



CvSU attends DOST-PCAARRD 8th anniversary

The Cavite State University (CvSU) officers and staff attended the 8th anniversary of the Department of Science and Technology - Philippine Council for Agriculture, Aquatic, and Natural Resources Research and Development (DOST-PCAARRD) last June 19 held at the Philippine International Convention Center (PICC), Pasay City. The activity, with the theme, “PCAARRD@8: Addressing Regional Needs through Sustained Partnership” was attended by DOST Secretary Fortunato T. dela Peña.

CvSU delegates include Dr. Ruel M. Mojica, vice president for Research and Extension; Dr. Marilyn M. Escobar, consortium director of the Southern Tagalog Agriculture, Aquatic and Resources Research, Development and Extension Consortium (STAARRDEC), regional coordinators, Ms. Lorna C. Matel on technology transfer, Dr. Mariedel L. Autriz on research and development, and Prof. Poinsettia A. Vida on knowledge

(continue on page 2)



Dr. Marilyn Escobar with other consortium directors

LIKHA 2019's best docufilm recognized

Following LIKHA 2019's seminar workshop on documentary production held on April 25, 2019, screening and awarding of winners for the best documentary film was held on May 28 at the SM Rolle Hall with seven (7) student-produced documentaries on coffee as entries.

These documentary films featured different faces of the Philippine coffee industry focusing on testimonials of its various key players, and the country's rich coffee history, status and struggles. How coffee evolved and revolutionized in the country

(continue on page 2)

CEMDS concludes DAR-funded project

The College of Economics, Management and Development Studies (CEMDS), thru the Agriculture Extension Service team led by Dr. Nelia E. Feranil, with Dr. Marlon A. Mojica, Prof. Rowena R. Noceda, Prof. Ma. Soledad M. Lising, and Ma. Grasya M. Tibayan as members, completed its tie-up project with the Department of Agrarian Reform (DAR) dubbed, “Climate Resilient Farm Productivity Support to Agrarian Reform Beneficiaries Organizations of Cavite thru Vermicompost Production and Environment-Friendly Farming Technologies” last March.

(continue on page 3)

GETTING TO KNOW...

MR. RONALD C. BAGASIN

Mr. Ronald Bagasin is a casual Administrative Aide I (utility worker) who has been working with the University for more than 20 years. He started as a laborer on job order status in 1995 at the Research Center. Currently, he is assigned at the Central Experiment Station (CES), Research Center.

Mr. Bagasin was born in Indang, Cavite on March 3, 1973. He had his elementary education at Indang Central Elementary School. He is 46 years old, married to Soledad Crisostomo and has four children, Christian, Christy, Christopher and Chrisnel. Presently, his family resides in Kayquit, Indang, Cavite.



IN THIS ISSUE

CAS-Bee holds 5th training set	2
CCJ holds proposal writing seminar-workshop	3
CAS-Bio students present papers at PSP National Conference	4
ITSO conducts IP roll-out talk	4
ITSO staff attend IP fora	5
CAFENR conducts students' in-house review	6



VISION

The premier university in historic Cavite recognized for excellence in the development of globally competitive and morally upright individuals.



MISSION

Cavite State University shall provide excellent, equitable, and relevant educational opportunities in the arts, sciences and technology through quality instruction and responsive research and development activities.

It shall produce professional, skilled and morally upright individuals for global competitiveness.



QUALITY POLICY

We Commit to the highest standards of education, Value our stakeholders, Strive for continual improvement of our products and services, and Uphold the University's tenets of Truth, Excellence and Service to produce globally competitive and morally upright individuals.

CAS-Bee holds 5th training set

A three-day training on beekeeping was conducted by the extension group of CAS Bee (Community Adoption and Strengthening of the CvSU Bee Program) under the College of Arts and Sciences' R&E Agenda on May 9, 15, and 16, 2019 at Brgy. Calumpang Lejos, Indang, Cavite. Titled, “*BEEyond the Hive: Introduction to Beekeeping*”, the seminar series was done with the initiative of Prof. Michele T. Bono, the project leader of CvSU Bee Program, Prof. Dickson N. Dimero, the project coordinator, Ms. Sherine M. Cruzate and Ms. Jamaica Q. Espineli, committee members, alongside Dr. Bettina Joyce P. Ilagan, the college dean and other faculty members.

On the first day of the training, Mr. Constancio Telmo, Jr., the barangay chairperson of Calumpang Lejos, welcomed the participants and discussed the partnership between the barangay and CvSU. Prof. Bono introduced the CvSU Bee Program and Bee Biology to the participants while Prof. Dimero discussed beekeeping and bee plants. On the second day, common pests,

diseases, issues and concerns in beekeeping as well as bee products and value-added products were discussed by Prof. Bono. Moreover, rearing of stingless bees and bee management were presented by Prof. Dimero. An open forum followed each session. On the third day, the participants had hands-on activities such as transferring of feral colonies to hives, *bao*-technology, and splitting of colonies held at the farm of Mr. Chito Herrera, a barangay councillor of Calumpang Lejos. Assessment and evaluation of bee forage were also done.



Hands-on activity of the participants

Participants including 20 residents of Calumpang Lejos, Daine, Alfonso, and Magallanes, Cavite were given certificates of completion after the training. (MTBono)



The trainers and participants after the 3-day training



Awarding of certificates to the participants

CvSU attends PCAARRD's ... (from page 1)

management; Dr. Teddy F. Tepora, Innovation and Technology Support Office (ITSO) manager; and Ms. Emeline C. Guevarra, ITSO technical staff.

The activity was also attended by different SUCs, regional consortia, and other agencies on agriculture.

DOST-PCAARRD has been a partner of CvSU for years in several research projects developing technologies to extend to the community. (LCMatel)



The CvSU delegates

LIKHA 2019's best ... (from page 1)

was also revealed. Participating entries came from different colleges/campuses and disciplines, some of which were *Kopinoy Kultura* (BS Economics – College of Economics, Management and Development Studies – CEMDS), *Kapeng Amadeo* and *Coffee BREAK* (AB Journalism – College of Arts and Sciences – CAS), and *Coffeeyekto: Blending Research and Experience in Brewing the Filipino's Paradigm* (BS Information Technology – CvSU-Rosario Campus).

Mountain Brew (AB Journalism – CAS) emerged as the Best Documentary, Best in Cinematography, and the People's Choice Awardee. This film featured the story on the production of *kapeng alamid* in Mt. Manabu as narrated (continue on page 6)



LIKHA 2019 participants and organizers with the resource speaker

CCJ holds research proposal writing seminar-workshop

The College of Criminals Justice (CCJ), thru the initiative of its officer-in-charge, Dr. Susan G. Tan, and the college research coordinator, Dr. Marissa C. Lontoc, conducted a two-day seminar-workshop on writing gender responsive research proposals last June 24-25 at GAD Resource Center (GAD RC) Training Room. This was designed to help faculty members and students to write quality proposals for funding of the University and/or external funding agencies within the next academic year.

Attended by more than 20 participants, the said seminar-workshop started with an orientation on gender sensitivity by Ms. Shirlyn M. Rom-Leachon, admin staff of GAD RC. This was followed by a talk from Dr. Marietta C. Mojica, the GAD chair for Research, on the integration of gender in research and the basic structure of a research proposal as well as tips on idea generation and choosing a topic for research. Designated faculty researchers, Dr. Isaias A. Banaag and Dr. Renato N. Pelorina, respectively gave lecture-writeshops on crafting the Introduction, Review of Literature, References and Appendices of the research proposal.

On Day 2, Dr. Agnes C. Francisco, designated faculty researcher, was in charge of the following topics for the lecture-



Faculty and student participants take a pose with Dr. Agnes Francisco after her talk on crafting the methodology of a research proposal

writeshop on preparing the Methodology, creating a time scale for the research project, and crafting the proponent’s biographical sketch. She also discussed the components of a research team and ethical standards in research. Ms. Sally A. Roguel, admin staff of the Research Center, facilitated the workshop on preparing budgetary requirements for the research proposal and identifying sources of research support. Open forum and feedback elicitation followed each session.

Outputs during the writeshop are expected to be submitted to the Research Center for evaluation and possible funding. (SGTan)



Dr. Marietta Mojica as she discusses the integration of gender to research



Participants attentively listen as Ms. Shirlyn Rom-Leachon orients them on gender sensitivity

CEMDS concludes DAR ... (from page 1)

This one-million project funded by DAR-Cavite which spanned for almost a year was conducted in five agrarian reform beneficiary organizations, namely: Batas Agrarian Reform Cooperative (Batas, Silang, Cavite), Bulalo Damayan Multipurpose Cooperative (Iruhin East, Tagaytay City, Cavite), United Caragao Farmers, Incorporated (Malinta, Sampaloc, Dasmariñas City), Talipusngo Magallanes Agriculture Cooperative (Talipusngo, Maragondon, Cavite), and Pacheco Agrarian Reform Cooperative (Pacheco, Magallanes, Cavite).



The CEMDS faculty with the farmer beneficiaries

With the concerted effort of CEMDS faculty members, the project was designed to increase the awareness of the farmer beneficiaries on the effects of climate change, increase their knowledge on the use of environment-friendly technology, and improve their skills in proper farm recording and reporting.

Three phases were involved in the execution of the project: pre-implementation where planning session with the beneficiaries was conducted; implementation stage and post-implementation. In the implementation phase, different activities were undertaken. Seminar workshops on agricultural practices for sustainable agriculture were held. Topics in the said seminar workshop include: Soil Management, Waste Management and Environment Friendly Practices, Risk Reduction Management, Climate Change Awareness Raising, Adaptation and Mitigation. Farmer beneficiaries and their family members were also trained on environment friendly farming technologies. The technologies delivered by experts from the University were vermicomposting, and preparation of Lactic Acid Bacteria Serum and fish amino acid. Proper farm recording and reporting was also part of the training workshop. Farm demonstrations were established in five areas. These were planted with different crops such as corn, rice, cassava and mixed vegetables (okra, eggplant, string beans, tomatoes and sili). The different agricultural practices and technologies learned in the trainings were (continue on page 5)

CAS-Bio students present papers at PSP National Conference

Three (3) BS Biology students of the College of Arts and Sciences (CAS) presented their thesis during the Philippine Society of Parasitology, Inc. (PSP) 11th Scientific Meeting held last June 28-29 at Henry Sy Sr. Hall, De La Salle University Taft Avenue, Manila. The two-day scientific meeting started with a plenary session on Day 1 with experts in Parasitology discussing problems and challenges in parasitic infections as well as projects and researches done to address these problems. On Day 2, poster viewing and parallel session for oral presentations for professional and students were held with the theme: *"Parasitic Neglected Tropical and Zoonotic Diseases in the Context of One Health: Updates, Challenges and Opportunities"*.

Jonathan S. German, Jr. won 3rd place in the poster



Jonathan S. German, Jr. receiving the award for 3rd best in Poster Presentation

presentation with his paper titled: *"Detection of Entamoeba spp. and Giardia spp. and its Correlation with the Physicochemical Properties of Water in Labac-Alemang River, Cavite"*.

Similarly, Katrina Deanne P. del Mundo

also presented a poster, with 12 other poster presenters. On the other hand, Xyra Jane Rama joined the oral presentation together with all other eight presenters from the University of the Philippines Los Banos (UPLB), Southern Luzon State University (SLSU), and Ateneo de Manila University (AdMU). She presented her paper titled, *"Detection of Parasites in Poultry (Gallus gallus domesticus) and River Water and its Correlation with the Physico-chemical Characteristics of Water in Selected Rivers in Indang, Cavite"*. These students were under the supervision of Prof. Michele T. Bono and Prof. Dickson N. Dimero (MTBono)



Katrina Deanne P. del Mundo presenting her poster



The student presenters together with their thesis advisers, Prof. Michele Bono and Prof. Dickson Dimero

ITSO conducts IP roll-out talk

The CvSU Innovations and Technology Support Office (ITSO), through the Enhancing and Operationalizing Intellectual Property Management and Business Development Office (IPM-BDO) project led by Dr. Teddy F. Tepora, conducted orientation seminars on the basics of IP at the College of Economics, Management and Development Studies (CEMDS) and Carmona Campus on April 29 and May 3, 2019, respectively. This is a roll-out seminar for colleges and campuses as part of the Intellectual Property Management Awareness Caravan.

The first seminar, attended by 50 faculty and staff of CEMDS was held at CvSU Hostel Tropicana. Dr. Marietta C. Mojica, the Seminar Coordinator, delivered the welcome remarks while Dr. Marlon A. Mojica, the College Dean, gave a message. Ms. Emeline C. Guevarra (Project Staff) and Dr. Teddy F. Tepora (Project Leader) took part in the presentation of the basics of IP. The former discussed the patents and utility models while the latter on trademarks and copyrights. The forum centered around assisting the needs of the faculty and staff in order to understand the foundations of IP, its description or characteristics, role and function in the society and industry as well as application procedures.

The later part of the program gave way for Dr. Tepora, as University ITSO Manager, to announce the recent BOR approval of the University IP Policy and convey its salient features.

Meanwhile, in Carmona Campus, Dr. Tepora and Ms. Guevarra delivered the IP policy and its basics during the 2nd Student Research Congress of the said campus, with the theme *"I Promote, I Protect, Intellectual Property"*.

The seminar, participated in by 89 faculty and students, was held at the Multi-Purpose Hall from 1:00 – 5:00 in the afternoon. Introduced by Mr. Carlo Emil B. Mañabo, Campus Research Coordinator, Dr. Tepora first delivered his presentation on the overview of IP code and the salient features of IP code, followed by Ms. Guevarra who discussed the basics and forms of IP. Afterwards, an open forum was actively participated in by the students on queries concerning creative works' IP-potential and other issues and challenges that they may encounter. (JPCMagnawa)



ITSO staff attend IP fora

In celebration of the National Intellectual Property Rights month, the University Innovations and Technology Support Office (ITSO) attended two consecutive seminars last April, organized by the Intellectual Property Office of the Philippines (IOPHL).

The first event titled “LEAD: Reaching your IP’s Full Potential through Licensing” was conducted on April 25, 2019 at DLSU-Rufino Campus, Taguig City. Co-organized with Licensing Executives Society, Int’l. – Philippines, the seminar-workshop aimed to build a practical understanding of the core IP and licensing concepts and commercialization and valuation. It also involved an open exchange of views among IP owners, professionals, practitioners and other stakeholders through group discussion and case studies. The morning session was focused on the details of technology transfer and licensing arrangements while in the afternoon, an overview of a franchising model and best practices in brand protection, promotion and commercialization was provided.



Dr. Teddy Tepora (left) and Prof. Emeline Guevarra (right) during the LEAD activity at De La Salle University, Rufino Campus, Taguig City

The second event was the Intellectual Property Convergence 2019 with the theme, “Intellectual Property in Education and Sport” which was conducted on April 26, 2019 at the Peninsula Hotel, Makati City. The morning session’s discussion was led by the key personalities from Commission on Higher Education (CHED), Technical Education and Skills Development Authority (TESDA), and the Department of Trade and Industry (DTI), centering around IP’s value enhancement of the sector they manage. In the afternoon session, stakeholders from the field of sports from various industries, whether government, business and broadcasting, exchanged overviews relating to IP such as trademarks, industrial designs and copyright and other related rights allowing them to extract the value of their products and services. (JPCMagnawa)



Prof. Emeline Guevarra (2nd from left) and Dr. Teddy Tepora (2nd from right) attended the IP Convergence 2019 in Manila Peninsula Hotel

CEMDS concludes DAR ... (from page 3)

utilized in the farm demonstration. Harvest festival was held in each location. Also, vermicompost production was established and managed by the assigned members of the farmers’ organization after the training.

In the post-implementation phase, activities such as cliniquing and review session, sharing of experiences, impact assessment and sustainability planning session were conducted.

An exit conference was held at DAR-Cavite on May 28, 2019. To cap the project, a terminal report was submitted to the funding agency. (RRNoceda)



The researchers and farmers during harvest time of corn

Kaong BROWN SUGAR Production Technology

safe and healthy sweetener

THE PROBLEM

Artificial sweeteners have been debated for years in regard to their damaging side effects. refined sugars aren't healthy either, it can cause diabetes, tooth decay, obesity, heart disease, certain types of cancer and even poor cognitive functioning.

OUR SOLUTION

Indang, a first class municipality that is centrally located in the highlands of cavite, is tagged as the "kaong capital of the philippines" because of the countless kaong trees that thrive along its waterways. Aside from keeping the town's numerous waterways flowing with pure, spring water that gushes down from its dense kaong-hemmed watersheds people in town and at cvsu have made the most of kaong's sweet potential for the production of brown sugar

THE INVENTORS

Dr. Lorenzo C. Lapitan Jr. (Ph.D. Forestry-Silviculture and Forest Influences)
Dr. Marilyn M. Escobar (Ph.D. Crop Processing)
Dr. Fe N. Dimero (Ph.D. Farming Systems)
Mr. Junel G. Llagas (Staff)
College of Agriculture - Food, Environment and Natural Resources (CAFENR)

Kaong trees are abundant yet "underutilized" in Indang, as well as in the neighboring towns of Amadeo, Alfonso and Silang, all in upland Cavite.

Kaong sap, once heated, produces brown sugar, which not only serves as a natural sweetener but contains minerals and a very low glycemic index (GI), as well

Diabetics may now enjoy sweets without having to worry about the sugar in their bloodstream

Market Potential

Recently there has been a trend towards replacing or partly replacing sucrose and other caloric sugars in foods w/ lower calorie or lower glycemic index (GI) substitutes. Kaong Brown sugar is being billed as a healthier alternative to table sugar, especially for people w/ diabetes or other health conditions related to blood sugar

ITEM	QTY	COST per UNIT	TOTAL
Kaong Sap	1000L	15.00	15,000.00
Pouch (500g)	240 Pouches	5.00	1,300.00
Label	240 pcs	3.00	780.00
	Total		17,080.00 Php
Return			
Kaong Brown Sugar 240 Pouch		125.00	32,500.00
Return of Investment (Return-Cost)			15,420.00 Php

Sample Description

Granulated Kaong sugar as received

GLYCEMIC INDEX (GI) based on 25g available carbohydrates

43 ± 3 (Low)

* Analyzed by FNRI

Cvsu is now looking for possible licensee for our Kaong Brown Sugar

Sugar Palm Research, Information and Trade (SPRINT) Center Cavite State University, Indang, Cavite, Philippines
☎ 045 415- 0010 ✉ sprintcenter@cvsu.edu.ph

CAFENR conducts students' in-house review

In support to CvSU's research agenda, the College of Agriculture, Food, Environment, and Natural Resources (CAFENR) conducted an in-house review of the completed student researches, on-the-job trainings, and enterprise development projects (EDP) on June 18, 2019 at CAFENR Audio-Visual Room, Agricultural Science Building. The activity was organized by faculty and staff and participated in by graduating students of CAFENR.

A total of 11 paper presentations and 15 electronic posters were evaluated by Engr. Momed A. Callao of the College of Arts and Sciences – Department of Physical Sciences (CAS-DPS), Dr. Teddy F. Tepora, manager of the Innovation and Technology Support Office (ITSO), and Dr. Mariedel L. Autriz of the CAFENR - Department of Animal Science. The following are the winners of the event:



Ms. Mary Joy P. Mojica (center), 1st Best Thesis winner, poses with the department chairpersons of CAFENR (Left to right: Dr. Eufemio Barcelon, Dr. Adelaida Sangalang, Dr. Magdalena Alcantara, and Mr. Edgardo Gonzales)

AWARD	AUTHOR(S)	TITLE OF PAPER/POSTER
1 st Best Thesis	Mary Joy P. Mojica BS Agriculture Major in Crop Science (Adviser: Dr. Adelaida E. Sangalang)	Control of Coffee Berry Pathogen (<i>Collectotrichum kahawae</i> L.) Using Selected Botanical Extracts
2 nd Best Thesis	John Lloyd Bayani BS Agriculture Major in Animal Science (Adviser: Dr. Cristina F. Olo)	Ovarian Morphology and Follicular Fluid Levels at Different Number of Expressed Estrus in Non-Descript Native Gilt
3 rd Best Thesis	Kristle Anne D. Ambrad, April Tess T. Bautista, & Jhule Miguela B. Mallari BS Environmental Science (Adviser: For. Junser P. Magpantay)	Land Use and Soil Characterization of Ylang-Ylang River Watershed, Cavite, Philippines
Best Poster (Thesis)	Jose Magiting M. Manalili BS Agriculture Major in Animal Science (Adviser: Dr. Magdalena N. Alcantara)	Morphological Diversity Analysis of Wings, Breast, Thighs, Legs, Feet, and Plumage of Native and Other Commercial Duck Breeds
Best Poster (Training)	Kaye V. Palugan BS Food Technology (Adviser: Dr. Eufemio G. Barcelon)	Food Analyst of Food and Food Products at National Food Authority-Food Development Center
Best Poster (EDP-Crops)	Ma. Jena N. Peji & Roselyn F. Glean B Agricultural Entrepreneurship (Adviser: Mr. Jefferson Mojica)	Hot Pepper (<i>Capsicum frutescens</i>) Production and Processing Enterprise

This annual activity of CAFENR is conducted to encourage students to share their outputs and to increase awareness on the importance of disseminating results and information from researches, trainings, and projects. Cash prizes and certificates of recognition were given to the winners. (ADLCero)

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Student participants to the 2019 CAFENR In-House Review

LIKHA 2019's best ... (from page 2)

by *Tatay Tino*, a respected local in Manabu, Sto. Tomas, Batangas. The films, *Millenial Procaffeination* (BS Industrial Engineering – College of Engineering and Information Technology – CEIT) and *BINHI: Kapeng Inumin, atbp.* (AB Journalism – CAS) won the 2nd and 3rd places, respectively.

This activity was graced by Mr. Ian Carlos Simbulan, the executive producer of GMA's *Reporter's Notebook* as he willingly shared his journey as a documentarist intended to further inspire the participants to reveal stories that does not only expose realities but also create positive change of one's way of living.

The success of LIKHA 2019 comes with the concerted efforts of the National Coffee Research, Development and Extension Center (NCRDEC) and CAS. (AJLMagcamit)