



# 2017

## MILESTONES

Quality Rice. Quality Life.





# 2017

## MILESTONES





## MILESTONES 2017

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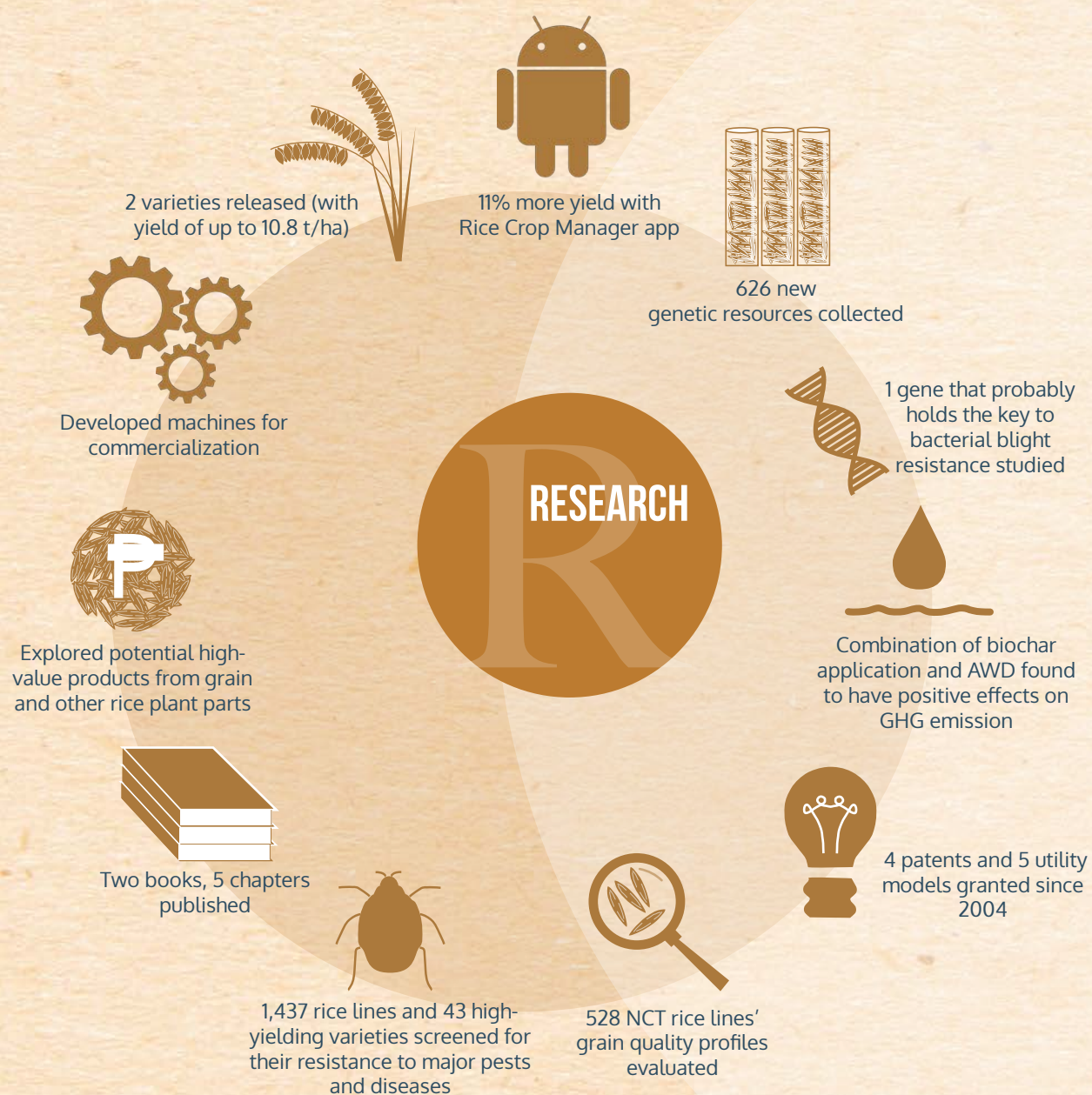
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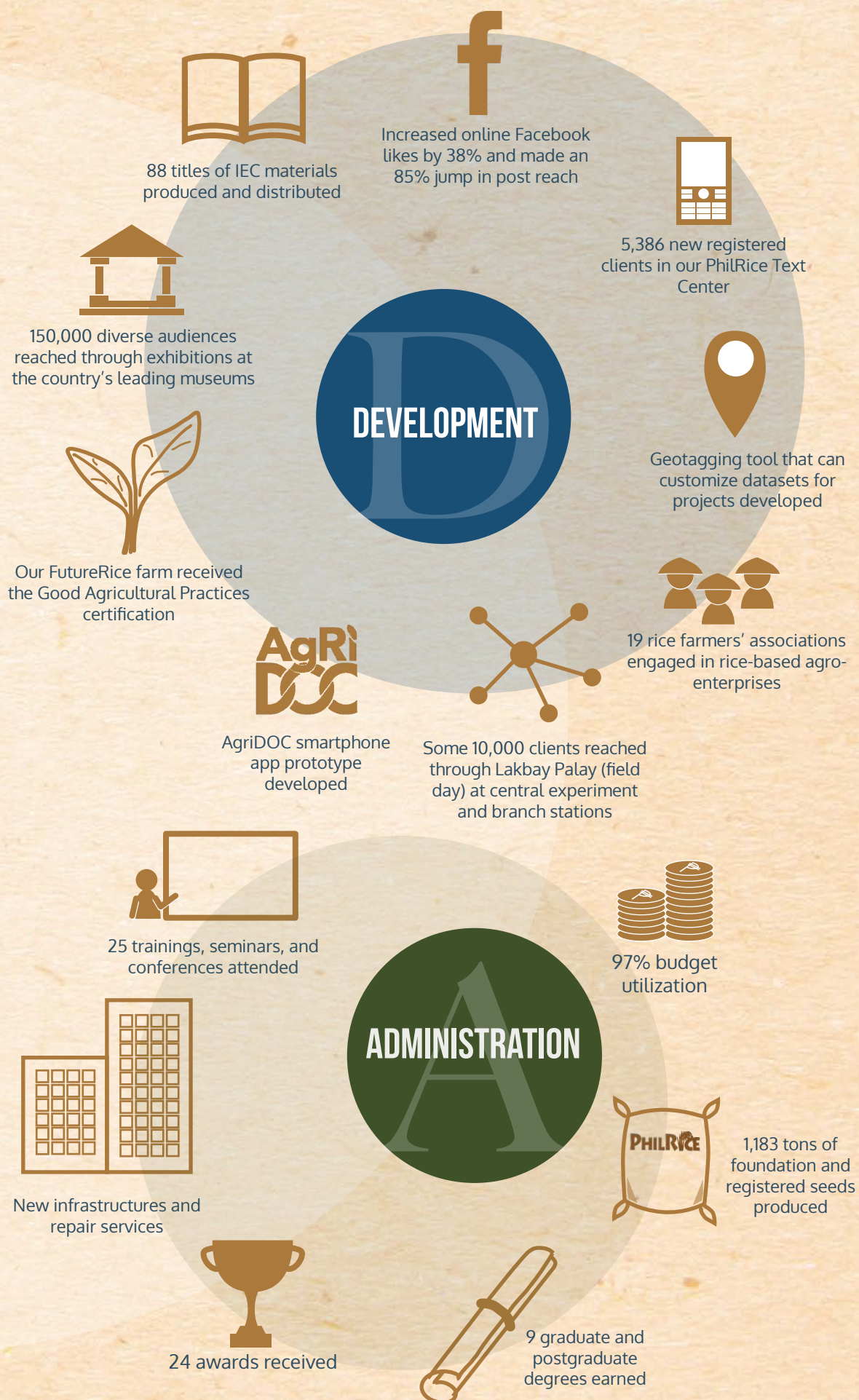




# SIGNIFICANT ACCOMPLISHMENTS IN 2017













# TRAILBLAZING THE NEW ROADMAP



Our first steps to fulfilling the goals we set in our Strategic Plan 2017-2022 have already been taken. Different sets of agenda were identified in that plan, but in a more simplistic view, the core of our end goal never changed: we always work to help uplift the lives of our rice farmers.

While working, our thoughts are never separated from the perplexing scenarios in rice farming. Combatting the effects of climate change, improving competitiveness, and adapting to biotic stresses for rice are just some of the myriad challenges that weigh heavy on the minds of our researchers and development workers. No matter how daunting these may be, we will never stop committing ourselves to fulfilling our mandate.

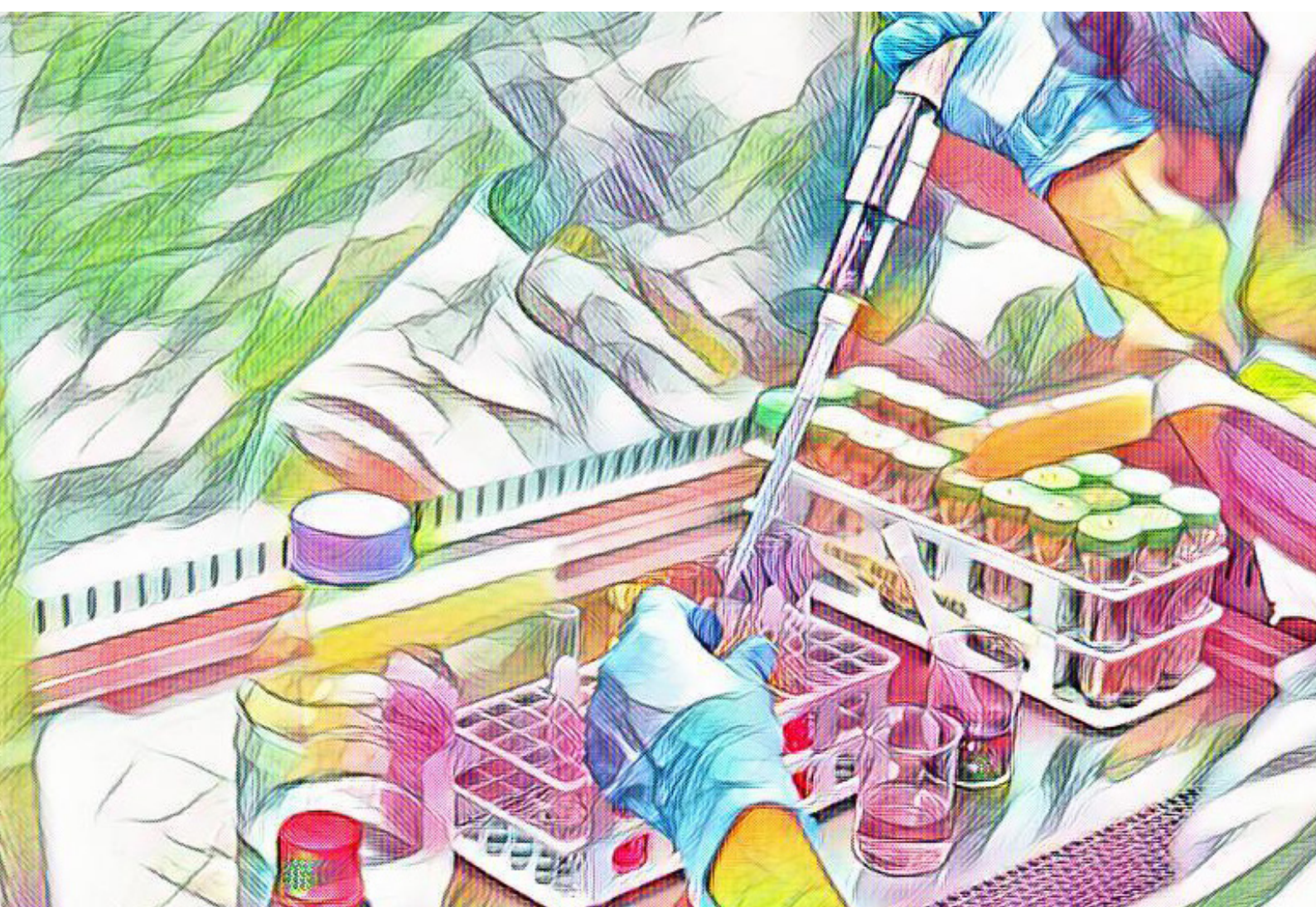
This publication, which was made more concise and straightforward, highlights what had materialized in the trail we blazed. Some of what transpired are:

- 13 rice varieties approved by National Seed Industry Council (NSIC) for commercial production, including two varieties bred by PhilRice;
- Machines ready for commercialization developed;
- Process for capturing digital green color index for the android Leaf Color Chart (LCC) developed;
- Some 10,000 farmers, students, and extension workers reached through field days;
- 88 knowledge products on rice and rice-related topics produced.
- Infrastructure construction and repairs completed across stations
- 24 peer recognitions received
- Nine new MS and PhD graduates

We do not claim full credit for all these accomplishments for they could not have been achieved without our stakeholders. Similarly, we encourage all our stakeholders to have a look at this report and let us know what you think about how we set the first stones of our roadmap for impact. We anticipate more achievements in the coming years in the hope that we would hold hands together at the end of the trail while looking back at how we started.

**SAILILA E. ABDULA, PhD**  
Acting Executive Director









Research





# PLANT BREEDING AND BIOTECHNOLOGY DIVISION

ZENNY G. AWING

## WE BRED VARIETIES THAT WOULD HELP FARMERS ADAPT TO AGRICULTURAL, ENVIRONMENTAL, AND ECONOMIC CHANGES.

- Released two new varieties NSIC 2017 Rc 31SR (glutinous) and Rc 482SR (Japonica). Rc 31SR matures in 124 days, averages 4.7 t/ha with a potential of 10.8 t/ha; Rc 482SR averages 3.5 t/ha, but can yield up to 6.8 t/ha and be harvested in 117 days.
- Developed an early-maturing promising line from the observational nursery with a yield of 5.2 t/ha. Meanwhile, four promising lines from the general yield trials, with yields ranging from 7.17 t/ha to 7.46 t/ha, were selected during dry season (DS, hereafter) and five promising entries with yields from 6.10 t/ha to 6.82 t/ha during wet season (WS, hereafter).
- Elevated three heat-tolerant lines to the National Cooperative Tests (NCT) while two saline-tolerant lines were recommended to the technical secretariat.
- Nominated two aromatic and two zinc-dense elite lines to NCT; the former yielded 5.4 t/ha and 6.4 t/ha while the latter yielded 6.2 t/ha and 7.9 t/ha with 19mg/kg grain zinc content.
- Developed two glutinous lines that yielded 5.6 and 6.3 t/ha and three advanced pigmented lines with glutinous, very soft, and intermediate eating qualities. The glutinous pigmented line is for rice cakes, while very soft and intermediate eating qualities are ideal for brown rice.



SOFIA ANNELLA G. WENCESLAO





# GENETIC RESOURCES DIVISION

JAYSON C. BERTO

**BREEDING MATERIALS START FROM GOOD AND DIVERSE GENETIC RESOURCES. WE CONSERVED AND COLLECTED 16,298 GERMLASM MATERIALS AS THEY HOLD THE FUTURE OF THE RICE INDUSTRY AND RICE SECURITY.**



MALVIN D. DULDULAO



JOSE MARIZ NOMBRE

- Collected 626 new genetic resources from local and international sources, increasing the genetic diversity in our gene bank and the probability of discovering new parent lines with novel genes.
- Found that 155 germplasm accessions have resistance to major rice diseases such as blast, sheath blight, and bacterial leaf blight while 8 accessions showed tolerance under progressive drought and fluctuating soil moisture conditions.
- Thirty-two accessions showed good milling recovery in brown rice and premium milled rice – an important finding as this trait improves the quality of rice.
- Distributed 2,055 seed packets of rice accessions to farmers and researchers.
- Improved the interface of the Germplasm Management System (GEMS) to make it more user-friendly.





# AGRONOMY, SOILS, AND PLANT PHYSIOLOGY DIVISION

ANNIE E. ESPIRITU

## WE DEVELOPED BEST FARM MANAGEMENT PRACTICES TO HELP FARMERS OPTIMIZE COSTS AND INCREASE EFFICIENCY.

- Pilot-tested the sensor-based tool for nitrogen application of the Oklahoma State University. This device, which is as efficient as the fixed-rate N application method, will be used in developing a fertilizer guide for rice farmers.
- Upgraded our four-stripped “ruler” called Leaf Color Chart Process to a mobile application; developed the process for capturing the dark green color index from digital leaf images and optimized the resolution for the minimum camera of android phones.
- Improved nutrient management recommendations based on the site-specific nutrient management employed in the cropping system trial sites in Balungao, Pangasinan (corn-rice-rice) and Talavera, Nueva Ecija (onion-rice), which generated a return on investment advantage of 21.09% and 55.80%, respectively, over the farmer’s practice.
- Found that NSIC Rc 282, Rc 222, Rc 418 produce higher grain yields by up to 20.5% under 20-day drought conditions during the vegetative and reproductive stages with the application of 120-40-120 kg NPK/ha than those applied with 120-40-60 kp NPK/ha only.
- The use of alternate wetting and drying (AWD) in combination with LCC-based N application

increased water-use efficiency and grain yield of selected high-yielding rice varieties

- Rice Crop Manager, an ICT-based personalized farm guide, contributed to 10.87% more yield than farmers’ practices in six sites through its nutrient management recommendations.
- Continued long-term studies on nutrient management and found that: among the inorganic NPK treatments, site-specific nutrient management +NPK (includes LCC-based N management +PK and fixed-time application of NPK) obtained the highest yield and agronomic efficiency of applied N (AEN); indigenous N-supplying capacity of the soil of the study site is still high at 65 kg N/ha/crop; and trends on comparable yields from organically and inorganically grown rice have been observed every three years but only in wet seasons.



JUVY JANE E. AUNGON





## CROP PROTECTION DIVISION

RACHELLE MARIE S. MARTIN

**WE SCREENED RICE MATERIALS FOR DISEASE AND PEST RESISTANCE; INVESTIGATED THE BIOLOGY AND ECOLOGY OF PESTS; EVALUATED AND OPTIMIZED FOSSIL FUEL-FREE RICE PEST MANAGEMENT STRATEGIES AND TECHNIQUES; AND ASSESSED THE FUNCTIONAL ROLE OF BIOCONTROL AGENTS IN REDUCING PEST DAMAGE TO RICE PLANTS.**

- Screened 1,437 rice lines and 43 high-yielding varieties for their resistance to major pests and diseases; 53 genebank accessions were characterized, 7 of which exhibited resistance against 20 different blast isolates.
- Found that Cypermethrin was the most effective insecticide among chlorpyrifos and diazinon against the rice grain bug under screenhouse conditions.
- Observed variations in the DNA profiles of *Magnaporthea grisea* (rice blast fungus) isolates collected from different geographical locations in the country. These variations can help add insights in developing varieties resistant to different *M. grisea* physiological races.
- Evaluated JICA and KOPIA light traps' efficiency in monitoring arthropods and found that JICA light trap collected more diverse arthropods; both types have comparable efficiency in trapping stemborer moths.
- Laboratory and screenhouse tests showed that 52 weedy rice biotypes collected in Central Mindanao matured earlier and had better agronomic characteristics than cultivated rice NSIC Rc 222.
- Identified 66 epiphytic fungi isolated from rice leaves and evaluated their inhibitory actions against *Pyricularia grisea*; 20 isolates were effective, with Tat2 (88.03%) and Tat28 (83.25%) having the highest inhibitory effects.
- Tested two *Trichoderma harzianum* isolates as biocontrol agents against *M. grisea*, *Sarocladium oryzae*, and *Bipolaris oryzae*; their spore suspensions controlled brown spot, sheath rot, and rice blast when used either as soaking medium for rice seeds or as foliar spray.
- Developed Weed App, a mobile application used to identify and manage weeds. Its end users will be farmers, students, and extension workers.
- Studied the effects of different techniques in preserving the morphological and physiological integrity of microbial cultures to ensure their safe storage. Part of the results showed the importance of Microbank™, a commercial cryopreservation tube, in storing our bacterial species collection, as well as the use of sterile filter paper in maintaining the viability and physiological traits of spore-forming fungal species.
- Developed Loop-Mediated Isothermal Amplification (LAMP), a technique to detect rice viruses in rice plants and insect vectors. This technology was introduced to the Regional Crop Protection Centers of the DA through training and hands-on exercises.





# RICE CHEMISTRY AND FOOD SCIENCE DIVISION

CARLO G. DACUMOS

**WE ASSISTED BREEDING ACTIVITIES AND GERMLASM CONSERVATION THROUGH GRAIN QUALITY AND PHYTOCHEMICAL TESTING; STUDIED MARKET ON RICE-BASED FOOD PRODUCTS; DEVELOPED PRODUCTS AND ENHANCED CAPACITY OF FARMERS; AND CONDUCTED FOOD SCIENCE AND NUTRITION RESEARCH ON RICE AND RICE-BASED CROPS.**



- Evaluated the grain quality profiles of 528 NCT advanced rice lines to help facilitate release of 13 varieties in 2017 (10 hybrid, 3 special-purpose); 644 early generation and pre-NCT lines were profiled for their grain quality, antioxidant properties, and other physical characteristics.
- Surveyed consumer preferences on raw and cooked rice qualities in rainfed and saline areas in North and Central Luzon; majority preferred long and slender raw rice, and aromatic and soft-textured cooked rice. This study can facilitate the location-specific release of varieties with grain quality as a major criterion.
- Identified top 10 traditional varieties as potential sources of antioxidants that can be explored for their possible medicinal properties. This was done through profiling pigmented rice germplasms stored in our genebank.
- Conducted market study on rice-based food products in Central Luzon; consumers generally prefer bakery products and those that are convenient, nutritious, and healthy. This can guide food product development and value-adding in rice.
- Developed the brown rice cracker-ice cream sandwich, which proved to have high market potential.
- Trained farmers' groups to prepare rice and rice-based food products as potential extra sources of income, in partnership with other agencies.
- Found that frying and far-infrared radiation (FIR) drying bring out the highest level of phytochemicals and antioxidants in eggplant. This study can guide policies on nutritional interventions.





# RICE ENGINEERING AND MECHANIZATION DIVISION

RICE ENGINEERING AND MECHANIZATION DIVISION

**WE DEVELOPED, TESTED, AND PROMOTED FARM MACHINES TO FACILITATE OUR FARMERS' OPERATIONS AND LIFT THEIR PRODUCTIVITY.**



- Ensured that the commercialized farm machines we developed remain in demand in the market. These are the seed cleaner, flourmill, micromill, village-type brown rice machine, microtiller, plastic drumseeder, gasifier stove, and the reversible dryer.
- Promoted to target end-users, through our branch stations, the flourmill, micromill, village-model brown rice machine, microtiller, rototiller, and riding leveler attachment.
- Pilot-tested the rice hull gasifier-engine pump system, riding-type transplanter, infrared dryer, brown rice machine (village model and pedal-type), multipurpose seeder, and reduced-till planter.
- Developed and tested the power tiller with gear transmission and motor-driven brown rice machine prototypes as well as the stripper combine harvester and riding boat tiller.
- Produced bulletins, brochures, and leaflets to promote our technologies; drafted the REMD Machinery Book and the manual on using the plastic drumseeder.
- Renewed the license of one local manufacturer of farm machines and accredited three new companies.
- Thirteen engineers benefitted from the training “Strengthening the Capacity to Design Agricultural Machines: Finite Element Analysis (Structural Analysis, Heat Transfer, Fatigue Analysis, and Computational Fluid Dynamics),” with Dr. Christian Della from the University of Glasgow, Singapore as resource person.





# RESEARCH PROGRAMS

## HYBRID RICE PROGRAM

FOR BOUNTIFUL HARVESTS, WE DEVELOPED CYTOPLASMIC MALE-STERILE (CMS) THREE-LINE AND THERMO-SENSITIVE GENETIC MALE-STERILE (TGMS) TWO-LINE HYBRIDS.

- Nominated four 3-line hybrids to the NCT 2017 wet season; identified 20 potential restorer and three maintainer lines with high yield, and one CMS line with 100% sterility and good flowering behavior. One restorer line was resistant and moderately resistant to most insect pests and diseases.
- Two 2-line hybrids are now in the NCT; developed five new TGMS lines and tested them for their combining ability.
- Sustained adequate supply of genetically pure and high-quality nucleus and breeder seeds of M1 and M20 to support hybrid rice commercialization. We also characterized and established genetic purity and identity of M32 and M73 parental lines.
- Found that bagging of S-line panicles might be a potential alternative to the use of control plot in TGMS hybrid seed certification. If further supported by other studies, this alternative can facilitate a more convenient seed production due to smaller space needed.

## COPING WITH CLIMATE CHANGE PROGRAM

WE DOCUMENTED THE EFFECTS OF CLIMATE CHANGE ON THE RICE ENVIRONMENT.

- Studied the effects of exposing brown planthopper (BPH) and its predator *Cyrtorhinus sp.* to a 2 °C increase in ambient temperature for seven days, which killed all BPH and 70% of the predator.
- Explored the use of growing degree-day (GDD) as an accurate basis for expressing the rice crop's phenological stages and as an alternative to the use of number of days from seeding or transplanting.
- Found that the energy input of transplanted rice is higher than direct-seeded, and the energy output of direct seeding is higher than transplanting.
- Constructed an improved prototype of the “kwebo”, now being used as shelter for paddy dryer, farm machines, seeds, fertilizers, and other farm inputs during strong typhoons. We are developing a second-generation riding-type mini-tractor expected to be more versatile than the existing hand/small 4W tractors.
- Tested the “capillarigation” system together with the known hose and drip irrigation systems, and found that the innovation was more efficient in utilizing limited water supply.
- Our biochar application and alternate wetting and drying (AWD) showed positive combined effects on soil quality, greenhouse gas (GHG) emissions, and grain yields.
- Deployed CtRH carbonizers with attachments for pasteurizing mushroom fruiting bags in support of livelihood projects of six farmer associations in Nueva Ecija, Bulacan, Aurora, Pampanga, and Pangasinan.
- Found that higher income can be gained by increasing duck population from the conventional 125 heads/ha to 500-1000 heads/ha and by integrating azolla as supplemental source of feeds for the ducks and nutrients for the plants.



ALPHA GRACE S. FERRIOL



## HIGH-VALUE PRODUCTS FROM RICE AND ITS ENVIRONMENT PROGRAM

WE EXPLORED VALUE-ADDING SYSTEMS IN RICE AND ITS ENVIRONMENT TO HELP INCREASE THE INCOME AND IMPROVE THE NUTRITIONAL STATUS OF RICE-FARMING COMMUNITIES. THE PROGRAM FOCUSED ON HIGH-VALUE RICE GRAIN/PRODUCTS FROM IT AND OTHER PARTS OF THE RICE PLANT; AND ON BENEFICIAL ORGANISMS IN THE RICE ENVIRONMENT.

- Developed healthy and nutritious gamma-aminobutyric acid (GABA) rice from local rices for potential applications to food and pharmaceutical industries.
- Evaluated corn and adlai in the preparation of ready-to-eat nutrient-rich rice blends and blended products with high consumer acceptability.
- Optimized the production of low-protein rice intended for individuals who need a restricted-protein diet like those with chronic kidney disease.
- Developed pre- and post-harvest management options for aromatic and organic rices.
- Encapsulated antioxidants from pigmented rice bran.
- Examined the potentials of rice and bran as sources of prebiotic components, resistant starch, and dietary fiber.
- Utilized nanotechnology in the production of cellulose acetate from rice straw, which can be used as an excellent and cheap source of membranes for nano-remediation of heavy metals and pesticide residues in the soil.
- Determined the effects of blue-green algae, *Anabaena variabilis*, biofertilizer on the agronomic characteristics, yield, and nitrogen content of rice.
- Examined the potentials of five bacteria as microbial inoculants for improving yield of rice.
- Found that introduction of sufficient amounts of edible blue-green algae, *Nostoc commune*, in any soil type that is shallowly tilled, applied with minimal amounts of chemical farm inputs, and situated near a water source, will support its growth for possible mass production as a potential source of food.



SOFIA ANNELLA G. WENCESLAO

## CROP BIOTECHNOLOGY CENTER

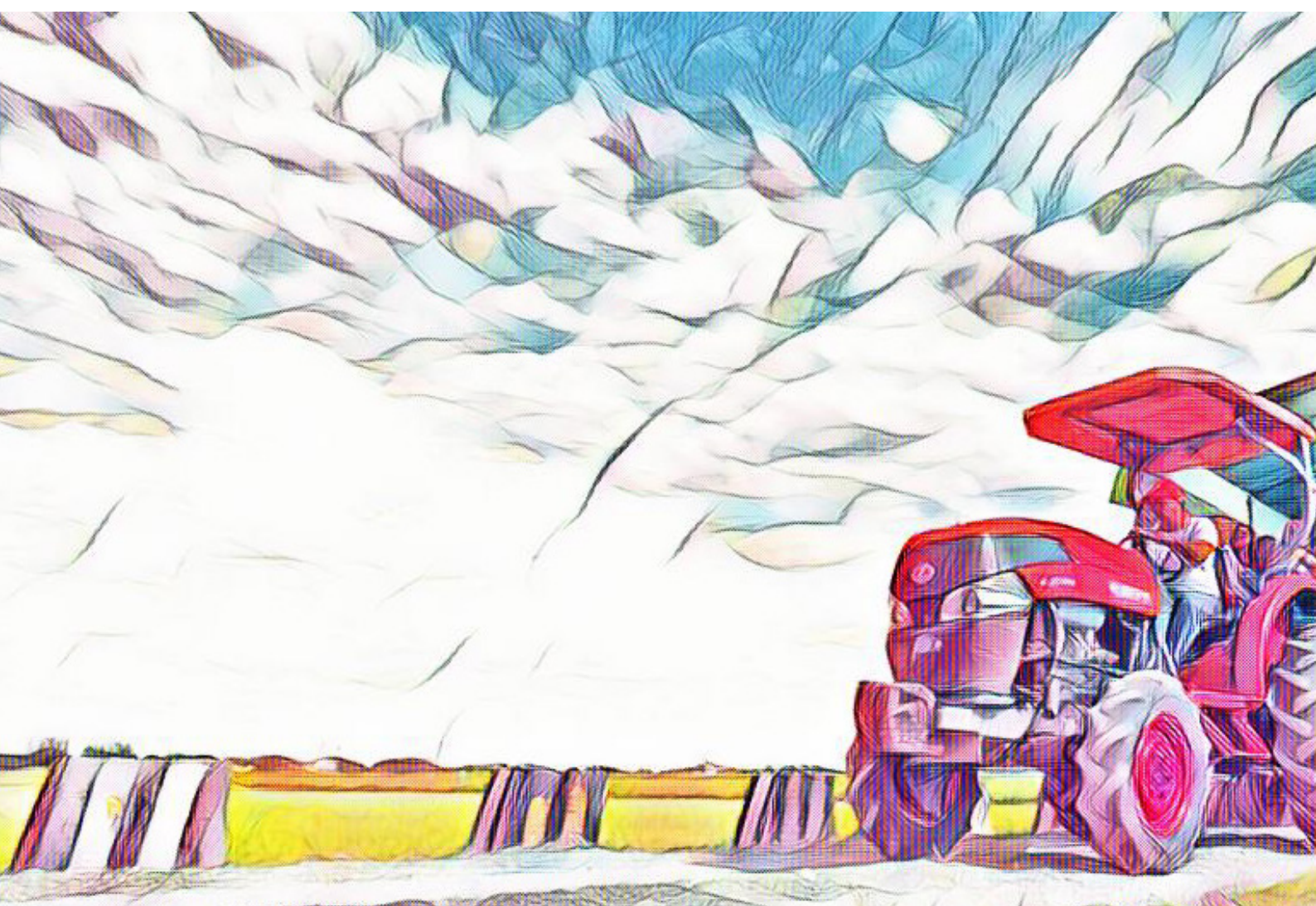
WE USED BIOTECHNOLOGY FOR GENETIC DISCOVERY THAT HELPS ADVANCE RICE SCIENCE.

- Tested lines that survived drought conditions and yielded 2.20 to 2.91 t/ha in PhilRice Isabela and Negros. Check varieties NSIC Rc 222 and Rc 160 only yielded 0.76 t/ha and 1.86 t/ha, respectively.
- Found that the published gene OsSweet14 probably holds the key to the bacterial leaf blight (BLB) resistance of MSL 37 and 40, which are sister mutant lines derived from NSIC Rc 144. Unlike the original Rc 144, they have short leaf lesions enabling them to survive BLB infections. Their yields were comparable with Rc 144, and better than the variety under BLB pressure.



STEVE MATTHEW H. SAJONIA









Development





# DEVELOPMENT COMMUNICATION DIVISION

CARLO G. DACUMOS

**WE ENSURED THAT THE TECHNOLOGIES AND SERVICES WE DEVELOP AND OFFER REACH OUR INTENDED CLIENTS THROUGH STRATEGIC USE OF COMMUNICATION.**

- Produced and distributed 88 titles of IEC materials, such as magazines, handouts, bulletins, posters, videos, infographics, etc. on rice and rice-related topics to a wide range of rice stakeholders, particularly the farmers, students, extension workers, and researchers. These KPs are available and accessible online at [www.pinoyrice.com](http://www.pinoyrice.com).
- Published more than 80 stories (news and feature) on our corporate website. Based on the mediameter, the online stories were picked up 615 times by

Business Mirror, Manila Bulletin, and Philippine Star. The estimated PR value of the picked up stories is more than P190 M. These data indicate that the website is an effective platform for technology promotion.

- Maintained our PhilRice Text Center (PTC) and responded to an average of 5,224 text messages every month (roughly 212 texts a day) with a one-hour maximum response time. Additional 5,386 clients registered this year, a 47% increase from the 2016 data (11,530 registrants). From the total 42,356 PTC-registered clients, 48.30% are farmers; 30.18% students; and 8.42% extension workers.
- Boosted our social media presence, particularly on Facebook, at 38% increase in page likes and 84.5% jump in post reach by unique users with 80 to 100% response rate to direct queries. This result can be attributed to more frequent posting, strategic time of posting, and use of multimedia in packaging content such as photos, videos, event highlights, and news stories.
- Prepared and distributed 51 broadcast releases on various rice topics to communication officers from DA, ATI, and private media partners, and were broadcasted 153 times. We also maintained weekly radio segments (featuring rice technologies and services) with DWAY 1332 Sonshine Radio, Radyo Natin Malita DXSA, DZTC 828, and RW 95.1, which cover Pampanga, Pangasinan, Tarlac, Isabela, Nueva Ecija, Aurora, Davao Occidental, Davao del Sur, Davao Oriental, and Sarangani provinces.
- Promoting responsible rice consumption and healthy diet through brown rice consumption, the Be RICEponsible Campaign reached 53,569,020 Filipinos through quad-media, efforts of campaign partners, and support of DA, its regional field offices, bureaus, and attached agencies.



CARLO G. DACUMOS



# TECHNOLOGY MANAGEMENT AND SERVICES DIVISION

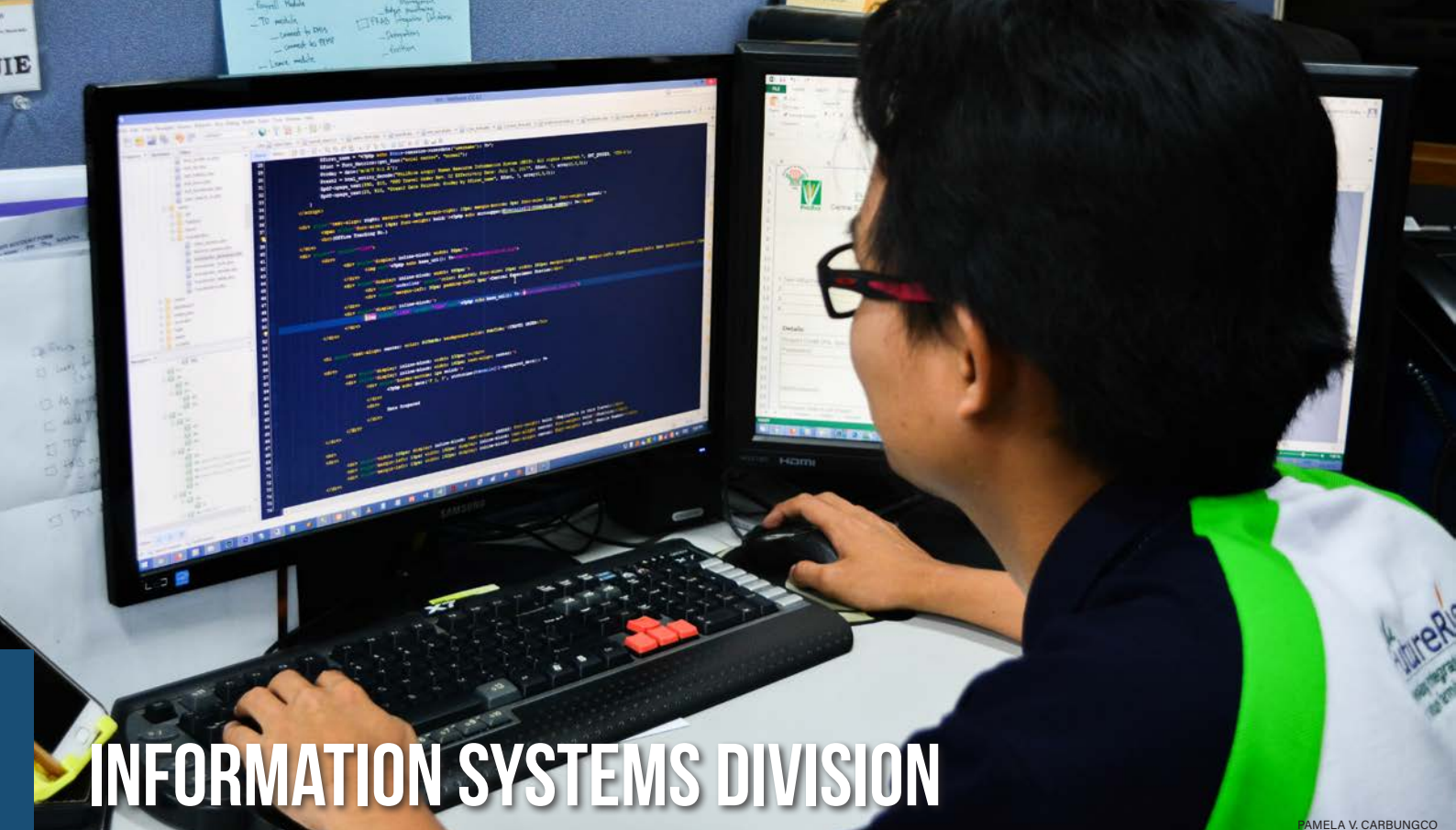
RENZ ROMYL C. DE JOYA

**TO HELP RAISE THE PRODUCTIVITY AND INCOME OF OUR RICE FARMERS, WE PROMOTED HIGH-IMPACT RICE AND RICE-BASED TECHNOLOGIES THROUGH SCIENCE-BASED TRAINING AND TECHNOLOGY PROMOTION MODELS. WE ALSO ENERGIZED THE CAPACITIES OF AGRICULTURAL EXTENSION WORKERS (AEW) AND OTHER DEVELOPMENT CATALYSTS FROM THE GOVERNMENT AND PRIVATE SECTORS THROUGH OUR TRAINING COURSES AND RICE SCIENCE AND TECHNOLOGY UPDATES.**



- Trained 582 rice stakeholders, particularly farmers (382), students (56), AEWs (77), and legislators and private company personnel (67).
- Reached out to 4,907 farmers and AEWs through the two-season Lakbay Palay field days. The use of musical play as an innovation to introduce the hybrid rice technology received a very positive feedback.
- Traced graduates of the rice specialists' training courses and found that their knowledge on rice and rice-based technologies, presentation, facilitation, decision-making skills, and confidence in performing their jobs had grown. From 2008 to 2017, the course graduates reached and trained 29,211 farmers, AEWs, and other rice stakeholders.
- Trained 35 seed specialists and extension agronomists from African countries, a breeder from Afghanistan, and 18 AEWs from the PH on rice seed production through a JICA-IRRI project that supports the rice sector of Sub-Saharan Africa.
- Promoted the use of public hybrid rice through training and technology demonstrations. A total of 28 demonstration fields were established and 1,344 R4D workers, farmers, seed growers, and seed inspectors were trained.





PAMELA V. CARBUNGO

**WE CHARTED THE CENTRAL DIRECTION AND PROVIDED LEADERSHIP IN NETWORK INFRASTRUCTURE, GEOGRAPHIC INFORMATION SYSTEM, REMOTE SENSING ACTIVITIES, AND OTHER INFORMATION AND DATABASE SYSTEMS DEVELOPMENT TO DELIVER MORE STABLE, ACCURATE, AND TIMELY INFORMATION SUPPORT.**

- Developed a geotagging tool to customize datasets to fit any project in collecting real-time geotagged data using web and mobile technologies. The user can now create the project profile and dataset online, download the customized mobile e-forms apps for installation, and use them to collect and send field data with geolocation to the central server. The data collected can be extracted from the mobile device in comma-separated value (CSV) file format.
- Improved the *Online Soil Information System* and the guide book called *Simplified Keys to Soil Series Identification and Management*. Six guide books were developed for the provinces of Abra, Bohol, Kalinga, Nueva Vizcaya, Oriental and Occidental Mindoro, with six additional data sets uploaded to the PhilRice Soil Information System online database.
- Increased digital library collections: 7,388 online public access catalog entries; 25,877 indexed articles; and 44,767 PDFs.
- Improved the PhilRice Database Management Portal by converting it into a portal-based information system with single sign-in capability that can accommodate several subsystems.
- Created the Knowledge-Sharing and Learning (KSL) database system where registered users can search, filter, and download KSL files through links, tables, and filters.
- Created the computerized voting application to collect data on the votes of participating clients and to generate a summary report of the survey. The application was initially used during the search for deputy executive directors.
- Improved the information systems facility and security by updating the disaster recovery plan that includes new internal and external threats, solutions, and best practices; procuring supplies and other parts needed for recovery; purchasing dedicated direct internet connections for branch stations; and upgrading bandwidth to keep pace with the increasing number of computers connected to the network.



PAMELA V. CARBUNGO





**WE GENERATED RICE AND RICE-RELATED STATISTICS; MEASURED THE IMPACTS OF RICE TECHNOLOGIES, PRODUCTS, AND SERVICES; AND CONDUCTED POLICY RESEARCH AND ADVOCACY ACTIVITIES FOR SCIENCE-BASED DECISION-MAKING, ESPECIALLY IN CRAFTING POLICIES AND RICE PROGRAMS.**



ROWENA G. MANALILI



ROY F. TABALNO

- Reached 3,184 farmers, including Cambodian and Thai farmers, through the rice-based farm household and specialty rice production surveys.
- Received 8,435 unique local and international views from the *PalayStat* website containing primary and secondary rice data; trained 187 participants on the use of the website.
- Conducted three stakeholders' fora on rice value chain analysis to facilitate understanding and appreciation of value addition from rice production to consumption.
- Conducted one policy workshop on R&D thrusts and directions in support of science-based policy in advancing rice communities.
- Conducted 27 presentations to brief stakeholders on the situation of the rice industry, rice tariffication, competitiveness, and socioeconomic matters.
- Published the book "Comparative Efficiency of Rice Farming in Asia and the Philippines"; the Rice Science for Decision Makers flyer titled "*Is Hybrid Rice Worth Investing In?*".





# DEVELOPMENT PROGRAMS

## RICE BUSINESS INNOVATIONS SYSTEM (RICEBIS) COMMUNITY PROGRAM

WE HELPED IMPROVE FARMERS' WELFARE BY PROMOTING HIGH-YIELDING AND COST-REDUCING TECHNOLOGIES AS WELL AS GOOD MARKET ACCESS.

- Some 450 farmers were reached and organized into 19 clusters nationwide, covering some 460 hectares of RiceBIS production farms.
- Boosted RiceBIS Community farmers' income through product consolidation and marketing.
- Capacitated/reoriented farmers' mindsets toward agripreneurship as well as their behaviors in terms of interpersonal relationship, organization-building, and conflict management.
- Worked with roughly 50 partner agencies and organizations in establishing and sustaining farmer clusters and their enterprises.



JAY PEE G. GUALINGCO



CINDY S. REYES



PAUL RICE PHOTO TOOK

## PALAYAMANAN PLUS PROGRAM

WE EXPLORED FARMING MODALITIES TO BOOST RICE INCOME THROUGH DIVERSIFICATION, INTENSIFICATION, AND INTEGRATION OF RICE-BASED PRODUCTION MODELS.

- Rice seed production, among the component enterprises, obtained the highest average gross earning of P130,482.00/ha with 4.55 t/ha annual average clean seed yield.
- Earned P84,734.00 from the rice-corn cropping system. The green corn biomass was used as feeds for dairy buffaloes.
- Vegetables grown on rice paddy bunds and after WS rice provided additional food, niche for beneficial insects, and earned P37,278.00.
- The rice + duck production system made an annual income of P57,900.00. The special quality rice (SQR) generated P18,750.00; the ducks gave P6,000.00 per season income.
- Earned annual income of P292,040.00 from mushroom enterprise using rice straw-based substrates.
- The rice/taro+vegetables+fish sorjan farming model grossed P39,663.00 from a 1200 m<sup>2</sup> area (62% higher than a 7 t/ha rice harvest).
- Trained members of the Kababaihang Kinikilala Ng Lungsod Agham (Maligaya Chapter) and Bantug Primary Multi-Purpose Cooperative on mushroom production.
- Developed two new rice-based food products – the rice-ice cream bread and rice-taro crinkle pre-mix – which heightened the value-adding potential of rice.





NEHEMIAH L. CABALLONG

## FUTURERICE PROGRAM

**WE RE-DESIGNED THE RICE FARM INTO AN ECOLOGICALLY VIBRANT, INNOVATIVE, AND COMPETITIVE ECONOMY.**

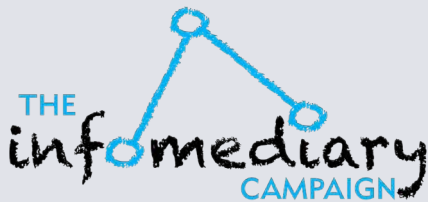
- Received the Good Agricultural Practices (GAP) certification from DA-Bureau of Agriculture and Fisheries Standards Region III for the FutureRice Farm.
- Developed and released the AgRiDOC App, a farm management smartphone application available at Google Playstore.
- Published *Agritourism Farms of the Philippines II*, a compendium of successful agritourism farms and clean, green, practical, and smart farming technologies.
- Established partnerships with Central Luzon State University (CLSU) for farm demonstrations of Zero-Waste Pig Biogas and Goat Production, and with BFAR – National Freshwater Fisheries Technology Center for aquaculture production.
- Reached approximately 5,000 foot traffic at FutureRice Farm, with prominent visitors Senator Grace Poe, DOST Secretary Fortunato Dela Peña, and Eat Bulaga's Miss Millennial.
- Generated free media mileage; FutureRice was featured in 2 national newspapers, 14 website articles, 3 radio interviews, and 5 local and national television shows.
- Showcased rice paddy art in four PhilRice branch stations and in CLSU:
  - » Midsayap – President Rodrigo R. Duterte (PRRD)
  - » CMU Field Office – PRRD and PNP Chief Ronald Dela Rosa
  - » Batac – Former President Ferdinand Marcos
  - » Agusan – Secretary Emmanuel Piñol
  - » CLSU – PRRD
- Built low-rope obstacle course, zero-waste pig, goat housing, and solar-powered smart house.
- Designed a prototype for Weed Identification App.



PHILRICE PHOTO STOCK



# CAMPAIGNS AND OTHER DEVELOPMENT INITIATIVES



**AS WE APPROACH THE COMPLETION PHASE OF OUR INITIATIVE, WE CHanneled OUR ENGAGEMENTS THROUGH THE SOCIAL MEDIA PLATFORM.**

- Produced more than 50 social memes highlighting the accomplishments of the campaign, with an average of 1,000 people reached per post on the week that they were published. Several insights on how youth should be engaged fanned online discussions among netizens.
- Launched the book titled “Communicating climate change in the rice sector”, which heavily draws insights from communication and psychology as well as the experiences of the team from its previous project with the Consultative Group on International Agricultural Research program on Climate Change, Agriculture, and Food Security. Copies of the book had been distributed to PhilRice researchers often invited to talk about climate change and rice production; development communication practitioners, students, and educators; participating Infomediary schools; and other field partners. Online copy of the book is available at the PhilRice website.



JAYSON C. BERTO

## PALAYABANGAN

**WE AIMED TO RAISE THE RICE PRODUCTION STANDARD TO 10 T/HA AT P5/KG INPUT COST.**

- There were 46 contestants during the DS; 49 for the WS, representing seed, chemical, and fertilizer companies, non-government organizations, and individual farmers.
- Found that yield is higher and production cost is lower during the dry season, with participants averaging 6 t/ha at P11.66/kg cost (CES data only). This is better than the 2016 national average of 3.87 t/ha at P12.31/kg. Inbred NSIC Rc 402 was the top performer at 8.9 t/ha with input cost of P5.96/kg, recording a profit of P98,827.35/ha.
- Achieved an average WS yield of 5.8 t/ha; best practice at 7.1 t/ha with P6.33/kg cost; profit at P75,545.70/ha. One contestant yielded 7.2 t/ha at P6.62/kg cost (CES data only).
- As the project concluded, most efficient technologies across all branch stations since it started in 2013 were identified. For dry seasons, top three technologies that performed efficiently were demonstrated by seed companies that participated in Isabela, Nueva Ecija, and Albay. Their yields and costs are 10.54 t/ha at P4.94/kg, 9.65 t/ha at P5.01/kg, and 8.37 t/ha at P6.71/kg, respectively.
- For wet seasons, top three technologies that performed efficiently were demonstrated by two seed companies and one individual from Agusan del Norte, Nueva Ecija, and Isabela. Their yields and costs are 9.22 t/ha at P6.38/kg, 6.72 t/ha at P5.60/kg, and 8.06 t/ha at P9.11/kg.

## GOLDEN RICE

**WE CARRIED OUT COMMUNICATION AND STAKEHOLDER ENGAGEMENTS IN SUPPORT OF THE GOLDEN RICE REGULATORY APPLICATIONS FOR FIELD TRIAL AS WELL AS FOR FOOD, FEED, AND PROCESSING.**

- Conducted 35 stakeholder engagement activities, such as briefings, meetings, seminars, dialogues with various groups, and participation in 15 exhibits and events.
- Consistently monitored stakeholder-related perceptions on Golden Rice and managed potential risks.
- Produced knowledge products (e.g., Q&A brochure) and distributed them to stakeholders through strategic media.





### WE PROMOTED RICE S&T THROUGH ARTWORKS, EXHIBITS, AND THEATER PERFORMANCES.

- Developed seven sets of new learning materials on rice farm mechanization, rice and birds, growth stages of rice, rice science for kids, Kapampangan rice heritage, and rice and health. These were used in promoting the rice ecosystem, healthy forms of rice, and rice conservation through 15 permanent and mobile exhibits in Albay, Manila, Nueva Ecija, Pampanga, Ilocos Sur, Iloilo, and Ilocos Norte.
- Developed and showed two theater performances for farmers to adopt hybrid rice and for the public to value their hard work in producing food. Feedback showed that farmer-audiences want to try hybrid after watching the performance, while the farmer-actors valued their role better in helping the country become rice-secure. Two jingles were released: Palay, Bigas, Kanin and ABC of Rice.
- Maintained rice exhibitions at the country's leading museums: National Museum, Mind Museum, Museo Pambata, and Clark Museum. These exhibitions reached more than 150,000 diverse audiences based on their 4,000 monthly visitors. A grant was received from the National Commission on Culture and the Arts for the project *Palayamanayon: Establishment of Rice Cultural Hub*. The paper *Promotion and Conservation of Philippine Cultural Ricescapes at the Rice Science Museum* was published in a refereed journal. Our project *Helping the Philippines become rice-secure through experiential and creative educational programs*, became a finalist in the Global Award Reimagine Education 2017 (Sustainability category), Philadelphia, USA.



## PROJECT IPaD

### (IMPROVING TECHNOLOGY PROMOTION AND DELIVERY THROUGH CAPACITY ENHANCEMENT OF THE NEXT GENERATION OF RICE EXTENSION PROFESSIONALS)

#### WE DEVELOPED AND ROLLED OUT MODALITIES AND OTHER PLATFORMS TO HELP REINVIGORATE THE AGRICULTURAL EXTENSION SYSTEM.

- Developed and tested with academe faculty, AEWs, farmer leaders, and some PhilRice staffers the training module **Agripreneurial: #partnership&progress** as part of the modular course, “#RiceUpPH: Help Transform our Rice-Farming Communities”.
- Customized a module on transformational leadership and trained 20 development staff of PhilRice involved in capacitating extension workers.
- Pilot-tested a specialized training course on pest and disease identification, damage assessment, and management with 23 AgRiDOC (Agricultural Development and Extension Officers of the Community) training graduates from Mindanao, and saw that the choice of topics was relevant and useful to the participants.
- Completed the monitoring and evaluation of the pilot batches of the AgRiDOC training program. Significant results show that the training enhanced AgRiDOC's capacity and helped them develop a deeper sense of mission for community transformation.
- Supported AgRiDOC training roll-outs across the country by giving general guidance and serving as resource persons.
- Conducted knowledge-sharing and learning (KSL) events with selected rice extension intermediaries using the KSL framework, which is now institutionalized at the PhilRice Development Communication Division.









# BRANCH STATIONS

Our seven branch stations continued to attend to the unique needs of their covered localities. Batac concentrated on rice technologies and management options for rainfed and drought-prone environments, with dryland crop production as peripheral focus. Isabela, which covers a chiefly rice-self-sufficient region, focused on strengthening farmer organizations through technology demonstrations, trainings, and seminars, giving them wider agro-enterprise options.

Los Baños and Bicol respectively served CALABARZON and MIMAROPA, and Bicol and Eastern Visayas. Los Baños played a key role in the government's hybrid rice commercialization program by developing two-line-based hybrids and by producing nucleus and breeder seeds of public hybrids. Developing and disseminating strategies and technologies that will make farming more resilient to climate change were among the main thrusts of Bicol.

Negros served as the main seed producer of nationally released and special-purpose rice varieties for the Visayas. It also served as a testing, evaluation, and demonstration center for rice engineering and mechanization.

Agusan and Midsayap catered to rice farming concerns under the unique climatic conditions of Caraga, and the prevalent pest outbreaks of Southern Mindanao, in that order.

Our field office at the Central Mindanao University, Bukidnon remained as a major seed producer. The Mindoro, Samar, and Zamboanga satellite stations will follow the same route.





MARIBEL A. ALUPAY



VANESSA A. TINGSON



# TOP INNOVATIVE IDEAS OF STATIONS

## HYBRID SEED PRODUCTION PROTOCOL

Critical in ensuring that hybrid seeds are of high quality, Los Baños developed this protocol for producing the parents and F1 seeds of released hybrids. The branch also developed internal controls to ensure seed purity and quality through the conduct of grow-out tests, viability monitoring, and efficient seed processing and storage of hybrid parental seeds.

## PATENTS AND UTILITY MODELS

Batac takes pride in one patent application and three utility models in the works. The patent is for its Low-Cost Drip Irrigation System, now adopted by five farmer groups. The utility models are for the CHR-insulated silo, improved treadle pump, and in-field water harvesting with soil conservation system. While the utility model for the silo is still underway, the innovation itself is ready for commercialization.

## “FARMBASSADORS”

The term sprang from Batac’s partnership with the Ilocos Sur-based Candon Youth Movement (CYM) involving students, employed workers, and out-of-school youth who participated in its series of trainings on *PalayCheck*, *Palayamanan* System, and Good Agricultural Practices. CYM benefitted from these trainings and is now able to earn income that augments its resources for its feeding programs, medical missions, and trainings for farmers and the youth.

## LOVE FOR RICE

Stations employed various strategies to entice millennials into rice farming. There is the annual Rice Garden and Ceremonial Rice-Harvesting at the Luneta handled by Los Baños. Rice paddy arts were also featured in Batac, Midsayap, Agusan, field office in CMU, and Central Luzon State University.

## RICE-MUNGBEAN RELAY

Isabela developed this technology to add to income from rice and generate jobs for the community. It promotes intensified cropping and prescribes the proper timing and varieties so as not to disrupt the cropping calendar of rice, particularly during the DS.

## EMBRACING TRADITIONAL

Batac, Negros, and Midsayap showed their love for traditional and upland rice varieties in their research activities. Batac initiated seed-increase for 60 traditional varieties, targeting 1 kg of seeds per variety. Negros and Midsayap targeted upland and highland farming communities in the Visayas and Mindanao (Region 12) for purification, seed production, and commercialization of selected traditional rice varieties. Negros put up demonstration plots for 200 traditional varieties during the dry season.





WAINESSA A. HINGSON



GERALD E. BELLO



MARITHA C. MANUBAY



All stations sustained stronger and more partnerships with regional offices of various departments and bureaus, SUCs, LGUs, farmer and irrigator organizations, community radio stations, and various R&D consortia.



## ENTOMOPATHOGENIC FUNGI FOR PEST CONTROL

Agusan formulated this biopesticide against the rice black bug, rice bug, brown planthopper, white and yellow stemborers by grinding substrates on which spores of *Metarhizium anisopliae* and *Beauveria bassiana* fungi were grown. They are a potential alternative method of controlling rice insect pests.

## USE OF AUXILIARY STATISTICAL TOOLS FOR BREEDING

Midsayap used these tools that show parallel results to effectively interpret analyses of plant breeding studies. Panicle weight could be used as indicator to select high-yielding lowland inbreds, while bigger flag leaves could be an initial indicator in selecting high-yielding upland varieties.

## RADIO-BASED DISTANCE LEARNING PLATFORM

Isabela maximized its partnerships with seven radio stations (two in Isabela, one each in Nueva Vizcaya and Quirino, and three in Cagayan) to intensify efforts in technology dissemination. The usual listen-only learning was transformed into listen-and-do learning system. The lessons learned on-air by the captive audience, or enrollees, were eventually tested in the learning field.

## PURPLE-BASED TRAIT

Los Baños incorporated this trait into the public hybrids Mestiso 19 and 20. This innovation can speed up grow-out testing from one season to only 15-21 days. It is a cheap and simplified technology to test the genetic purity of hybrid seeds.

## NON-STOP INNOVATIONS AND MORE PARTNERS

The stations sustained the sure-fire formula of technology demonstration and deployment through the modalities *Lakbay Palay*, Learning Farms, *Palayamanan Plus*, *Palayabangan*, RiceBIS communities, and One-Stop Information Shop (OSIS). Approximately 10,000 clients were reached through Lakbay Palay conducted across all stations. Isabela, Los Baños, Bicol, and Negros walked a step further in putting up OSIS corners in SUCs and places managed by LGUs nearby. Likewise, Los Baños conducted a quarterly seminar series catering to students and researchers in their locale. Capacity enhancement on Bicol's Agta Indigenous Peoples (IPs) on diversified and integrated rice-based farming was also pursued through the Palayamanan approach, raising rice yields by more than 60%.

All stations sustained stronger and more partnerships with regional offices of various departments and bureaus, SUCs, LGUs, farmer and irrigator organizations, community radio stations, and various R&D consortia. Complementarily, staff members of stations were frequently tapped as resource persons of these partners.









# Administration





## FINANCIAL MANAGEMENT DIVISION

**WE FOCUSED ON FACILITATIVE LEADERSHIP, INNOVATIONS IN FINANCIAL PROCESSES, COMPUTERIZATION, AND IMPROVED BUDGET MONITORING THAT RESULTED IN A MORE EFFICIENT UTILIZATION OF THE INSTITUTE'S BUDGET.**

- Maintained an increasing trend in the institute's absorptive capacity through reforms in the financial management system, from 65% in 2015, 94% in 2016, and 97% in 2017. The unused 3% in 2017 was due to unfilled positions.
- Created a three-lane processing system, namely: corporate funds lane, external funds lane, and a color-tagged express lane for cash advances, reimbursements, and unforeseen special events. Each lane has its own budget officers and processing accountants. Stalled transactions were elevated to higher authorities.
- Boosted processing and bookkeeping services by hiring more staff, equipping them with new computers, and training them on the new Financial Management Information System (FMIS), all resulting in faster processing time and generation of liquidation reports.
- Linked the budget system and project procurement and management plan viewing, which facilitated the approval and allocation of budget purchase requests.
- Connected the Financial Management and Property and Procurement Management Divisions' document tracking systems to monitor flow of transactions.
- Completed the budget, accounting, cashiering, and bookkeeping systems of the new FMIS.
- Converted to the unified account code structure financial system in compliance with the requirements of DBM.
- Centralized repository of financial records and vouchers in the central storage for the ongoing reconciliation of accounts from prior years' transactions.

- Introduced a project roll-out conference where externally funded project leaders and general administrative support services representatives discussed the requirements of the projects.
- Monthly fund balances, fund utilization rates, and open budget utilization requests were made available to all project and study leaders to help them monitor their project implementation.

## PROCUREMENT OF SUPPLIES, GOODS, AND SERVICES

**WE INTRODUCED DIFFERENT MODES OF PROCUREMENT BASED ON THE IRR OF 2016, RAISED THE AWARENESS AND COOPERATION OF THE R&D SECTORS, AND IMPROVED THE PROCUREMENT AND AVAILABILITY OF SUPPLIES, GOODS, AND SERVICES.**

- Enabled timely implementation of R&D projects and achievement of targets through the reforms in the procurement law contained in the Implementing Rules and Regulations (IRR) of 2016; additional procurement modes stipulated in it were used. New leaders were also trained on the procurement law.
- Facilitated the 100% equipment acquisition for corporate and externally funded projects, which expedited the implementation of R&D projects.
- Centralized preparation of purchase requests and equipment acquisition.
- Advanced placement of orders to DBM for bulk procurement of office supplies and per lot awarding.
- Implemented one-time processing of notices of award, notices to proceed, purchase orders, and abstracts of canvass.
- Segregated duties and responsibilities through efforts like assigning one canvasser/buyer per category.





- Increased amounts of petty cash to P15,000 and check reimbursement up to P50,000.
- The early acquisition of equipment charged to capital outlay of Tier 1 budget generated savings that were used to purchase other equipment.
- Initiated food ordering system, improved delivery of goods, and reduced processing time.
- Environment-friendly products were preferred; energy-efficient building designs were also introduced.
- Organized the first suppliers' forum to promote awareness on PHILGEPS; 63 companies attended, and suppliers' databases, product specifications, and pricelists were created.
- In partnership with the Information Systems Division, the new project procurement and management plan (PPMP) and purchase request modules of the Property, Supply, and Inventory Systems were developed, where 16,000 records of goods were reduced to 4,000 by eliminating duplicates. This eased the consolidation of the PPMP for 2018.



## PHYSICAL PLANT DIVISION

**WE IMPLEMENTED THE MOST NUMBER OF NEW AND ON-GOING INFRASTRUCTURE PROJECTS THUS FAR; MASSIVE REPAIRS AND UPGRADING OF FACILITIES DONE SIMULTANEOUSLY AT THE CES, BRANCH AND SATELLITE STATIONS.**

- Completed the laboratory and lodging facilities of PhilRice Negros (approximately P10M) and PhilRice Agusan (P12M).
- Started the Germplasm Resources Laboratory (P23M) and the new administration building (P10M) at CES.
- Established warehouse, flatbed dryer, and motorpool facilities in the Samar satellite station.
- Convinced the Western Mindanao State University to host the Zamboanga satellite station, for which P9M was allocated for the construction of its office, warehouse, and farmland.

- Erected screenhouses, seed processing sheds, warehouses, and water impounding systems for CES, Agusan, Batac, and Midsayap branch stations (approximately P8M).
- Repaired and rehabilitated offices, laboratories, seed processing plants, staff housing, electrical and water systems, toilets, and perimeter fences (P17.3M).
- Renovated the Midsayap administration building and restored the Guesthouse; PhilRice CMU's administration building was also improved.
- Completed four Intensified Rice-Based Agribiosystem sites consisting of farm structures for mushroom production, vermicomposting, and animal pens; P16M worth of biomass processing structures were also put up in Isabela, Negros, Agusan, and Midsayap.
- Built additional screenhouses and repaired storage areas and offices (P10.2M from externally funded projects).
- Acquired nine brand-new vehicles (3 vans, 3 AUVs, 2 pickups and 1 hauling van) using external funds.

## HUMAN RESOURCES, GENERAL SUPPORT SERVICES

**WE HELPED MAKE LIFE BETTER FOR ALL PERSONNEL BY PROVIDING APPROPRIATE BENEFITS, INCENTIVES, OPPORTUNITIES, TRAINING, AND PROFESSIONAL GROWTH.**

- Crafted a fresh organizational structure and a request for additional regular personnel in line with the strategic plan 2017-2022.
- Received the CSC PRIME-HRM award anew, recognizing four HR systems: Program Management System, Rewards and Recognition, Recruitment and Selection, and Learning and Development. Since 2015, the CSC DA cluster and CSC NCR have recognized PhilRice for its compliance with government HR systems.
- 40 appointments were signed, none of which was invalidated by CSC. The PhilRice executive director is now authorized to issue permanent appointments to qualified staff, attesting to the quality of its HR systems in place.
- Created a line item in the budget for the PhilRice Program on Awards and Incentive for Service Excellence (PhilPRAISE), allocating incentives for its R&D productivity and recognitions.





- PhilRice received prestigious national and international recognitions for the outstanding talents and contributions of its R&D personnel. Notable of these are awards from the CSC, DA Gawad Saka, Philippine Agricultural Journalists-San Miguel Corp., Manila Water Foundation, and DOST/NAST.
- Enabled early preparation of notices of salary increases for 2017 and 2018, which facilitated the submission of updated employee service records and data to GSIS, resulting in no arrears.
- The improved payroll system expedited monitoring of benefits received and deductions, resulting in prompt remittances to GSIS, PhilHealth, and HDME.
- Updated records accelerated loans and claims from GSIS, HDME, and payment of terminal leaves and monetization claims. The clearance system was also modified, reducing the number of signatories and turnaround time.
- Reviewed with the OGCC important provisions in the SDC guidelines to resolve long-standing issues on return service, interest rates on financial obligations of defaulting scholars, all with reference to pertinent laws.
- Updated the housing guidelines, which now include a bond and periodic inspections.
- Started organizing a PhilRice Alumni Association.

## BUSINESS DEVELOPMENT DIVISION

**WE PRODUCED AND SOLD HIGH-QUALITY BREEDER, FOUNDATION, AND REGISTERED SEEDS TO HELP THE RICE SEED INDUSTRY BRING THE BENEFITS OF QUALITY RICE SEEDS TO OUR FARMERS. THE INCOME FROM SEEDS, GOODS, AND SERVICES AUGMENTS FINANCIAL SUPPORT FOR OUR R&D OPERATIONS.**

- CES and its branch stations produced a total of 459 tons (in 209 ha during the DS) and 724 tons (in 305 ha, WS) of foundation and registered seeds, contributing to the goal of attaining rice sufficiency through the use of high-quality seeds.
- The new seed processing facility donated by Korea was able to process 24 tons of seeds during the DS, and about 30 tons during the WS. Its efficiency grew from 72.3% to 100%.
- Produced two manuals: (1) work instructional manual to guide personnel on seed production, marketing, and warehouse management, and (2) operations manual with detailed procedures on delivering BDD services to internal and external clients.
- Proposed to consolidate seed production plots of BDD into a 30-50-hectare contiguous farm lot to elevate production efficiency, management, and quality control.
- Some 4,000 guests stayed in our facilities, increasing the BDD hostel and dormitory amenities' average occupancy rate from 35% to 46% per month.
- Restored the food and beverage processing plant, with pertinent documents and permits from BFAD, thereby resuming rice wine production.
- The Intellectual Property Management Office (IPMO) was integrated with BDD to merge technology commercialization and processing.

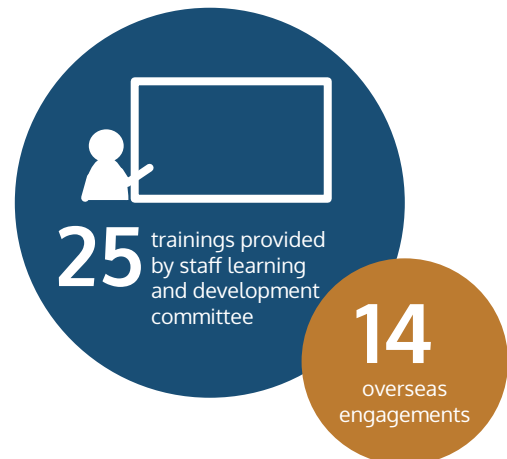




# OTHER ACCOMPLISHMENTS

## STAFF DEVELOPMENT

We continued to give our best for our farmers by capacitating R&D personnel. Regular staff participated in 25 trainings, workshops, seminars, and conferences. Other staff also took part in at least 14 overseas engagements related to rice science.



## SCIENTIFIC PRODUCTIVITY

We continued our scientific journey by publishing in different local and international journals and books.

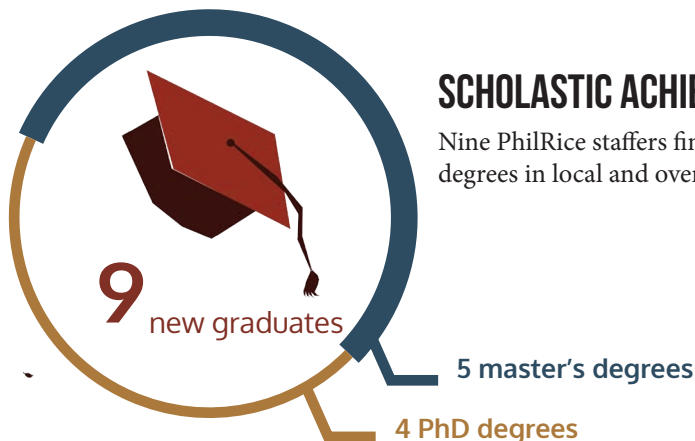
## PEER RECOGNITIONS

We sustained our good institutional reputation through the respectable awards we earned here and abroad. We aim for the best in all aspects, and for our farmers as well.



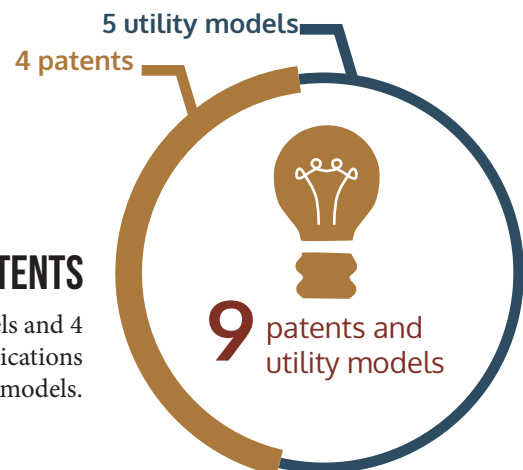
## SCHOLASTIC ACHIEVEMENT

Nine PhilRice staffers finished PhD and master's degrees in local and overseas universities.



## PATENTS

Since 2004, PhilRice was granted 5 utility models and 4 patents. At the end of 2017, ongoing patent applications totalled 17 and 5 for utility models.





## BOARD OF TRUSTEES

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Secretary of Agriculture

Ex- Officio Chairperson

### MEMBERS:

**Senen C. Bacani** - Agribusiness Community

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**Jose S. Concepcion Jr.** - Business Community

**Pacifico M. Fajardo** - Community  
Development Group

**Teodoro C. Mendoza**  
- Academic Community

**Delfin R. Pilapil Jr.** - Consumer Sector

**Maria Luisa R. Soliven**  
- Science Community

**Alexander C. Uy** - Consumer Sector

**Luis Rey I. Velasco** - Academic Community

**Winston C. Corvera** - Farming Sector

*(whereabouts unknown to PhilRice)*

**Gelia T. Castillo** (Deceased) - Science Community

**Constante T. Briones** - Secretary

## PHILRICE OFFICIALS

**Sailila E. Abdula** - Acting Executive Director

**Eduardo Jimmy P. Quilang** - Acting Deputy Executive  
Director for Research

**Flordeliza H. Bordey** - Acting Deputy Executive  
Director for Development

**Roger F. Barroga** - Acting Deputy Executive Director  
for Administrative Services and Finance

### ASSOCIATION OF PHILRICE EMPLOYEES

**Babylinda O. Reyes** - President

**Riza Abilgos-Ramos** - Vice President

**Joy Bartolome A. Duldulao** - Secretary

**Ma. Cielo J. Tibayan** - Treasurer

**Leonardo V. Marquez** - Auditor

### Board Members:

**Imelda A. Arida**

**Arturo C. Arocena, Jr.**

**Xavier Greg I. Caguiat**

**Karen Eloisa T. Barroga** (Sep - Dec 2017)

## MANAGEMENT TEAM

### BRANCH DIRECTORS

**Abner T. Montecalvo** - PhilRice Agusan

**Artemio B. Vasallo** (Jan to June) and **Victoria C. Lapitan** (July onwards) - PhilRice Bicol

**Reynaldo C. Castro** - PhilRice Batac

**Ommal H. Abdulkadil** - PhilRice Midsayap

**Edgar M. Libetario** (Jan to Jun) and **Rizal G. Corales** (July onwards) - PhilRice Negros

**Leo C. Javier** - PhilRice Isabela

**Caesar Joventino M. Tado** - PhilRice Los Baños and Mindoro Satellite Station

**Mario R. Ramos** (Jan to June) and **Dante C. Dela Cruz** (June onwards) - PhilRice Field Office, CMU

**Mario R. Ramos** (July onwards) - Samar Satellite Station

### RESEARCH DIVISION HEADS

**Wilfredo B. Collado** - Agronomy, Soils,  
and Plant Physiology

**Genaro S. Rillon** - Crop Protection

**Oliver E. Manangkil** - Plant Breeding and  
Biotechnology

**Rosaly V. Manaois** - Rice Chemistry and Food Science

**Arnold S. Juliano** - Rice Engineering and  
Mechanization

**Jonathan M. Niones** - Genetic Resources

### DEVELOPMENT DIVISION HEADS

**Ronan G. Zagado** - Development Communication

**Lea D. Abaoag** - Technology Management  
and Services

**Jovino L. De Dios** - Information Systems

**Rhemilyn Z. Relado** - Socioeconomics

### ADMINISTRATIVE SUPPORT DIVISION HEADS

**Necitas B. Malabanan** - General Administrative  
Support Services

**Fidela P. Bongat** - Business Development

**Aurea C. Cosio** - Financial Management

**Hazel Jane M. Orge** - Integrated Management  
Standards and Systems Office

**Teodora L. Briones** - Corporate Services

**Roy V. Santiago** - Internal Audit Unit

**Renato B. Bajit** - Physical Plant

**Glenda D. Ravelo** - Human Resource

**Sophia T. Borja** - Procurement and Property  
Management

**Roel R. Suralta** - DA-Crop Biotechnology Center  
Director



# PLANTILLA STAFF

## OFFICE OF THE EXECUTIVE DIRECTOR

Abdula, Sailila E. - Director I (Acting Executive Director)  
Quiring, Sylvia Therese C. - Executive Assistant III  
Donayre, Abigail T. - Senior Administrative Assistant

## Board of Trustees

Briones, Constanse T. - Board Secretary IV

## Internal Audit Unit

Santiago, Roy V. - Internal Auditor III

## Corporate Services Division

Briones, Teodora L. - Planning Officer V  
Kalaw, Joselito A. - Development Management Officer IV  
Mandia, Laarnie L. - Planning Officer II  
De Gracia, Irmina R. - Planning Assistant

## OFFICE OF THE DEPUTY EXECUTIVE DIRECTOR FOR RESEARCH

Quilang, Eduardo Jimmy P. - Chief Science Research Specialist  
Ona, Rizzla S. - Executive Assistant III  
Baldovino, Arlene S. - Administrative Assistant V  
Dela Cruz, Ronaldo J. - Administrative Aide V

## Plant Breeding and Biotechnology Division

Desamero, Nenita V. - Chief Science Research Specialist  
Arocena, Emily C. - Supervising Science Research Specialist  
Manangkil, Oliver E. - Supervising Science Research Specialist  
Manigbas, Norvie L. - Chief Science Research Specialist (Scientist I)  
Perez, Loida M. - Supervising Science Research Specialist  
Waing, Frodie P. - Senior Science Research Specialist  
Dela Cruz, Arlen A. - Senior Science Research Specialist  
Santiago, Errol V. - Senior Science Research Specialist  
Caguiat, Joanne D. - Senior Science Research Specialist  
Pacada, Imeldalyn G. - Senior Science Research Specialist  
Ordonio, Reynante L. - Senior Science Research Specialist  
Gramaje, Leonilo V. - Senior Science Research Specialist  
Barroga, Wilhelmina V. - Science Research Specialist II  
Cabusora, Christopher C. - Science Research Specialist II  
Pariñas, Julieta F. - Science Research Specialist I

## Rice Chemistry and Food Science Division

Romero, Marissa V. - Chief Science Research Specialist  
Abilgos-Ramos, Riza G. - Supervising Science Research Specialist  
Bandonill, Evelyn H. - Supervising Science Research Specialist  
Mamucod, Henry F. - Senior Science Research Specialist  
Corpuz, Henry M. - Senior Science Research Specialist  
Manaois, Rosaly V. - Senior Science Research Specialist  
Bulatao, Rodel M. - Science Research Specialist II  
Morales, Amelia V. - Science Research Specialist I

## Agronomy, Soils, and Plant Physiology Division

Suralta, Roel R. - Chief Science Research Specialist (Scientist II)  
Collado, Wilfredo B. - Supervising Science Research Specialist  
De Dios, Jovino L. - Supervising Science Research Specialist  
Javier, Evelyn F. - Supervising Science Research Specialist  
Juliano, Leylani M. - Supervising Science Research Specialist

Tallada, Jasper I. - Supervising Science Research Specialist  
Malabayabas, Myrna D. - Senior Science Research Specialist  
Capistrano, Ailon Oliver V. - Senior Science Research Specialist  
Cruz, Jayvee A. - Senior Science Research Specialist (Scientist I)  
Cañete, Sandro D. - Science Research Specialist II  
Espiritu, Annie E. - Science Research Specialist II  
Espiritu, Alex J. - Science Research Specialist I  
Grospe, Filomena S. - Science Research Specialist I

## Crop Protection Division

Rillon, Genaro S. - Chief Science Research Specialist  
Dela Peña, Fe A. - Supervising Science Research Specialist  
Martin, Edwin C. - Supervising Science Research Specialist  
Niones, Jennifer T. - Supervising Science Research Specialist  
Donayre, Dindo King M. - Senior Science Research Specialist (Scientist I)  
Marquez, Leonardo V. - Senior Science Research Specialist  
Rillon, Juliet P. - Senior Science Research Specialist  
Santiago, Gilely D. - Senior Science Research Specialist  
Valdez, Evelyn M. - Senior Science Research Specialist  
Avellanoza, Eleanor S. - Science Research Specialist II  
Duca, Ma. Salome V. - Science Research Specialist II

## Rice Engineering and Mechanization Division

Regalado, Manuel Jose C. - Chief Science Research Specialist (Scientist I)  
Bautista, Elmer G. - Supervising Science Research Specialist  
Gagelonia, Eden D. - Supervising Science Research Specialist  
Juliano, Arnold S. - Supervising Science Research Specialist  
Orge, Ricardo F. - Supervising Science Research Specialist (Scientist I)  
Pascual, Kristine S. - Senior Science Research Specialist  
Ramos, Joel A. - Senior Science Research Specialist  
Ramos, Paulino S. - Senior Science Research Specialist  
Sibayan, Evangeline B. - Supervising Science Research Specialist  
Abon, John Eric O. - Science Research Specialist II  
Villota, Katherine C. - Science Research Specialist I

## Genetic Resources Division

Niones, Jonathan M. - Chief Science Research Specialist  
Brena, Susan R. - Supervising Science Research Specialist  
Caguiat, Xavier Greg I. - Senior Science Research Specialist  
Ferrer, Marilyn C. - Senior Science Research Specialist  
Mananghaya, Teodora E. - Science Research Specialist II  
Newingham, Maria Cristina V. - Science Research Specialist I

## OFFICE OF THE DEPUTY EXECUTIVE DIRECTOR FOR DEVELOPMENT

Bordey, Flordeliza H. - Chief Science Research Specialist  
Razon, Shereen P. - Executive Assistant III  
Labay, Anna Liza P. - Administrative Assistant V  
Quimson, Alejandro C. - Administrative Aide V

## Development Communication Division

Barroga, Karen Eloisa T. - Chief Science Research Specialist  
Gonzales-Esmemo, Diadem B. - Supervising Science Research Specialist  
Zagado, Ronan G. - Supervising Science Research Specialist  
Antonio, Hazel V. - Senior Science Research Specialist  
Lanuza, Andrei B. - Senior Science Research Specialist



# PLANTILLA STAFF

Layaoen, Myriam G. - Senior Science Research Specialist  
Manalo, Jaime A. IV - Senior Science Research Specialist  
Manalo, Hanah Hazel Mavi B. - Science Research Specialist II  
Nido, Mary Grace M. - Science Research Specialist I  
Dacumos, Carlo G. - Creative Arts Specialist II

## Technology Management and Services Division

Miranda, Ruben B. - Chief Science Research Specialist  
Abaoag, Lea D. - Supervising Science Research Specialist  
Antonio, Anita V. - Supervising Science Research Specialist  
Corales, Aurora M. - Supervising Science Research Specialist  
Ilar, Glenn Y. - Supervising Science Research Specialist  
Angeles, Ev P. - Senior Science Research Specialist  
Garcia, Fernando D. - Senior Science Research Specialist  
Pascual, Joel V. - Senior Science Research Specialist  
Pineda, Rowena A. - Senior Science Research Specialist  
Romanillos, Richard D. - Senior Science Research Specialist  
Manalang, Marvin D. - Science Research Specialist II

## Information Systems Division

Tamani, Luis Alejandro I. - Information Technology Officer II  
Diaz, Consolacion D. - Information Technology Officer I  
Arocena, Arturo C. Jr. - Information Systems Analyst II  
Joshi, Elaine E. - Librarian III  
Salvador, Virginia P. - Librarian II

## Socio-Economics Division

Beltran, Jesusa C. - Supervising Science Research Specialist  
Litonjua, Aileen C. - Senior Science Research Specialist  
Manalili, Rowena G. - Senior Science Research Specialist  
Mataia, Alice B. - Senior Science Research Specialist  
Relado, Rhemilyn Z. - Director I  
Malasa, Ronell B. - Science Research Specialist II  
Arida, Imelda A. - Science Research Specialist I

## OFFICE OF THE DEPUTY EXECUTIVE DIRECTOR FOR ADMINISTRATIVE SERVICES AND FINANCE

Barroga, Roger F. - Information Technology Officer III  
Duldulao, Joy Bartolome A. - Senior Science Research Specialist  
Aquino, Recille G. - Executive Assistant III  
Gonzales, Roberto E. - Administrative Aide IV

## Administrative Support Division

Malabanan, Necitas B. - Chief Administrative Officer  
Borja, Sophia T. - Supervising Administrative Officer  
Lumawag, Fe N. - Supervising Administrative Officer  
Ravelo, Glenda D. - Supervising Administrative Officer  
Alonzo, Fe G. - Property Officer V  
Gibe, Ma. Ethel P. - Administrative Officer V  
Villaroman, Grace S. - Supply Officer III  
Tibayan, Ma. Cielo J. - Dormitory Manager III  
Molina, Elizabeth P. - Human Resource Management Officer II  
Miranda, Guadalupe C. - Public Relations Officer II  
Requito, Jasmin G. - Cashier II  
Dilla, Myline A. - Records Officer II

## Financial Management Division

Cosio, Aurea C. - Internal Auditor IV  
Diaz, Erla Q. - Internal Auditor II  
Corpuz, Mary Grace D. - Supervising Administrative Officer  
Reyes, Babyllinda O. - Accountant III  
Salvador, Marychelle B. - Administrative Officer V  
Agudia, Joy T. - Administrative Officer I  
Hibionada, Felylee B. - Administrative Assistant III

## Physical Plant Division

Bajit, Renato B. - Chief Administrative Officer  
Orge, Hazel Jane M. - Supervising Administrative Officer  
Noriega, Antonio S. Jr. - Engineer III  
Irang, Reynaldo E. - Farm Superintendent III  
Narca, Gina B. - Engineer II  
General, Daryl F. - Farm Superintendent I  
Ramos, Elizabeth C. - Administrative Assistant III

## Business Development Division

Bongat, Fidela P. - Division Chief III  
Serapion, Jerry C. - Intellectual Property Rights Specialist IV  
Narvadez, Chona Mae S. - Sales and Promotion Supervisor IV  
Alfon, Hazel B. - Sales and Promotion Supervisor III  
Capistrano, Maureen P. - Sales and Promotion Supervisor III  
Orcino, Jose A. - Sales and Promotion Supervisor II  
Cruz, Rodjason B. - Warehouseman II

## BRANCH STATIONS

### AGUSAN

Montecalvo, Abner T. - Director I  
Bondad, Rochelle Marie P. - Administrative Officer IV  
Mabayag, Noel O. - Farm Superintendent II  
Cadiz, Irma O. - Administrative Assistant II  
Giray, Adelaida B. - Supervising Administrative Officer  
Abao, Nievalin B. - Warehouseman I

### Research

Estoy, Gerardo F. - Chief Science Research Specialist  
Nemeño, Genevive A. - Senior Science Research Specialist  
Bastasa, Dexter B. - Science Research Specialist II  
Rivas, Sharen T. - Science Research Specialist I

### Development

Magahud, Jehru C. - Senior Science Research Specialist  
Tabudlong, Belen M. - Science Research Specialist II  
Villarina, Jerry C. - Farm Superintendent I

### CMU FIELD OFFICE

Ramos, Mario R. - Supervising Science Research Specialist  
(reassigned to Samar)  
Dela Cruz, Dante C. - Science Research Specialist II  
Galvez, Rizalina F. - Administrative Officer I  
Dahino, Ivy Pearl B. - Warehouseman I



# PLANTILLA STAFF

## BATAC

Castro, Reynaldo C. - Director I  
Ullibac, Jennifer M. - Administrative Officer III  
Ganotisi, Rosana Sabella O. - Administrative Officer I  
Seguritan, Clarivel O. - Administrative Assistant II  
James, Joel G. - Land Management Officer II  
Penera, Mildred L. - Warehouseman I

## Research

Alibuyog, Anielyn Y. - Senior Science Research Specialist  
Miano, Joey P. - Science Research Specialist II  
Taguda, Lex C. - Science Research Specialist II

## Development

Baradi, Mary Ann U. - Chief Science Research Specialist  
Abrogena, Nida Q. - Supervising Science Research Specialist  
Catudan, Bethzaida M. - Senior Science Research Specialist  
Maloom, Juanito M. - Senior Science Research Specialist  
Maoirat-Abad, Mae Rose - Science Research Specialist II

## BICOL

Vasallo, Artemio B. - Director I  
Lapitan, Victoria C. - Chief Science Research Specialist  
Dollentas, Rona T. - Supervising Science Research Specialist  
De Peralta, Melanie Aileen C. - Science Research Specialist I  
Mirandilla, Jean Rochielle F. - Science Research Specialist I  
Espiritu, Lovely P. - Administrative Officer III  
Dela Cruz, Gideon F. - Administrative Officer I  
Sienes, Junior A. - Farm Superintendent I  
Merced, Richelle Q. - Administrative Assistant II  
Dela Torre, Neil P. - Warehouseman I

## ISABELA

Javier, Leo C. - Director I  
Ramos, Fidel M. - Farm Superintendent II  
Padilla, Michelle C. - Administrative Officer III  
Mandac, Hiyasmin R. - Administrative Officer I  
Guillermo, Juanita C. - Administrative Officer I  
Obana, Angelita B. - Warehouseman I

## Research

Malonzo, Ofelia C. - Supervising Science Research Specialist  
Valdez, Rene E. - Supervising Science Research Specialist  
Amar, Gracia B. - Senior Science Research Specialist  
Pasicolan, Helen R. - Senior Science Research Specialist  
Gawat, Nancy R. - Science Research Specialist II  
Dela Cruz, Andres L. - Science Research Specialist II  
Sosa, Nymfa S. - Science Research Specialist I

## Development

Manubay, Maritha C. - Science Research Specialist II  
Acierto, April Joy B. - Science Research Specialist I  
Galapon, Jerome V. - Science Research Specialist I

## LOS BAÑOS

Movillon, Mario M. - Chief Science Research Specialist  
Angeles, Noriel M. - Senior Science Research Specialist  
Sajise, Edelweiss E. - Senior Science Research Specialist  
Talavera, Mel Anthony T. - Senior Science Research Specialist  
Quimbo, Michelle C. - Senior Science Research Specialist  
Olvida, Imelda D. - Senior Science Research Specialist  
De Guzman, Kristofferson C. - Administrative Officer I  
Gonzalvo, Belinda M. - Administrative Assistant II  
Salazar, Babylyn T. - Science Research Specialist II  
Tado, Caesar Joventino M. - Director I

## MIDSAYAP

Muyet, Virgilio F. - Farm Superintendent II  
Ducao, Honalee A. - Administrative Officer III  
Astillo, Marifel A. - Administrative Officer I  
Escabarte, Ma. Teresa A. - Administrative Officer I  
Romarez, Marissa C. - Warehouseman I

## Research

Tadle, Frezzel Praise J. - Supervising Science Research Specialist  
Perialde, Evelyn S. - Senior Science Research Specialist  
Torreña, Pernelyn S. - Supervising Science Research Specialist  
Boholano, Isagane V. - Science Research Specialist II  
Sumlay, Datu Ali N. - Science Research Specialist I

## Development

Abdulkadil, Ommal H. - Chief Science Research Specialist  
Balleras, Gina D. - Supervising Science Research Specialist  
Cantila, Aldrin Y. - Senior Science Research Specialist  
Sabes, Peter Lyod P. - Science Research Specialist I

## NEGROS

Corales, Rizal G. - Supervising Science Research Specialist  
Alcosaba, Grace O. - Administrative Officer III  
Cabanayan, Maricris S. - Administrative Officer I  
Pajarillo, Hermie A. - Farm Superintendent I  
Alvarez, Joey E. - Warehouseman I

## Research

Sta. Ines, Leo T. - Senior Science Research Specialist  
Seville, Cherryl U. - Senior Science Research Specialist  
Palanog, May O. - Science Research Specialist I

## Development

Libetario, Edgar M. - Chief Science Research Specialist  
Suñer, Albert Christian S. - Supervising Science Research Specialist  
Palanog, Alvin D. - Senior Science Research Specialist  
Mondejar, Cielo Luz C. - Science Research Specialist I  
Cordova, Jose Arnel E. - Science Research Specialist II



# PHILRICE AWARDS

## DANGAL NG PHILRICE AWARDS

### OUTSTANDING INDIVIDUALS

#### *Outstanding Official*

- Teodora L. Briones

#### *Outstanding Senior Researcher*

- Norvie L. Manigbas

#### *Outstanding Junior Researcher*

- Rodel M. Bulatao

#### *Outstanding Senior Development Worker*

- Lea D. Abaoag

#### *Outstanding Junior Development Worker*

- Jose Arnel E. Cordova

#### *Outstanding Administrative Middle Manager*

- Erla Q. Diaz

#### *Outstanding General Administrative Support Staffer*

- Jasmin G. Requito

#### *Best Station* - Midsayap

#### *Best Office* - Rice Chemistry and Food Science Division

#### *Best Team* - IPaD Team

### OUTSTANDING SERVICE CONTRACTORS

#### *Outstanding Junior Researcher*

- Josefina F. Ballesteros  
- Teodora E. Mananghaya

#### *Outstanding Senior Development Worker*

- Jacqueline Lee O. Canilao

#### *Outstanding Junior Development Worker*

- Perry Irish H. Duran  
- Ranzel M. Almario

#### *Outstanding General Administrative Support Staffer*

- Maria Romina F. Padolina

#### *Outstanding Field Worker*

- Joel G. Alcantara (GASS)  
- Percival I. Ballesteros (DEV)  
- Nelbert P. Samiling [RES]

#### *Outstanding Laboratory Worker*

- Feliciano C. Cortez

#### *Outstanding Driver*

- Noel D. Mamplata

#### *Outstanding Skilled Worker*

- Danilo D. Tapic (GASS)  
- Wilfredo L. Grospe [RES]  
- Johnmark C. Patricio (DEV)

#### *Outstanding Utility Worker*

- Perlita R. Guindang

## NATIONAL AND REGIONAL AWARDS

### CIVIL SERVICE COMMISSION

#### *National HAP (Honor Awards Program) Winner*

##### *PAGASA Awardee*

- Rizal G. Corales

#### *Regional HAP Winner, Presidential Lingkod Bayan*

##### *- Individual Awardee*

- Hazel V. Antonio

#### *Regional HAP Semi-Finalist, Presidential Lingkod Bayan - Individual Awardee*

- Jaime A. Manalo IV

#### *PRIME-HRM (Program to Institutionalize Meritocracy and Excellence in Human Resource Management): Recruitment, Selection and Placement Learning and Development. Maturity Level 2*

- Human Resources Management Office

### DEPARTMENT OF AGRICULTURE

#### *Regional Gawad Saka Outstanding Agricultural Scientist/National Finalist*

- Marissa V. Romero

#### *Gawad Saka Assisting Technical Extension Worker*

- Ashlee P. Canilang

### BRIGHT LEAF AGRICULTURE JOURNALISM AWARDS

#### *Best Agriculture Feature Story (Regional)*

- Mary Grace M. Nido

### PHILIPPINE AGRICULTURAL JOURNALISTS INC.

#### *Binhi Awards Best Agri Information & Media Campaign of the Year (#BROWNforgood Challenge)*

- Development Communication Division

#### *Binhi Awards Agricultural Magazine of the Year (PhilRice Magasin)*

- Development Communication Division

#### *Best Agricultural Radio Program (Maunlad na Agrikultura sa Nayon)*

- Development Communication Division

### 43<sup>rd</sup> PHILIPPINE BUSINESS CONFERENCE AND EXPOSITION

*1st Runner-up for the Professional Category of the 2017 Alfredo M. Yao (AMY) Intellectual Property (IP) Awards. National IP Award for entry "Continuous-type Rice Hull (CtRH) Carbonizer"*  
- Ricardo F. Orge

### CROP SCIENCE SOCIETY OF THE PHILIPPINES, INC.

#### *CSSP Achievement Award in Technology Development (Group category)*

- PhilRice Rainfed Lowland/Stress Environment Rice Breeding and Variety Development Team

### NATIONAL DIGITAL ARTS

#### *National Finalist*

- Andrei B. Lanuza

### MANILA WATER FOUNDATION

#### *Prize for Engineering Excellence Awardee*

- Ricardo F. Orge

## INTERNATIONAL AWARDS

### ASEAN RICE SCIENCE AND TECHNOLOGY AMBASSADORS AWARDS

#### *Outstanding Rice Scientist*

- Sailila E. Abdula

### WHARTON UNIVERSITY OF PENNSYLVANIA

#### *2017 Global Reimagine Education Sustainability Award*

- Diadem G. Esmero

### GOURMAND WORLD COOKBOOK AWARDS

*PhilRice Tapuy (Rice Wine) Cookbook Cocktails: A collection of recipes and cocktails featuring Philippine Rice Wine. Philippine Rice Research Institute. Copyright 2011.*

*Mushroom Feast: A Collection of Filipino Mushroom Recipes. December 2016.*





Philippine Rice Research Institute  
**CONDENSED STATEMENT OF FINANCIAL POSITION**  
 ALL FUNDS (Corporate, BDD, and Trust Funds)  
 As at December 31, 2017

|                               | 2017                    | 2016                    |
|-------------------------------|-------------------------|-------------------------|
| <b>A S S E T S (PhP)</b>      |                         |                         |
| Current Assets                |                         |                         |
| Cash and Cash Equivalents     | 1,221,500,836.15        | 1,233,958,269.08        |
| Receivables                   | 247,354,723.06          | 227,690,155.31          |
| Inventories                   | 94,442,476.27           | 89,359,921.70           |
| Other Current Assets          | 28,883,210.70           | 27,679,300.86           |
| Total Current Assets          | 1,592,181,246.18        | 1,578,687,646.95        |
| Non-Current Assets            |                         |                         |
| Property, Plant and Equipment | 820,769,750.12          | 811,458,511.48          |
| Biological Assets             | 3,377,330.80            | 3,468,830.80            |
| Total Non-Current Assets      | 824,147,080.92          | 814,927,342.28          |
| <b>TOTAL ASSETS</b>           | <b>2,416,328,327.10</b> | <b>2,393,614,989.23</b> |

|   |                         |                         |
|---|-------------------------|-------------------------|
| <b>LIABILITIES (PhP)</b>                                |                         |                         |
| Current Liabilities                                     |                         |                         |
| Financial Liabilities                                   | 314,197,037.50          | 340,131,011.24          |
| Inter-Agency Payables                                   | 422,127,526.68          | 408,998,577.35          |
| Intra-Agency Payables                                   | 87,900,159.57           | 23,587,701.54           |
| Trust Liabilities                                       | 2,313,122.49            | 3,372,026.33            |
| Deferred Credits  | 11,405,527.77           | 11,288,870.66           |
| Other Payables  | 368,666,827.36          | 399,761,576.00          |
| Total Current Liabilities                               | 1,206,610,201.37        | 1,187,139,763.12        |
| <b>TOTAL LIABILITIES</b>                                | <b>1,206,610,201.37</b> | <b>1,187,139,763.12</b> |
| <b>TOTAL NET ASSETS (Total Assets less Liabilities)</b> | <b>1,209,718,125.73</b> | <b>1,206,475,226.11</b> |

|                                |                         |                         |
|--------------------------------|-------------------------|-------------------------|
| <b>NET ASSETS/EQUITY</b>       |                         |                         |
| Equity                         |                         |                         |
| Government Equity              | 1,209,718,125.73        | 1,206,475,226.11        |
| <b>TOTAL NET ASSETS/EQUITY</b> | <b>1,209,718,125.73</b> | <b>1,206,475,226.11</b> |



# PHILRICE PARTNERS

- Alalay sa Kaunlaran, Inc.
- Agricultural Training Institute
- Arab Gulf Program for Development
- Aramal – Tocok Federation of Free Farmers Multi-Purpose Cooperative
- Ateneo Innovation Center
- Bagong Pag-asa sa Bagong Talavera Primary Multi-Purpose Cooperative
- Bayer Crop Science
- Bicol University College of Agriculture and Forestry
- Bulacan Agricultural State College
- Cagayan State University
- Cagayan Valley Organic Farmers Alliance
- Camarines Norte State College
- Camiguin State Polytechnic College
- Caraga State University
- Catanduanes State University
- Cavite State University
- Central Bicol State University of Agriculture
- Central Luzon State University
- Central Mindanao University
- Climate Change Commission
- Dacutan Farmers Association Multi-Purpose Cooperative
- Department of Agrarian Reform
- DA – Bureau of Agricultural Research
- DA – Bureau of Fisheries and Aquatic Resources
- DA – Bureau of Plant Industry
- DA – Bureau of Soils and Water Management
- DA– Information Technology Center for Agriculture and Fisheries
- DA – Regional Crop Protection Centers
- DA – Regional Field Offices
- DA – Regional Integrated Agricultural Research Centers
- Department of Education
- Department of Environment and Natural Resources
- Department of the Interior and Local Government
- DOST-Advanced Science and Technology Institute
- Dr. Emilio B. Espinosa Sr. Memorial State College of Agriculture and Technology
- Father Saturnino Urios University
- Food and Agriculture Organization - Philippines
- Gawad Kalinga
- Isabela Seed Growers Association
- Isabela State University
- Indonesian Center for Rice Research
- International Rice Research Institute
- Japan International Research Center for Agricultural Sciences
- Korea Project on International Agriculture
- Laguna State Polytechnic University - Siniloan
- Los Baños Science Community Foundation, Inc.
- Mariano Marcos State University
- Motortrade
- Multi-Sectoral Alliance for Development Negros
- Naanos Nga Mannalon Inc.
- Nagaget Nga Mannalon Association Inc.
- Nagoya University, Japan
- National Economic and Development Authority
- National Institute of Agricultural Botany, United Kingdom
- National Institute of Agricultural Environment Sciences, Tsukuba, Japan
- National Irrigation Administration
- Nicolas L. Galvez Memorial National High School
- Nueva Vizcaya State University
- Kumon Farmers Association
- Palayamanan Plus sa San Rafael Bulacan
- Pampanga State Agricultural University
- Phil-Sino Center for Agricultural Technology
- Philippine Army - 36<sup>th</sup> Infantry Battalion (Surigao del Sur)
- Philippine Atmospheric, Geophysical and Astronomical Services Administration
- Philippine Center for Postharvest Development and Mechanization
- Philippine Crop Insurance Corporation
- Philippine Statistics Authority
- Pioneer
- Polytechnic University of the Philippines - Mulanay, Quezon
- Producers Bank
- Quirino State University
- RiceBIS Negros Agrarian Reform Cooperative
- Romblon State University
- Ropali Trading
- Roxas Hybrid
- Rural Bank of Midsayap
- Rural Bank of San Mateo
- Rural Improvement Club, San Mateo, Isabela
- sarmap
- Sitio Timawa Organic Farmers Association
- SL Agritech Corporation
- Sorsogon State College
- Southern Cagayan Research Center
- Southern Philippine Agri-Business and Marine and Aquatic School of Technology
- Surigao del Sur State University
- Surigao State College of Technology
- Syngenta
- Technological University of the Philippines
- Tison Aida Farmers Association
- Tulay sa Pag-unlad, Inc.
- United States Agency for International Development
- University of Milan
- University of Southern Mindanao
- University of the Philippines Los Baños
- Yuan Longping High-Tech Agriculture Co., Ltd.

## Municipal/City LGUs

- Allacapan, Cagayan
- Asuncion, Davao del Norte
- Batac City, Ilocos Norte
- Braulio E. Dujali, Davao del Norte
- Cabadbaran City, Agusan del Norte
- Carmen, Davao del Norte
- Daraga, Albay
- Esperanza, Agusan del Sur
- Camalig, Albay
- Guagua, Pampanga
- Guinobatan, Albay
- Laoac, Pangasinan
- Legazpi City, Albay
- Ligao City, Albay
- Maddela, Quirino
- Maria Aurora, Aurora
- Midsayap, North Cotabato
- Murcia, Negros Occidental
- New Corella, Davao del Norte
- Oas, Albay
- Talavera, Nueva Ecija
- San Fabian, Pangasinan
- San Mateo, Isabela
- San Rafael, Bulacan
- Sariaya, Quezon
- Sto. Tomas, Davao del Norte
- Quirino, Isabela
- Tagum City, Davao del Norte
- Victorias City, Negros Occidental
- Zaragoza, Nueva Ecija

## Provincial LGUs

- Albay
- Agusan del Norte
- Aurora
- Cagayan
- Ilocos Norte
- Isabela
- Kalinga
- Laguna
- Negros Occidental
- North Cotabato
- Nueva Ecija
- Sarangani
- Surigao del Norte
- Surigao del Sur
- Quezon









We are a government corporate entity (Classification E) under the Department of Agriculture. We were created through Executive Order 1061 on 5 November 1985 (as amended) to help develop high-yielding and cost-reducing technologies so farmers can produce enough rice for all Filipinos.

With our "Rice-Secure Philippines" vision, we want the Filipino rice farmers and the Philippine rice industry to be competitive through research for development work in our central and seven branch stations, coordinating with a network that comprises 59 agencies strategically located nationwide.

We have the following certifications: ISO 9001:2008 (Quality Management), ISO 14001:2004 (Environmental Management), and OHSAS 18001:2007 (Occupational Health and Safety Assessment Series).

**PhilRice Central Experiment Station;** Maligaya, Science City of Muñoz, 3119 Nueva Ecija; Tel: (44) 456-0277 • Direct line/Telefax: (44) 456-0354; Email: [prri.mail@philrice.gov.ph](mailto:prri.mail@philrice.gov.ph); PhilRice Text Center: 0917-111-7423; Websites: [www.philrice.gov.ph](http://www.philrice.gov.ph); [www.pinoyrice.com](http://www.pinoyrice.com)

#### BRANCH STATIONS:

**PhilRice Agusan,** Basilisa, RTRomualdez, 8611 Agusan del Norte; Telefax: (85) 343-0768; Tel: 343-0534; 343-0778; Email: [agusan.station@philrice.gov.ph](mailto:agusan.station@philrice.gov.ph)  
**PhilRice Batac,** MMSU Campus, Batac City, 2906 Ilocos Norte; Telefax: (77) 772- 0654; 670-1867; Tel: 677-1508; Email: [batac.station@philrice.gov.ph](mailto:batac.station@philrice.gov.ph)  
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