



CvSU participates in DOST CALABARZON Tech Transfer Day

Cavite State University (CvSU) recently participated in the Department of Science and Technology's (DOST's) Strategy to Accelerate and Revitalize Technology Transfer (STARTT) in CALABARZON Region: Technology Transfer Day which was held last May 07 via Zoom and Facebook live.

Two (2) technologies from CvSU, out of the 12 technologies chosen for pitching, were presented in the said event. The Low-Cost Automated Smoking Machine (ASMA) Technology by Engr. Gee Jay C. Bartolome, Engr. Vennus Florence N. Vicedo, Dr. Camilo A. Polinga, and Mr. John Patrick D. Buco of CvSU-CCAT Campus was presented first. Addressing the traditional form of producing smoked fish, this technology aims to have advanced processing technologies; hence, targets a wider and even international market of smoked fish industry produced by the locals of Rosario, Cavite. This technology also offers an ASMA mobile application for controlling and monitoring purposes. They presented the (1) comparison of machine cost with existing price that ranges from Php250,000.00 – Php500,000.00 of imported machines and the proposed technology that costs Php150,000.00 – Php250,000.00, (2) pilot testing of the machine

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Bringing the local smoked fish products to the international markets.



Engr. Vennus Florence Vicedo while presenting the ASMA Technology

NCRDEC launches its ergonomically-designed IS

The National Coffee Research, Development and Extension Center (NCRDEC) launched its 4-in-1 ergonomically-designed information system (IS), a Cavite State University Research Grant (CRG)-funded project directed to address the Center's goal of providing an intensified level of stakeholders'

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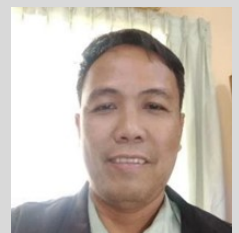
Getting to KNOW...

MR. JOSELITO F. ERSANDO

Mr. Joselito F. Ersando was born on June 14, 1970 in Kayquit, Indang, Cavite. He belonged to the pioneer class of the Experimental Science Class high school curriculum of the Don Severino Agricultural College now Cavite State University (CvSU). He finished Bachelor of Science in Agricultural Engineering with a major in Power and Machineries from the same college in 1992.

Kuya Lito or Tolits to his peers, started working at Cavite State University as Research Assistant on job order basis for the project titled, "Assessment of the Status and Prospect of Organic Coffee Production in the Philippines", a CvSU project with the Department of Agriculture – Bureau of Agricultural Research (DA-BAR) from 2012-2013. He also worked as Science Research Specialist for the Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (PCAARRD) funded project titled, "Creating Growth in the Countryside through Development of Appropriate Technologies on Coffee Production and Processing" from 2013-2017 on a contract of service status.

In 2017, he was hired as an agricultural technician with a permanent status. He was then transferred to the Extension Services and was designated as



Joselito F. Ersando

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VISION

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



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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.

NCRDEC premieres 2021 Coffee B.R.E.A.K. webinar series

The National Coffee Research, Development, and Extension Center (NCRDEC) recently premiered its 2021 Coffee B.R.E.A.K. (Breakthroughs on Research and Extension for the Advancement of Knowledge of stakeholders) webinar series. The first session titled, “Coffee Feelers: Connecting Coffee, Faith, and Language” was held with Ms. Lady Aileen A. Orsal, researcher and faculty member from the Department of Humanities, College of Arts and Sciences, as its resource speaker, last May 20 via Zoom conferencing and streamed live via NCRDEC’s official Facebook page.

Ms. Orsal discussed her personal experiences on how coffee allowed her to have a breakthrough in different aspects of life together with her loved ones. She also encouraged the participants to make this Coffee BREAK session as a breakthrough in finding their path into coffee, faith, and language.



The said webinar session was participated in by less than 100 individuals from private and public institutions around the country and reached more than 4,000 viewers on Facebook. (Antonette Jean L. Magcamit)

CvSU participates in DOST ... (from page 1)

on the actual production, and (3) consideration of end-user, as the target user is usually represented by the aging population. Engr. Bartolome mentioned that the machine was designed as a user-friendly Graphical User Interface (GUI) for easy operation containing four to five buttons. Moreover, the team will also accommodate the local producer’s immediate family in the transfer of technology.

Another technology was presented by Dr. Ruel M. Mojica



Dr. Ruel Mojica while pitching Don Severino's Specialty Coffee Blends

Getting to KNOW ... (from page 1)

head of the Community Engagement and External Relations Division from 2017-2020. At present, he is the head of the Monitoring and Evaluation Division of the unit.

He is married to Arceli B. Ersando and gifted with three daughters, namely: Kristine Nicole, Kristel Anne, and Kimberly Jane. His family resides in Kayquit, Indang, Cavite (Paula Gie C. Ducusin)

titled, “Specialty Coffee Blends,” with co-authors Engr. Rosalie A. Pelle and Engr. Aeron R. Mojica. Although there is high demand for coffee in the Philippines, there is still a noticeable gap between the supply and demand in the country, specifying the estimated annual consumption of more than 100,000 metric tons vs. the production of 30,000 metric tons. Aside from that, health attributes are also considered by the coffee drinkers.

In line with the promotion of the Philippine Coffee with the commitment to help improve the lives of local farmers, CvSU launched its Don Severino's Specialty Coffee Blends with three blends, namely: Anti-Oxidant Enriched, Naturally-Sweetened, and Liberica-Based Coffee. As of now, CvSU has a partner from Mindoro that will export the specialty blends to Southeast Asian countries. Also, Dr. Mojica recognized the role of media to promote the local programs.

In addition, a Certificate of Fairness Opinion was awarded to CvSU and Magallanes Women's Club Multi-Purpose Cooperative (MAWCO) partnership for the commercialization of the “Production of Kaong Brown Sugar” technology.

Overall, this activity, facilitated by DOST-CALABARZON region, aimed to establish linkages between technology generators and end-users to commercialize IPs for the benefit of the society and local industries. (Anna May C. Lontoc)



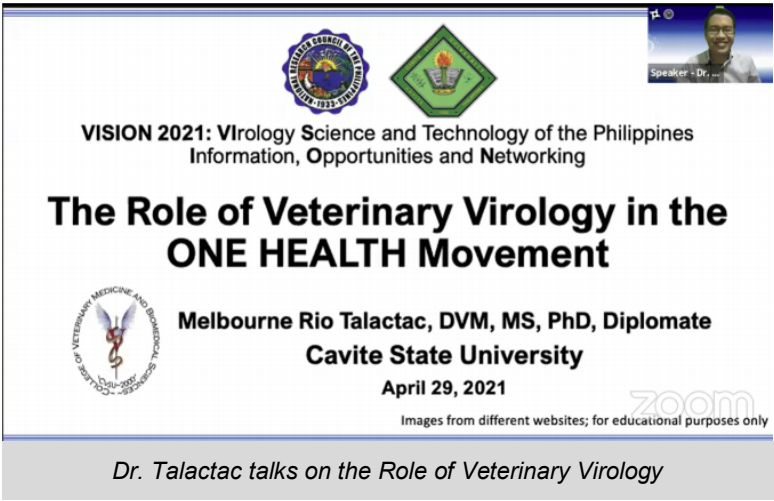
Talactac speaks in three webinars

Dr. Melbourne R. Talactac, vice president for Research and Extension of this university, shared his expertise in different webinars on animal health care and the importance of using vaccines.

As a licensed veterinarian, virologist, and an advocate of the One Health Movement, he talked on “Responsible Pet Ownership” that was aired on the INCTV Program, “Let’s Talk International” on April 14, DALUBHAYOP Tech Talk Series on April 27, and VISION 2021 on April 29, 2021.

In his talk at “Let’s Talk International”, Dr. Talactac highlighted the importance of responsible pet ownership emphasizing that acquiring pets is a lifetime commitment and should not be something that comes from being impulsive. He also talked about population management of pets through neutering (*kapon*) to avoid unwanted young. He further talked about microchipping that will help in identifying pets.

Meanwhile, Dr. Talactac discussed the updated guidelines on canine and feline vaccination in his talk at the DALUBHAYOP



Tech Talk series spearheaded by the *Samahan ng mga Dalubhasa sa Palagamutang Hayop sa Palawan* (DALUBHAYOP), a professional organization of licensed veterinarians in Palawan, that aims to help veterinary professionals and students to be updated on the latest developments, technologies, and skills in different fields of the veterinary profession. He emphasized the importance of vaccination as it stimulates immunity against diseases. He also presented the different timelines on which canines and felines should be vaccinated, as well as the different diseases that can be prevented.

Moreover, Dr. Talactac discussed the importance of virology in his research presentation titled, “The Role of Veterinary Virology in the ONE HEALTH MOVEMENT” during his talk at VISION 2021: Virology, Science, and Technology of the Philippines’ Information, Opportunities and Networking, a webinar series organized by the National Research Council of the Philippines (NRCP) of the Department of Science and Technology (DOST) that aims to establish the Virology Science

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NCRDEC launches ... (from page 1)

accommodation by streamlining its traditional paper-based monitoring and coffee -related information provision processes.

As the name indicates, the system offers four main features integrated in one kiosk: the Visitor Information System that eliminates the use of a log book, instead offers visitors and employees a safe and streamlined digital registration process, a Geographic Information System or GIS mapping that allows users to easily view and locate the coffee trees at NCRDEC coffee demonstration and experimental areas through the provided digital maps and satellite images, the Coffee Morphological Catalogue that lets coffee enthusiasts to digitally access available coffee-related information, and the NCRDEC Web-based Training and Seminar Evaluation System that addresses the Center’s increasing need for an advanced and more efficient program assessment. As mentioned, some of the user-friendly features of the system include the use of a touchscreen monitor and biometric scanner that makes a fast-track check-in for returning clients and a report generation offered in the administration panel that aids in the problem of paper-based record keeping.

Engr. Gerry M. Castillo, director of NCRDEC, added, “*The Center is committed to provide continuously improved services to its valued stakeholders. This is the reason why their wants and needs were carefully considered during the design and development phase of the system to provide features that will guarantee satisfaction in every step of the way.*”

To date, the information system is in its evaluation phase and will be made available for public use soon. (Gizelle D. Crema)



The information kiosk of NCRDEC

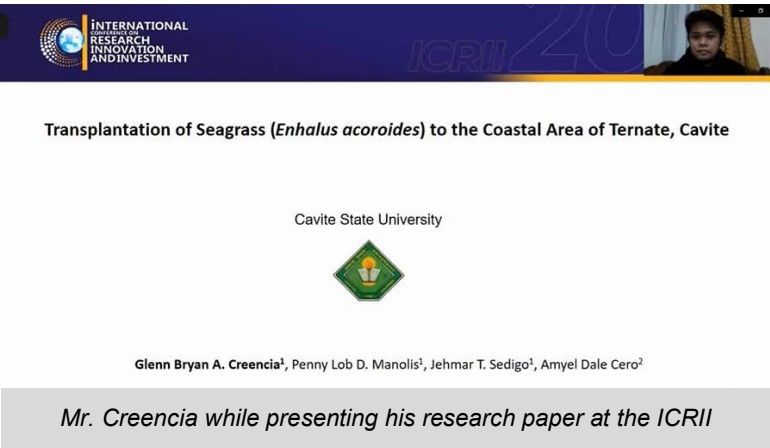
Creencia presents paper at ICRII

Mr. Glenn Bryan A. Creencia, faculty from the College of Agriculture, Forestry, Environment, and Natural Resources and a designated faculty researcher, presented his research paper titled, “Transplantation of Seagrass (*Enhalus acoroides*) to the Coastal Area of Ternate, Cavite” at the 2021 International Conference on Research Innovation and Investment (ICRII) on

May 17-20 via Zoom. The conference was themed, “The Emerging Role of Research, Innovation, and Investment in a Disruptive World”. The paper was co-authored by Ms. Penny Lob D. Manolis, Mr. Jehmar T. Sedigo, and Ms. Amyel Dale L. Cero.

The conference, organized by the University of Science and Technology of the Southern Philippines (USTP) in Cagayan de Oro City, intended to gather researchers, innovators, investors, and policy-makers, and aimed to discuss innovative ideas, current and emerging trends, and best practices and developments for a progressive research and innovation ecosystem. It serves as an avenue for research scientists, industry, and government professionals to discuss and present scientific findings, commercialize research outputs, eye local and international investors, and establish research collaboration and linkages across the globe.

The research paper is part of the ongoing CvSU Research Grant funded project titled, “First Transplantation of Seagrass in Cavite.” The project’s duration is from June 2020 to May 2022. (Melinda B. Eugenio)



Fabregar, Alitagtag publish papers in scopus-indexed journal

Dr. Jake Raymund F. Fabregar and Dr. Jovan B. Alitagtag, faculty from the College of Education, were able to publish their research papers titled, “Organizational Climate in Public High Schools in the Province of Laguna and Lifelong Service of Junior High School Teachers” and “Emotional Intelligence and Leadership Effectiveness of Public Junior High School Heads in the Province of Laguna”, respectively, in the Psychology and Education Journal, one of the Scopus-Indexed journals of Asia-Pacific Consortium of Researchers and Educators. These articles were released last May 05 in Vol. 58 No. 5 (2021) of the said journal with ISSN 1552 – 6939, and are now available at the psychologyandeducation.net – the official website of Psychology

and Education Journal.

Prior to publication, the said papers were presented in the Asia Pacific Consortium of Researchers and Educators (APCoRE) 2020 International Virtual Conference with the theme, “Embracing Change... Forging Ahead” held on December 2-4, 2020. The papers passed the evaluation of the reviewers/referees in terms of scope and relevance.

The researchers and the faculty members of the Teacher Education Department of the College of Education - Cavite State University are looking forward to conducting other research studies for future publications. (Jovan B. Alitagtag)

Talactac speaks ... (from page 3)

and Technology Institute of the Philippines (TIP), which envisions changing the infectious disease research landscape in the country. The One Health concept is a worldwide strategy on the paradigm shift for expanding interdisciplinary collaborations and communications in all aspects of health care for humans, animals, and the environment. Dr. Talactac’s discussion focused on the zoonotic diseases, which can be transmitted from animals to humans, and how veterinary virology mediates the control of the diseases. Moreover, he presented his previous and present research activities involving virology, and emphasized his full

support on the establishment of the Virology Institute of the Philippines (VIP) in order to prevent and solve public health issues; hence, he mentioned that the so-called One Health approach should be considered and utilized. (Gierone Lianni A. Reyes)



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CEd faculty researchers attend SEAMEO 2021

Dr. Rhodora S. Crizaldo, Dr. Jake Raymund F. Fabregar, and Dr. Jovan B. Alitagtag, faculty researchers from the College of Education represented Cavite State University during the virtual Southeast Asian Ministers of Education Organization (SEAMEO) Congress 2021 for Education, Science, and Culture in Southeast Asia with the theme, "Transforming Southeast Asian Education, Science, and Culture in the Digital Age" on April 28-29. The conference, hosted by SEAMEO together with

the Ministry of Education of Thailand and Malaysia, brought together diverse education actors and stakeholders representing the governments of SEAMEO Member Countries as well as public and private educational institutions and agencies.

The faculty researchers presented their research output and knowledge creation titled, "Preparedness of SUC's in CALABARZON in the Implementation of Flexible Learning in the New Normal", a completed project funded by the CvSU Research Grant (CRG). The paper was included in Teaching and Learning Innovation and Research: Research on Digital Learning category. The researchers were among the 103 speakers along with Dr. Diosdado M. San Antonio, Undersecretary for Curriculum and Instruction of the Department of Education (DepEd), Philippines, and other educational leaders and researchers from Southeast Asia.

The congress was co-organized by the United Nations Educational, Scientific and Cultural Organization (UNESCO), Asia and Pacific Regional Bureau for Education of Bangkok, Thailand, SEAMEO Regional Centre for STEM Education (STEM-ED) in Thailand, and SEAMEO Center for Sufficiency Economy Philosophy for Sustainability (SEPS), Thailand. The said event was participated in by more than 10,000 registered participants all over the world. (Jovan B. Alitagtag)



Dela Cruz receives Meryl Williams Fellowship

Dr. Ma. Cynthia R. dela Cruz, dean of the CvSU College of Veterinary Medicine and Biomedical Sciences, together with seven other Filipinos, received the prestigious Meryl Williams Fellowship by the Australian government through the Australian Centre for International Agricultural Research (ACIAR) for her demonstrated capacity for leadership and innovation, research excellence, and commitment to agricultural development. The Meryl Williams Fellowship focuses on supporting women who are steering transformational changes in agricultural research. The Philippines has the most number of fellows for the year, seven out of the 23 selected across nine countries in Asia-Pacific region. The institutions where the Fellows work in will also be supported to address systemic barriers to women's advancement.

Other Filipino Meryl Williams Fellows are Ma. Cecilia Alaban of DOST-PCAARRD, Ma. Victoria Stephane Asio of the University of the Philippines-Los Baños, Dr. Raquel Balanay of Caraga State University, Dr. Cresilda Caning of Central Bicol State University of Agriculture, Dr. Venus Leopargas of Mindanao State University, Naawan, Misamis Oriental, Dr. Maria Rosario Mosqueda of Xavier University-Ateneo de Cagayan, and Dr. Glory Dee Romo of the University of the Philippines-Mindanao.

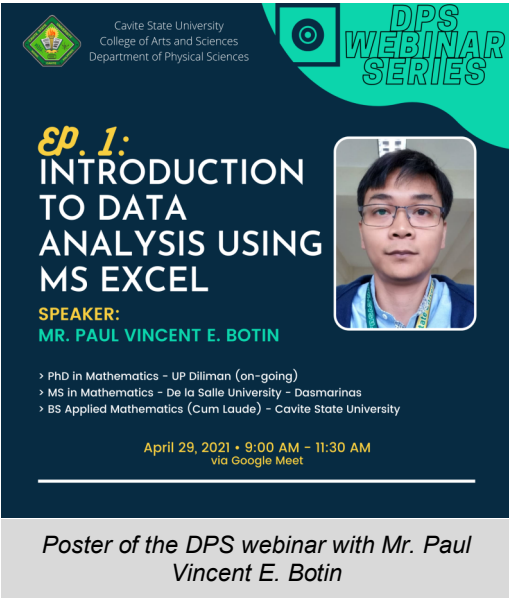
The Meryl Williams Fellowship is delivered by GEAReD (Gender Equity in Agriculture Research for Development) under the University of New England in Australia. The original article was published by the Philippine Canadian Inquirer. (Melinda B. Eugenio)

DPS webinar series kicks off

CvSU College of Arts and Sciences - Department of Physical Sciences (CAS-DPS) Research and Extension unit launched the DPS webinar series with its first episode titled, "Introduction to Data Analysis using MS Excel" last April 29 via Google meet and Facebook live.

Prof. Rene Betonio and Ms. Jennifer Mojica, welcomed the participants and introduced the speaker, respectively. Mr. Paul Vincent E. Botin, faculty member of CAS-DPS, served as the resource speaker. He talked about the statistical features of MS Excel and the ways on how to navigate some basic excel add-ins like MEGASTAT and REALSTATS. These concepts are essential tools that would be of great help to the participants in analyzing the results of their own data as the technique used can be performed using Microsoft Excel.

The webinar was organized by the extension unit of the department with Mr. Andrew J. Siducon as the moderator. Likewise, the said event received an overwhelming response with 138 shares within minutes of live broadcast at the DPS Research and Extension Unit Facebook page. There were 597 participants who answered the evaluation. Three (3) more webinars are scheduled to be held within the month of May. (Lynn G. Penales and Andrew J. Siducon)

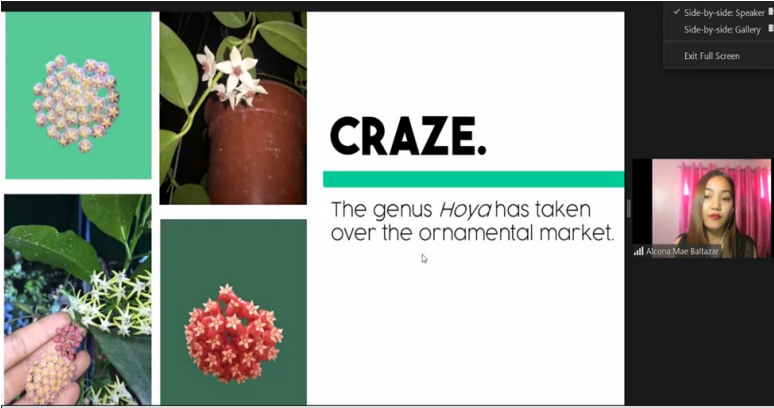


CAS-DBS conducts Plantdemic webinar series

Another feather was added in the already decorated cap of the Department of Biological Sciences as two extension webinars under the “Plantdemic Webinar Series” were conducted on April 7 and 28 via Zoom and Facebook Live.

The first in the series featured Hoyas with its very own faculty member, Ms. Alcona Mae P. Baltazar, as the resource speaker. Her presentation titled, “Plantdemic: Savior or Enemy of Hoyas?” aimed to provide information on the cultivation, propagation, care, and conservation of Hoya plants. The lecture was very informative and comprehensive, especially for those who do not have prior knowledge about Hoya. A raffle draw was also provided for the participants where winners were given Hoya plants by the resource speaker.

The second webinar was about dragon fruits with Dr. Mark Angelo O. Balendres, head of the Plant Pathology Laboratory of



Ms. Alcona Mae P. Baltazar during her presentation

the Institute of Plant Breeding, College of Agriculture and Food Science, University of the Philippines- Los Baños (UPLB), as its resource speaker. His presentation titled, “Diseases of Dragon Fruits in the Philippines and Overseas” provided information on basic planting, propagation and diseases associated with dragon fruits. Overall, the two webinars were both successful as the number of attendees reached over 200. (Liwayway P. Taglinao)



Dr. Mark Angelo O. Balendres during his presentation

BAELS assists distribution of GMES learning modules

The faculty members of the Bachelor of Arts in English Language Studies (BAELS) program of the College of Arts and Sciences – Department of Humanities (CAS-DHum) assisted in the distribution of modules to 21 primary and 10 intermediate students of Guyam Munti Elementary School (GMES) last May 10.

Ms. Jocelyn A. Legaspi, program extension coordinator, together with other BAELS faculty members, led the distribution of materials to Ms. Angel Escantilla, school principal, and the teachers. Proper health protocols like social distancing, wearing of face masks, face shields, and disposable gloves were observed. Due to the limitations caused by the pandemic, the BAELS extensionists were only able to provide a guide on how to handle modules to the target beneficiaries.

BAELS faculty and the senior students worked on the design and draft of the modules for remedial reading. The extension project which is part of the banner program of the college titled “Community Adoption Services: Health, Education and Livelihood Programs (CAS HELPS), started in 2019 and will end in 2022. (Jocelyn A. Legaspi)

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CvSU-CCAT conducts R&E webinars

Despite the extension of the Modified Enhanced Community Quarantine (MECQ) in NCR+ in the past weeks, the Research and Extension team of Cavite State University - CCAT Campus stood up and successfully executed the Extension Webinar 2 and Research Webinars 3 and 4 of the R&E Webinar Series last April 21, 23, and 30, respectively.

Extension Webinar 2 titled, “Strategies to Sustainable University Extension Program” aimed to maximize the potentials of all participants in the extension program opportunities. Top caliber resource speakers boosted the program and made a huge impact to more than 250 participants composed of professionals, faculty members, employees, and other stakeholders from different institutions and agencies across the country.

Engr. Arturo C. Eraña, director of the CvSU Sugar Palm Research, Information and Trade (SPRINT) Center, talked on the “Impact Assessment of the Kaong Extension Program of Cavite State University, Indang, Cavite” which was conducted by the researchers from the University of the Philippines - Los Baños (UPLB). Meanwhile, Engr. Gerry M. Castillo, director of the National Coffee Research, Development, and Extension Center (NCRDEC), discussed the topic, “Empowering Stakeholders Through Transformative Extension Services”. Prof. Michelle T. Bono, program leader of the CvSU Bee Program presented her talk titled, “CvSU Bee Program: Our Colony’s Strategy in Sustaining Community-Based Extension Program”; while Dr. Marilyn M. Elauria, professor from UPLB presented the topics on “Orientation to Impact Assessment Studies” and “Lessons Learned from Impact Assessment Studies” where she imparted her team’s experiences while doing impact assessment.

Engr. Jhunlyn L. Lorenzo, faculty member from the CvSU College of Engineering and Information Technology and a PhilFrance scholar from the Universite Bourgogne Franche-Comte, and Dr. Ernelea P. Cao from the University of the Philippines - Diliman, shared their knowledge and experiences in conducting quantitative research during the conduct of



STRATEGIES TO SUSTAINABLE UNIVERSITY EXTENSION PROGRAMS



DR. MARILYN M. ELAURIA
Professor, CEM, UPLB



ENGR. GERRY M. CASTILLO
Director, NCRDEC



ENGR. ARTURO C. ERAÑA
Director, SPRINT



PROF. MICHELLE T. BONO
Program Leader, CvSU Bee



Thursday, April 22, 2021



via **Cisco Webex**



Live on
fb.com/CCATResearchandExtension



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Poster of the CvSU-CCAT Extension Webinar 2

Research Webinar 3 titled, “Reproducible & Transparent Research”.

Engr. Lorenzo gave an overview on how modern tools in research are used in her job in France to make reproducible and transparent research. She mentioned that as researchers, they should provide sufficient information and make these available to other researchers. She emphasized the word “reproducible” which means that researchers can replicate results using the same procedures. She added that with (continue on page 8)

ANNOUNCEMENTS



Call for Journal Articles

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THE PHILIPPINE COFFEE JOURNAL

CALL FOR PAPERS



ABOUT THE JOURNAL

A first of its kind, the Philippine Coffee Journal is a double-blind, peer-reviewed academic journal which focuses on the results and outcomes of research, development and extension (RDE) activities on coffee conducted by different higher education institutions (HEIs) and other government RDE institutions. It aims to revitalize the Philippine coffee industry through knowledge generation and transfer of technology to the community recognize efforts in the development and promotion of the Philippine coffee industry through information dissemination and publication.

IMPORTANT DETAILS

Who are eligible to submit?

- ✓ Researchers from different SUCs, private HEIs and government agencies
- ✓ Member Institutions of the Philippine Coffee Network
- ✓ Southeast Asian Universities
- ✓ Presentors during the National/ Southeast Asian Coffee Education Congress (NCEC/ SEACEC)

Manuscript Format and Submission

All parts of manuscript should be typed on one side of page, double-spaced on Letter (8 1/2" x 11") typewriting paper with one-inch margin on all sides and consecutively paginated on the upper right hand corner of the page. Arial with 12 point font size is preferred, using Microsoft Word and limited to 30 pages including tables, figures and references.

Manuscript together with the cover sheet should be submitted at philcoffeejournal@gmail.com.

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CvSU-CCAT conducts... (from page 7)

the term transparency, the researchers must divulge the full content and every parameter of the research conducted should be organized with integrity. She also demonstrated different tools in creating bibliography, documentation, data analysis, and presentation all in one place.

Meanwhile, Dr. Cao, UP Scientist 1, presented her research project in expressing the approaches and methods in quantitative research. She emphasized the steps used in scientific inquiry based on observation, preparation of hypotheses, prediction and application of tests, analysis of the results, and drawing of conclusions. Her research project in Genomics and Bioinformatics explained how these steps were applied in the preparation of methodologies and data collection methods for quantitative research.



Dr. Maricar S. Prudente, De la Salle University professor and 2016 National Research Council of the Philippines awardee for exemplary contributions in Basic Research and dedication in Science and Technology education, served as resource speaker in the conduct of Research Webinar 4 titled, “Conducting Research Towards Improving Science Education: Focus on the Mixed Methods Approach”. She shared her expertise and



CvSU-CCAT RESEARCH WEBINAR 4

CONDUCTING RESEARCH TOWARDS IMPROVING SCIENCE EDUCATION:

FOCUS ON THE MIXED METHODS APPROACH



Resource Speaker:

DR. MARICAR S. PRUDENTE
Full Professor 10, De La Salle University

Poster of the CvSU-CCAT Research Webinar 4

perspectives on Effective Science Education, Teaching Science as Inquiry, Online Distance Learning, and Using Mixed Methods Approach in Action Research. She further highlighted the use of action research to address the imbalance brought by CoVid-19 especially in science education. Likewise, she emphasized the use of the tools of science to teach science based on the reliability of information technology to measure learning among digital learners and urged the audience to disseminate and build upon successful innovations to further the learning goals. Furthermore, her presentation also focused on online transition in teaching.

Engr. Gee Jay C. Bartolome, director for Research and Extension of CvSU-CCAT mentioned, “We want to give the best webinar experience that we can give every time”. He also said that there will be more exciting research and extension webinars this year as the team maximizes the features of Cisco Webex Application.

More than 200 participants nationwide actively participated in each webinar via Webex and Facebook live. (Nerissa B. Abug, Michael M. Ramos, Jr. and Bernadette F. Lim)



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