed and disseminated postharvest and processing systems and technologies on different commodities such as rice, corn, soya, cacao, coffee, cashew, onion, and more. These were the highlights of the PHilMech booths during its participation in agri-fairs and exhibits.

Visitors were provided with free information, education and communication (IEC) materials and assisted in their queries and concerns. During every exhibit, the

exhibitors were treated with audio-visual presentations produced by the Applied Communication Division of PHilMech to complement their information needs.

During the month of April, PHilMech participated in the "Lakbay Palay" held in PhilRice on April 3-6, MIAP's 30th National Convention and 40th Founding Anniversary on April 11-14 in Malvar Batangas, Kabisig Expo on April 17-19 at Abreeza Mall, Davao, KAMICO Roadshow in Batangas on April 23-25 and PSABE Convention at USEP, Davao on April 23-26.

In the month of May, Laguna and Laoag agri-fairs dubbed as "Usapang Palay at Bigas Problema mo'y susubukang malutas" (May 15) and

"Bicentennial Tienda ni Gov." (May 16-22) were also participated by the agency. In the same month an exhibit was held at PHilMech in line with the celebration of its 40th Anniversary.

PHilMech has also participated in the Kabisig Expo 2018 in Luzon on June 19-21 at Trinoma Mall, Quezon City and the FPAA National Conference/ AgriFisheries R and D Festival on June 25-29 held at Sorsogon State College, Sorsogon City.

Exhibits and trade fairs are among the most effective strategies of the agency in bringing general awareness on the breakthroughs and efforts of PHilMech in transforming the future of agriculture. **by Isis DC. Davalos**



Ms. Isis DC. Davalos and Mr. Rhoween R. Parica explain the benefits of the manual coffee pulper to interested farmers





*Resource person Mr. Ronald Rodriguez coaches one of the trainees in the crafting of the portfolio, one of the requirements for competency assessment*

## PHilMech conducts Trainers' Methodology Level 1 Course

**T**he Technology Management and Training Division (TMTD) of PHilMech in partnership with the Nueva Ecija Association of Technical Vocational Incorporation (NEATVI) conducted the Trainers' Methodology Level 1 course at the PHilMech main headquarters, Science City of Munoz, Nueva Ecija from March 26 to May 2018.

The training course aimed to train and develop a pool of experts in designing training programs for a certain qualification. It also aimed to develop trainers and assessors for said qualification.

Sixteen PHilMech staff composed of National Certificate holders in Small Farm Engine Servicing NC II and

Drying and Milling Servicing NC III attended the training course.

The month long training was designed for a group of learners with concentrated time on given days. Learners agree to have distance learning in between. This will cover the days required for self-paced portion of the course. It must be noted that the length of the training or number of meetings may vary depending on the dedication of the learners to accomplish their goals.

The first three days of the training course started with orientation and group discussion for the preparation of the portfolio as a requirement of the course. This was followed by a weeklong online coaching and

mentoring for the development and crafting of portfolio for the particular qualification. Preparation and submission of portfolio is one of the requirements for competency assessment. To date, 15 out of 16 participants completed and submitted their portfolios. They took the competency assessment scheduled by TESDA. **by Remellie M. Hermoso**

## FEATURE STORY



# VOICES OF HOPE AND GRATITUDE



BY MILA B. GONZALEZ

**H**appiness showed on their faces as they greet PHilMech in its 40th year in the agriculture industry. Their testimonials revealed their high hopes and gratitude.

They are the beneficiaries and partners of PHilMech. They participated in the techno-forum during the milestone anniversary and 19th Postharvest Loss Prevention Week celebration of PHilMech on May 22, 2018 at its main headquarters in the Science City of Munoz, Nueva Ecija.

Mr. Nestor C. Jimoga-on, Jr., one of the rice technology entrepreneurs shared the experiences of Pototan Farmers' Multi-Purpose Cooperative based in Iloilo. He said, "*Malaking tulong sa amin ang Rice Processing Complex (RPC). Dati, traders ang nagdidictate ng presyo ng palay. Especially during first cropping season, napakababa ng palay, Php9.00 hanggang Php10.00...Nuong dumating ang RPC project, kami na nagdidictate ng presyo kasi meron na kaming rice mill, capital... Naestabilize presyo ng palay* (The RPC has been a big help. Before, the traders dictate the price of paddy. During first cropping season, the

price of paddy is very low, Php9.00 to Php10.00. When the RPC project arrived, we can dictate the price because we already have rice mill and capital. The price of paddy has stabilized)".

Mr. Alvin Mante of the Bohol Farmers' Multi-Purpose Cooperative shared the benefits derived from the Bohol RPC. "*...Malaking tulong sa maliit na magsasaka. Duon kapag umuulan, walang bumibili ng fresh harvest. Malaki rin ang problema sa mga scrupulous traders...Ngayon, iba na. Ang RPC bumibili ng fresh harvest sa halagang Php19.00. Kapag tuyo, Php22.00, ready for milling...Ang quality rice namin, binibili ng maliliit na magsasaka* (It's a big help to small farmers. In our place, nobody buys fresh harvest when it rains. We also have a problem with scrupulous traders. Now, it's different. The RPC buys fresh harvest at Php19.00. When the paddy is dry and ready for milling, it's Php 22.00. Our quality rice is bought by the small farmers)".

The technology adopter of PHilMech impeller-huller from Dipolog, Zamboanga City Mr. Clemente Guio also cited the PHilMech technology's benefits. "*Maliit ang rice mill pero nakakapagmill ito ng anim na kaban ng palay kada oras. Matipid ang koryente kasi gumagastos lang kami ng 10 centavos kada kilo ng palay... Maganda rin ang impeller-huller dahil mataas ang milling recovery,*





78%, at ang output na bigas ay malinis (The rice mill is small but it can mill six cavans of paddy every hour. We save on electricity because we spend only 10 centavos for every kilo of paddy. The impeller-huller is good because it has a high milling recovery of 78% and the milled rice is clean)".

Coffee grower and processor, Shirley Palaoay, said: "Yung inintroduce ng PHilMech na technologies in 2009 (pulper at huller) promote namin yan sa mga coffee growers namin kasi less labor at di-nasisira ang output...Then in 2011, ini-enhance uli ng PHilMech at naimprove uli ang quality ng aming green coffee beans...Kaya yung produce ng Tuba Benguet Coffee Growers Association (TuBengCoga) won in the Kape Pilipino. Nasa Top 10 po kami. (We promoted the coffee technologies (pulper and huller) of PHilMech to our coffee growers because these entail less labor and there is no deterioration of quality output... Then in 2011, PHilMech enhanced and further improved the quality of our green coffee beans. So the TuBengCoga produce won in the Kape Pilipino. We are in the top 10)".

Ms. Dominga Mangue of the Sagada Coffee Growers and Producers' Organization added: "Thank you PHilMech for making us move forward. We are very proud of you.

In behalf of the organization, we thank you very,very much."

Mrs. Vilma Joson, founder and president of the Kababaihang Masigla ng Nueva Ecija shared her association's experience in the use of the Multi-commodity Solar Tunnel Dryer (MCSTD) of PHilMech: "...Sa paggamit namin ng MCSTD, naging mabilis at malinis ang pagtutuyo ng

studying in private schools will be financially hard-up)."

Licensed manufacturer, Engr. Cesar Macalinao said, "I've learned so much from my partnership with PHilMech... I hope that in the coming years, Design 360° will always be part of the advancement of women processors, farmers and cooperatives assisted by PHilMech".

**"Kung hindi po sa PHilMech, wala po ako ngayon dito, wala po akong negosyo..."**

Mr. Gadmer Layson

The rice technology adopters, coffee processors, MCSTD-based

aming produkto, nakakaipon kami ng paninda... (With the use of MCSTD, we dry our products faster and cleaner. We can also collect our products for sale)."

Mr. Gadmer Layson, soybean grower and processor, said: "Kung hindi po sa PHilMech, wala po ako ngayon dito, wala po akong negosyo, at possible yung tatlong anak ko na nasa private school posibleng kapusin sa gastos... (Without PHilMech, I am not here today. I have no business and my three children

entrepreneurs, soybean processors and licensed manufacturer -- they are just among the groups of people whose lives PHilMech touched through the technologies and knowledge systems it generated and extended through the years. Whether PHilMech has been successful or not is shown in the voices and hope and gratitude these people shared with the rest of the industry stakeholders.







# FORTY YEARS AND BEYOND







“Having a place to go  
is a **HOME**.  
Having someone to love  
is a **FAMILY**.  
Having both  
is a **BLESSING**.”

-DONNA HEDGES



## COVER STORY



# PHILMECH IS NOW IMS CERTIFIED



BY NORMITA A. PASALO AND ZHALIMAR J. BARZA

**T**he Philippine Center for Postharvest Development and Mechanization did it. It has successfully completed the requirements of three international standards.

The Integrated Management System (IMS) Certification covers three areas namely: ISO 9001:2015 Quality Management System, ISO 14001:2015 Environment Management System, and OHSAS 18001:2007 Occupational Health and Safety Management System.

Last March 22-23, 2018, the Russian Register conducted an External Audit at PhilMech, the last phase for the initial certification for IMS. It was a test of PhilMech's commitment to a long process of establishing procedures, standards and compliance to Quality.



Environment, Health and Safety guidelines. PHilMech passed the said audit with few minor areas for improvement.

Looking back, everyone shared the desire for a positive outcome. Series of consultations, awareness seminars and workshops on quality, safety and environment were conducted to prepare and guide the management and staff on how to best align and match the distinct and similar procedures of different divisions to meet the IMS standard.

Finally, during the celebration of the 40th Anniversary of PHilMech on May

agencies, the local media, members of different farmers' organizations and various clients and stakeholders of PHilMech.

Dr. Jallorina said, "We have upgraded our facilities to be able to respond to the changing times and the manner how we deliver our service in order to meet the International Standards on Quality, Occupational Safety and Environmental management and the many challenges that the certification will bring..."

One of the major challenges for the smooth implementation of IMS is

**"We have upgraded our facilities to be able to respond to the changing times and the manner how we deliver our service in order to meet the International Standards."**

Director Baldwin G. Jallorina

22, 2018, the awarding of the highly respected IMS Certificate added significance and meaning to the celebration.

PHilMech Director Dr. Baldwin G. Jallorina, Deputy Director Raul R. Paz and the Integrated Management Representative Dr. Normita A. Pasalo, accepted the award given by the Russian Register Representative Mr. Paolo Joselito D. Delirio.

This great milestone was witnessed by PHilMech management and staff, guests from different government

to ensure that needed manpower resources and financial requirements are allocated.

The IMS Certification is just a beginning of a long journey of commitment towards achieving PHilMech's Quality, Environment, Health and Safety objectives. The PHilMech will continue to apply the standards in all its programs, projects and activities and will continue to provide continual training and education to all employees to raise awareness and increase the practice of IMS.



## **PHILMECH**

# **IMS CHAMPIONS**

**Dr. Baldwin G. Jallorina**

IMS Chairman

**Dr. Normita A. Pasalo**

Integrated Management Representative (IMR)

**Ms. Olivia L. Cancer**

IMS Champion/ Deputy IMR

**Ms. Zhalimar J. Barza**

Document Control Champion

**Ms. Eleine S. Corpuz**

Emergency Response Champion  
Occupational Health and Safety Officer

**Mr. Joel V. Dator**

Internal Audit Champion

**Engr. Edgar B. Testa**

Environment Champion  
Legal Requirement Champion  
Pollution Control Officer

**Engr. Edgar D. Flores**

**Engr. Reynaldo P. Gregorio**  
Monitoring and Measurement Champion

**Ms. Jane A. Foronda**

Training Champion

In line with the 40th founding anniversary of the Philippine Center for Postharvest Development and Mechanization (PHilMech), the Applied Communication Division (ACD) of PHilMech launched a coffee-table book entitled "XL Stories of Technology Adoption".

The event was held on May 22, 2018 at the newly inaugurated building of the Technology Management and Demonstration Center. The book featured the agribusiness enterprises, farmer's organizations and cooperatives that have been successful in using the technologies and systems PHilMech has generated over the past 40 years.

Forty technology adopters were documented and their stories were compiled into a coffee-table book. The agricultural tramline system (ATS), multi-commodity solar tunnel dryer (MCSTD), cashew nut processing system, soybean postharvest and processing system, coffee processing system, minimal vegetable processing system, multi-row onion seeder, high-temperature storage for onions, cacao-based fuel briquetting technology, compact corn mill, cassava digger and biomass-fed furnace are the technologies and systems featured in the book.

Dr. Milagros B. Gonzalez, supervising science research specialist and one of the editors-in-chief of the coffee-table book, expressed her heartfelt gratitude to all the adopters who have shared their stories of inspiration. "May this book send messages of hope and inspiration to our farmers and entrepreneurs to adopt technologies and systems



OIC-Regional Executive Director (Region III) Roy M. Abaya receives a complimentary copy of the CTB from Director Jallorina.

## PHilMech launches first coffee-table book

which will benefit them. May it also motivate and inspire PHilMech to exert more efforts in providing innovations and systems that would transform the future of Philippine agriculture."

These stories of adoption were also packaged into a video documentary entitled "Bringing Smiles to our Technology Adopters" which was presented during the *Tekno-Talakayan* in the PHilMech Training Hall.

Dr. Rodolfo P. Estigoy, chief of the ACD and also one of the editors-in-chief of the coffee-table book,

also shared that this communication project is in keeping with PHilMech's vision to be a premier center for postharvest and mechanization development for a globally competitive and sustainable agriculture and fishery sectors.

**by Modesto L. Jose**



## Impeller rice mill now ready for commercialization

**T**he signing for commercialization of the Impeller Rice Huller was held at the Philippine Center for Postharvest Development and Mechanization (PHilMech) compound, Science City of Muñoz on May 22, 2018 during the industry day program of the agency's 40th anniversary.

Department of Agriculture RFO 3 Executive Director Roy M. Abaya together with PHilMech MANCOM members graced in the opening

of the exhibit. Headed by Dr. Michael Gragasin of the Enterprise Development Division (EDD) and PHilMech's Director IV, Dr. Baldwin Jallorina, the signing for commercialization of the technology was held. The ACT Machineries and Metalcraft Corp. and Machine Systems Corporation were the licensed manufacturers of the technology.

According to Dr. Gragasin, the Impeller Rice Mill has a high milling recovery of 65 to 76% and it also has

high recovery of whole rice grains. The technology also separates broken and whole grains. It has the pre-cleaner which cleans the grains. The hopper is now also waist level which gives users convenience. Its elevator assembly conveys the grains to the pre-cleaner and to the rice mill.

Meanwhile, Dr. Gragasin and his team launched the Impeller Rice Mill in Bacolod with the farmers' organizations in attendance. Farmers attended the business planning formulation workshop headed by PHilMech and the Philippine Rice Research Institute (PhilRice). PHilMech also conducted a demo and taught the farmers about the repair and maintenance of the technology. The launching of the technology was a success because of the participation of the farmers' organization and the quality products farmers obtained from the technology.

The Impeller rice mill is now also engine-driven making it convenient for places without electricity. There are a lot of benefits in using the technology. Its less laborious more effective to the users. **by Pia Sarina M. Fukasawa**



*Dr. Baldwin G. Jallorina together with the representatives of the ACT Machineries and Metalcraft Corp. and Machine Systems Corporation sign the MOA on the fabrication of Impeller Huller.*

## Cooperators, manufacturers grace milestone exhibit

**M**arking its 40th anniversary, the PHilMech showcased new technologies and systems, and acknowledged technology cooperators and licensed manufacturers in the country last May 22.

Department of Agriculture OIC-Regional Executive Director (Region III) Roy M. Abaya together with the PHilMech management spearheaded the opening ceremony and ribbon cutting of the exhibit.

With the theme "In high gear to transform the future of Philippine Agriculture", Research, Extension and Training (RET) Director Dr. Fe L. Procuincla of the Central Luzon State University (CLSU), former Philippine Carabao Center (PCC) Executive Director Dr. Arnel Del Barrio, National Irrigation Administration (NIA) Division V Director Engr. Freddie M. Toquero, and Philippine Rice Research Institute (PhilRice) Executive Director Dr. Sailila E. Abdula, graced the event supporting the agency's goal in advancing the agriculture industry and its stakeholders.

Project leaders presented the significance of different postharvest and processing systems and technologies developed by the agency like the coffee, soybean, cocowater, mango pectin, and cashew processing systems. Also, new technologies were introduced including the Impeller Rice Mill, "Buriki" Moisture Meter, and Cacao Briquetting Machine.



*Engr. Arlene Coloma introduces the PHilMech-developed CVS for Mango during the anniversary exhibit.*

Anniversary exhibitors included rice technology entrepreneurs Alvin A. Mante of Bohol Rice Processing Complex (RPC) and Nestor C. Jimogon Jr. of Pototan Farmers Multi-Purpose Cooperative (PFMPC) in Iloilo; MCSTD-based entrepreneurs Vilma Joson of Kababaihang Masiglang Nueva Ecija (KMNE), Josie Castro of Bakhita Herbs and Tea, Aniceta Peter of Parista Barangay Defense System Multi-Purpose Cooperative (PBDSMPC), Janet Bersamina of Gabriela Women's Association, Rosario Greisser of Guimaras Wonders Farm, and Rebecca Tubongbanua of McNester Food Products.

Other exhibitors were Coffee processing entrepreneurs Princess Fabrigas of Fabrigas Enterprise, Shirley Palao-ay of Tuba Benguet Coffee Growers Association

(TUBengCoGA), Michelle Dela Cruz of Casile-Guinting Upland Marketing Cooperative (CGUMC), Dominga Mangue of Sagada Arabica Coffee Growers and Producers Organization (SACGPO), and Bernardino Aguisan of Boboc Bisal Organic Arabic Coffee Producers and Growers Association Inc. (BBOACPGAI); cashew processing entrepreneur Elizabeth Paglinawan of ALION SEA-K Association; and soybean processing entrepreneurs Gadmer Layson of KKK enterprise and Leonilo Dela Cruz of Golden Beans and Grains Producers Cooperative (GBGPC).

With the conduct of this milestone exhibit, PHilMech remains true to its mandate of generating, extending, commercializing, appropriate and problem-oriented agriculture and fishery postharvest and mechanization technologies. **by Johanna Keith B. Santiago**



*Director Baldwin G. Jallorina talks about the thrust of the agency during the press briefing.*

## PHilMech 40th anniversary press briefing

In celebration of its 40th founding anniversary, PHilMech conducted a press briefing during its Industry Day on May 22, 2018 at PHilMech main office in the Science City of Muñoz, Nueva Ecija.

Dr. Baldwin G. Jallorina, Director of PHilMech discussed the plans of PHilMech regarding the postharvest and mechanization Research Development and Extension (RD&E). "Our agency is now in high gear in the conduct of research, development and extension in support to the modernization of Philippine agriculture sector and at the same time, mitigating the climate change" Dr. Jallorina said.

He also emphasized the R&D outputs of competent researchers of the agency. He enumerated the list of technologies which will soon be out in the market. "Outputs of PHilMech R&D like the Impeller Rice Mill, Onion Seeder, Fluidized Dryer and Probe Moisture Meter. These are some of the latest technologies developed by PHilMech experts ready for commercialization" Dr. Jallorina added.

The press briefing was attended by various media outfits at the regional and national level Ms. Camille Nagaño of Philippine Information Agency (PIA), Janine S. Reyes and Angelo G. Mendoza of TV48, Augusto

Alcaraz of UNTV, John Enriquez of DZAS, Edna C. Estabillo of DWAY and Cathy Cruz from DWAD participated in the briefing. **by Ruben D. De Guzman**



## PHilMech Gala Night Awarding Ceremonies:

Honoring the men and women during PHilMech's 40th milestone

**T**he Philippine Center for Postharvest Development and Mechanization (PHilMech) honored loyal and outstanding employees through an Awarding and Recognition Program held during the agency's 40th Anniversary Celebration on June 23, 2018 at the newly inaugurated Technology Management Demonstration Center (TMDC).

Mayor Nestor L. Alvarez of the Science City of Muñoz and Angeles City Mayor Edgardo L. Paminutan, concurrent President of the League of Cities of the Philippines, graced the Gala Night Awarding Ceremonies wherein 17 employees were given due recognition for their exemplary performance, unwavering commitment, and invaluable contribution towards the attainment of the Center's goals and objectives.

Service Awards were conferred to 10 employees for their loyalty and dedication. Awardees for 15 years of public service were Mr. Hernaiz G. Malanon (Science Research Specialist I) and Mr. Edgardo S. Ligisan (Computer Operator II). Engr. Danilo A. Briones, Science Research Specialist II, was recognized for 20 years of dedicated service, while Mr. Ronaldo B. Cuenca (Laboratory Aide II), Mr. Nelson C. Santiago (Senior Science Research Specialist), Mr. Roderic O. Vereña (Senior Science Research Specialist), Dr. Emelie C. Ablaza (Science Research Specialist II), and Ms. Isis Dc. Davalos (Science Research Specialist II) were commended for their 25th anniversary. Ms. Miriam A. Acda (Chief Science Research Specialist) and Mr.

Alex Q. Aquino (Administrative Aide V) were also awarded for their 35 years of allegiance to PHilMech.

Outstanding employees, who, by their performance and conduct, best excelled in the field of Research and Development, Training and Extension, and Support Services in the previous year were hailed as the agency's "2017 Natatanging Kawani". In the awarding ceremony led by Dir. Baldwin G. Jallorina, Dir. Arnel Ramir M. Apaga, and Mr. Ronaldo Sebastian R. Reyes, seven employees were honored for their meritorious accomplishments, commitment to duty, and exemplary conduct as public servant. Roster of awardees include:



1. Engr. Edgar D. Flores, Science Research Specialist II of the Socioeconomic and Policy Research Division: Natatanging Kawani for Research and Development, Junior Category.



2. Dr. Milagros B. Gonzalez, Supervising Science Research Specialist of the Applied Communication Division; Natatanging Kawani for Training and Extension, Senior Category.



3. Ms. Maria Victoria S. Tamani, Administrative Officer V of the Administrative Division: Natatanging Kawani for Support Services, Senior Category.



4. Engr. Danilo M. Gamalog, Project Development Officer I of the Enterprise Development Division: Natatanging Kawani for Training and Extension, Junior Category.



6. Ms. Rosalie C. Feliciano, Science Research Assistant of the Enterprise Development Division: Natatanging Kawani for First Level Category, Technical Support.



5. Ms. Eleine S. Corpuz, Senior Administrative Assistant I of the Administrative Division: Natatanging Kawani for Support Services, Junior Category.



7. Ms. Gretzen M. Miguel, Administrative Assistant II of the Finance Division: Natatanging Kawani for First Level Category, Administrative Support.



Dangal ng PHilMech, an accolade given to a Natatanging Kawani ng PHilMech who is an epitome of an admirable public servant adhering to and exemplifying the PHilMech corporate values of creativity, integrity, teamwork, excellence, and spirituality, was conferred to Dr. Milagros B. Gonzalez, a 2009 Palanca Awardee.

With past and present employees in attendance, the Gala Night Awarding Ceremonies also paid tribute to the former employees of the PHilMech and their significant role in the agency's history. Former PHilMech Director IV, Engr. Rex L. Bingabing, led the league of retirees who conveyed their greetings and wishes for the success of the PHilMech in its 40th year and beyond. **by Lovelle Ds. Ramos**



## Coffee quality assessment conducted in Benguet

**W**ith its goal to help the coffee farmers in the Cordilleras, the Philippine Center for Postharvest Development and Mechanization conducted a Coffee Cupping Quality Training at Bokod, Benguet on May 30-31, 2018.

The activity promoted awareness among farmers on the importance of green bean assessment and adopting proper postharvest practices to produce good quality end-products. In addition, farmers learned about the in-depth concepts of coffee cupping and Q-grading. This allowed them to experience an actual coffee cupping where they can apply their learning from the speakers.

The two-day activity was attended by 25 farmer-members of the Bobok-Bisal Organic Arabica Coffee Producers and Growers Association Incorporated. Ms. Susan Pablo of the Kalugong Mountain Cultural Village Company and Mr. Billy Ignacio of Equilibrium Intertrade Corporation served as the resource speakers during the technical and hands-on training.

"For you to be able to sell your coffee at a good price, you have to be consistent with the processing activities you adopt. The price is not always the same value and mostly depends on the quality and characteristics of the coffee," said Ignacio.

Billy Ignacio, 32, a Certified Q and R grader from Baguio City, said that with today's demand for good coffee, enough knowledge on processing their produce from bean to cup is an essential factor to be a competitive player in the market.

*"Malaking tulong ito sa amin kasi nalaman namin na may epekto pala yung mga defective beans kapag hindi naalis during sorting (This training has benefitted us a lot because we learned new things like unremoved defects on beans can produce negative effect to our*

products)," said Mrs. Concepcion Macli-ing when asked about the impact of the activity to the organization.

The activity was done through the project "Utilization and Promotion of Developed Postharvest Technologies for Sustainable Community-Based Coffee Processing Enterprises" funded by the Bureau of Agricultural Research and implemented by the Enterprise Development Division-Enterprise Capability Enhancement Section. **by Ivy V. Villanueva**



Participants are doing coffee cupping during the training held in Bokod, Benguet.



### THE IMS POLICY

PHILMECH is mandated to generate, extend and commercialize appropriate and problem-oriented agriculture and fishery postharvest and mechanization technologies *through a quality management system, environment protection while being concerned with the safety and well-being of its employees.*

### PHILMECH COMMITMENT

- ☒ Apply the Quality (ISO 9001:2015), Environment (ISO 14001:2015) and Occupational Health and Safety (OHSAS 18001:2007) Management Systems to all its programs, projects and activities (PPAs).
- ☒ Provide continual training and education to all employees to raise awareness and increase the practice of Quality, Environment, Health and Safety management systems.
- ☒ Comply with Quality, Environment, Health and Safety guidelines and standard operating procedures, including local and national legislations.
- ☒ Promote Quality, Environment, Health and Safety management systems and highlight their importance to all its PPAs.



### QUALITY, ENVIRONMENT, HEALTH AND SAFETY OBJECTIVES



70% client satisfaction to achieve through client feedback survey



Zero (0%) accident and zero loss time due to accident or injury



10% increase in staff training and development programs



5% decrease in paper, water and power usages



5% increase in recycling rate through sorting and recycling of wastes continuously





**BIODEGRADABLE**  
(Nabubulok)



FOOD SCRAPS AND LEFTOVERS (meat, fish, fruits, vegetables, shells, bones, pasta, rice, eggshells, bread, grains, etc.)



PLANT BIOMASS (dried leaves, grass, weeds, wood scraps, etc.)

**RECYCLABLE**  
(Nareresiklo)



PAPERS AND CARTONS (bond papers, newspapers, boxes, cardboard)



PLASTIC

**NON-RECYCLABLE**  
(Di-nareresiklo)

### Observing Proper Waste Disposal

These women employees of PHilMech carefully practice proper waste disposal inside PHilMech compound.



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