



RDE efforts recognized in the R & E Week 2019

It's a jam-packed celebration of the Research and Extension Week 2019 held last September 18-19.

With the theme *“Accelerating Quality RDE towards Technology Commercialization and Community Development”*, the event aimed to increase stakeholders' engagement in innovative research and extension initiatives, recognize relevant RDE efforts and strengthen partnerships with the industry and community.

The first day was allotted for the presentation of ongoing and completed research and extension projects of the colleges and campuses at the International House I. Aside from a separate paper presentation of the Intellectual Property and Technology Business Management (IP-TBM) participants, several presenters were also awarded for Best Paper and Best Poster. Winners in the research review include: Mr. Jonathan R.

(continue on page 2)



Mr. Catibog while encouraging the participants to protect IPs and transfer technologies

CvSU Carmona R&D bags STCIERD major awards

Making another victorious history in the field of research, Cavite State University (CvSU) – Carmona Campus made a huge milestone after bagging two of the most prestigious awards on the recently concluded Southern Tagalog Consortium for Industry and Energy Research and Development (STCIERD) – 4th R&D Competition last September 13 at RFQSAC Multipurpose Hall, DOST – CALABARZON.

Among the eight presenters in CALABARZON, two out of the three entries of CvSU – Carmona made it to the top three,

(continue on page 5)

ITSO IP-TBM Team conducts project monitoring cum benchmarking in UP-V & CaPSU

The Cavite State University Innovation and Technology Support Office (CvSU ITSO) and Intellectual Property and Technology Business Management (IP-TBM) office conducted a monitoring cum benchmarking activity of IP-TBM offices in the University of the Philippines – Visayas (UP-V) in Miag-Ao, Iloilo and Capiz State University

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Getting to KNOW...

ALBERTO P. CREENCIA

Mr. Alberto “BETO” Creencia is currently assigned at the National Coffee Research, Development and Extension Center (NCRDEC). He started working as utility worker on job order status at the University in June 1996. He was promoted Farm Worker I as permanent employee in January 2004 and was assigned at the Research Center. He has been working with the University for 23 years.

Mr. Creencia was born in Kayquit, Indang, Cavite on August 23, 1969. He obtained his elementary and secondary education at Kayquit Elementary School and Perpetual Cavite Institute, respectively. He studied Bachelor of Science in Agriculture at Don Severino Agricultural College and graduated in 1992. He is now 50 years old, married to Erlic Grace del Rosario who is employed as factory worker at Yozuri in EPZA, Rosario, Cavite. The couple has an only child, Stephanie. Presently, his family resides in Molave St. Brgy. Kayquit, Indang, Cavite.



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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.

RDE efforts recognized ... (from page 1)

Digma (1st place), Ms. Christine Marie P. Bayhon (2nd place) and Dr. Cherry R. Alvarez and Dr. Adrian Miki C. Macalanda (3rd place) for the Agriculture and Life Sciences category; Dr. Cecilia B. Banaag and Dr. Isaias A. Banaag (1st place) for Social Sciences category; and Ms. Sheena Mae C. de Leon, Dr. Camilo A. Polinga (1st place) with Engr. Gee Jay C. Bartolome who also won for 2nd place, and Engr. Edwin R. Arboleda (3rd place) for ICT/Engineering category. Meanwhile, Engr. Bartolome, Ms. de Leon and Dr. Polinga got their second award as their team also won Best Poster in the said activity.

Ms. Michele T. Bono and Mr. Dickson N. Dimero won as Best Extension Paper for “Community Adoption and Strengthening of the CvSU Bee Program” while Ms. Laarnie R. Manuel won as Best Extension Poster for “Community Impact Creation: Evidences from *Gabay Pangkabuhayan* Skills and Training Program”.

The recognition program on the second day highlighted appreciation to the former research and extension directors who have contributed to the advancement of the University's thrusts. Awardees include: Dr. Anastacia M. Bayas, Dr. Manuel B. Matel, Dr. Danilo V. Escaño, Dr. Simeon S. Crucido, Dr. Miguel Ocampo, Dr. Antonio G. Papa, Dr. Josefina R. Rint, Dr. Alejandro dC. Mojica, Sr., Dr. Lorenzo C. Lapitan, Jr., Mr. Ruben M. Astudillo, Dr. Edna dA. Vida, Dr. Ruperto S. Sangalang and Dr. Alexander F. Ferre. In addition, the University also appreciated the following institutions who have supported CvSU's R&E efforts in terms of funding, equipment and other resources: Department of Science and Technology IV-A; DOST-Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development, DOST-Philippine Council for Industry, Energy and Emerging Technology Research and Development, Commission on Higher Education, Cavite Provincial Government, Department of Agriculture-Biotech Program, DA-Bureau of Agricultural Research, Department of Interior and Local Government-CALABARZON, Bureau of Animal Industry and the Provincial Environment and Natural Resources Office.

Vice President for Research and Extension, Dr. Ruel M. Mojica, emphasized that 2019 as a Year of Quality Performance does not only refer to dissemination of research outputs to a wider academic community through presentations and publications but also includes the goal of making them available for utilization through commercialization and community adoption opportunities. The same thoughts were expressed by Dr. Camilo A. Polinga, Vice President for Academic Affairs, who represented Dr. Hernando D. Robles in the said program. He reminded everyone that the measure of success depends on the number of lives improved as they become beneficiaries of the research outputs extended to them.

A message highlighting the value of technology transfer to the community was delivered by Mr. Noel A. Catibog, Officer-in-Charge of the Technology Transfer and Promotion Division, PCAARRD. He further encouraged the participants to look into the priority research agenda and develop technologies that will address the needs of the society.

Inspired by the IP-TBM participants, the afternoon session paved way for the first ever Technology Pitching and Networking Events which gave opportunity for researchers to sell their ideas to industry partners who eventually sat with them in the negotiation tables. Best Pitch was awarded to Rochelle C. Malabayabas for her 3-in-1 BIBO Recycling Machine while Mr. Nhyll Angelo S. Acuña won as Best Poster for the Innovative Fructan Production Technology produced from sugarcane.

Invited community partners and extension units set up booths for the Trade Fair and Exhibit where various innovative products from the different cities and municipalities were showcased. The Office of the Provincial Agriculturist won as Best Booth in the FITS Centers category while College of Agriculture, Food, Environment and Natural Resources won in the College/Campus category.

RDE goals and actions were also captured through a photo contest which awarded the following winners: Jay Paul Felizardo for “Interplaying Hardware and Software: Intensifying Innovation and Research” (Best Photo); Joel S. Eremos for “The S-Curve” (2nd place), Nathaniel Louie Arca for “Luminescence of Ideas” (3rd place), Al Eugene L. Torres for “Sound Engineering for Secured Future of Philippine Coffee” (4th place), Jason Nicolas for “Eight to Twelve Percent” (5th place) and Lorence Lolong for “Wiring the Future” (6th place).

Aside from acknowledging CvSU researchers who have published articles in refereed and reputable journals, certificates were also given to those whose works have been cited by other scholars. The day did not end without the launching of the IP-TBM and Technology Business Incubation offices and the Agri-Eco Tourism Park.

Though the activity is an annual event of the University, the measure of its impact on the community levels up as it gears towards providing more sustainable opportunities for stakeholders. (LAAOrsal)

*In research, we no longer call them respondents.
They are our participants.*

*In extension, we do not only refer to them as clients.
They are our partners.*

*In the University, we do not treat them as customers.
They are our stakeholders.*

And today, we salute them for being the life behind every R&E story.

-Dr. Ruel M. Mojica-

(Excerpts from the FB page of the VP for Research and Extension)



CvSU officials with guests, awardees, participants, faculty and employees during the celebration of R&E Week 2019

RESEARCH and EXTENSION Week 2019



CvSU, Brgy. Calumpang Lejos ink MOU for CAS Bee

A Memorandum of Understanding (MOU) was signed on September 3, 2019 at the CvSU Lasap Hall, between Cavite State University (CvSU) and Barangay Calumpang Lejos, Indang, Cavite, for the offering of responsive bee-related extension activities through the “Community Adoption and Strengthening of the CvSU Bee Program (CAS Bee)” of the College of Arts and Sciences (CAS). CAS Bee has three components: 1) BEEyond the Hive: Introduction to Beekeeping; 2) *Iwi System/Bahay Para sa Lukot*; and 3) Kapit BEEsig. CvSU was represented by its president, Dr. Hernando D. Robles, and Brgy. Calumpang Lejos was represented by its chairman, Hon. Constancio S. Telmo, Jr.

The said MOU signing was made possible through the efforts of the CvSU Bee Program headed by Prof. Michele T. Bono. Also present in the said event were Dr. Ruel M. Mojica, Vice President for Research and Extension; Dr. Camilo A. Polinga, Vice President for Academic Affairs; Dr. Bettina Joyce P. Ilagan, CAS Dean; Mr. Andrew J. Siducon and Ms. Mary Joyce E. Talamante, CAS Extension Coordinators; Ms. Ma.



Dr. Hernando D. Robles and Hon. Constancio S. Telmo, Jr. during the MOU signing

Veronica P. Peñaflorida, CAS-DBS Chair; Prof. Dickson N. Dimero, CvSU Bee Program staff; Ms. Liwayway P. Taglinao, CvSU-DBS Extension Coordinator; Kag. Aniceto A. Herrera and Kag. Cesar Masicap, Barangay Calumpang Lejos councilors; and Ms. Victoria Quedeng, Brgy. Calumpang Lejos secretary.



Donation of 20 Tetragonula Pollination Hives (TPH) to Brgy. Calumpang Lejos farmers for the CAS Bee's Iwi System/Bahay Para sa Lukot

Aside from the MOU, a Deed of Donation was also signed for 20 *Tetragonula* Pollination Hive (TPH) boxes donated by the CvSU BS Biology Batch 2001 Alumni represented by Ms. Rhodora G. Hosoda and Ms. Jennie R. Leonero to the CvSU Bee Program represented by Dr. Hernando D. Robles and Prof. Michele T. Bono. The said hives will be used for the second component of CAS Bee, the *Iwi* system/*Bahay para sa Lukot*, with Calumpang Lejos farmers as recipients. Brgy. Calumpang Lejos, Indang, Cavite, is the first community adopted by the CAS Bee. (DNDimero)

CvSU-CCC conducts IP seminar

“Using intellectual property to your advantage can bring you much fortune,” thus said Ms. Emeline C. Guevarra, technical staff of CvSU's Innovation and Technology Support Office (ITSO) during the CvSU Cavite City Campus Faculty and Staff Development Program last September 9 at the campus library.

The seminar on the Basics of Intellectual Property was part of the CvSU-CCC's 18th Founding Anniversary and Campus Intramurals '19 last September 9 to 13.

Intellectual property refers to creations of the mind such as inventions, literary and artistic works, designs and symbols, names and images used in commerce.

Ms. Guevarra tackled seven major areas of concern on intellectual property namely, copyright and related rights, layout-designs of integrated circuits, geographic indications, trademark and service marks, trade secrets, industrial designs, and patents. She also clarified that intellectual property rights have geographical and time limits.

“IP is territorial in nature. It means that the protection is by country,” she said. “It has also time limits, which means that the protection is for a limited period of time only,” she added.

In the course of the lecture, the speaker cited well-known local and international cases involving intellectual



Ms. Ma. Cristina Baesa with Ms. Emeline Guevarra during the IP Awareness seminar

property concerns. She also highlighted prominent educators who have successfully copyrighted and patented their outputs, and how they practically reaped good fortunes out of them.

Time and again, Ms. Guevarra urged the participants to be aware of the many areas of their lives in which they may be producing something that qualifies as intellectual property. After giving a comprehensive exposition on intellectual property rights, the speaker challenged the faculty and staff to innovate, conduct research and studies, and ensure that the outputs are copyrighted, patented and protected.

Most of all, she reminded them to actively market their intellectual property. (MCJBaesa and JJJangad)

ITSO conducts IP-Expedite

The Innovation and Technology Support Office (ITSO) conducted a training dubbed as “IP-Expedite: Innovations Readiness Series” with Dr. Teddy F. Tepora, Manager of ITSO, as resource speaker. The training was conducted at the National Coffee Research, Development and Extension Center (NCRDEC) on July 29 - August 1, 2019. The participants were those with technology disclosures submitted to ITSO. They also underwent training on the basics of intellectual property through attendance to IP-Ignite and patent search and patent drafting through attendance to IP-Unite which was conducted earlier this year.

The training consists of modules that provide tips and examples from real technology commercialization experience in areas such as intellectual property protection, market validation, assessing the competition, and pitching an innovation. It also aimed to bring together selected CvSU researchers to engage in hands-on practice and study of the latest methodologies in the field of technology commercialization.



Dr. Tepora and Ms. Guevarra with the participants of the IP Expedite training

Topics covered during the training include commercialization strategies, processes, and models; conducting primary and secondary source research for market validation; intellectual property searches and protection; negotiations for tech transfer; technology valuation; licensing; venture finance; and technology transfer office resources and operations. (TFTepora)

CvSU Carmona R&D ... (from page 1)

securing the second and the third spots. Soil and Nutrient Analyzer (SONA), a technology developed by Mr. Gerry Prado, Mr. Dennis Tabucol, Ms. Omega Gresola, and Mr. Richard Hernandez, ranked second while CARSIKLO Machine, developed by Ms. Rochelle Malabayabas, Mr. John Benneth Abuan, Ms. Lea Marissa S. Domingo and Ms. Regene Hernandez, placed on third; thus, putting CvSU to the spotlight despite being first time participants on the said event.

On the other hand, Mr. Jonell Ocampo, Mr. Mark Anthony Abril, Mr. Carlo Emil Mañabo and Mr. Earl Cyril Rosaldo also presented their study titled, “Vegetable Seed Germinator” in the said consortium.

Upon acing the two spots, CvSU – Carmona was also able to bring home Php 50,000 worth of prizes, Php 30,000 and Php 20,000 for the second and third place, respectively.

Also present during the event were Dr. Alexander Madrigal, DOST regional director-CALABARZON, Dr. Ruel M. Mojica, CvSU VP for Research and Extension, and Dr. Yolanda A. Ilagan, CvSU director for Research and former dean of CvSU-Carmona. The STCIERD R&D competition was participated in by different colleges and universities within CALABARZON to battle for the best research and technology. (CEBMañabo)



Winners from CvSU-Carmona receiving their awards during the STCIERD 4th R&D competition



Faculty researchers of CvSU–Carmona campus with Dr. Ruel Mojica and Dr. Alexander Madrigal (left) and with Dr. Yolanda Ilagan and Dr. Ruel Mojica (right)

CCJ participates in the 6th National Criminology Students Congress

Four students of the College of Criminal Justice (CCJ) participated in the research paper and poster presentation during the 6th National Criminology Students Congress held at De La Salle University – Dasmariñas (DLSU-D), Dasmariñas City, Cavite last September 18-20. The activity was organized by the Professional Criminologists Association of the Philippines (PCAP) with the theme, “*Shaping the Philippine Criminology Profession, Our Mission, Our Obligation.*”

John Allen Mendoza and Rose Ann Valerie Fabriga presented their research papers titled, “Performance and Competency of Barangay Police in Maintaining Peace and Order” and “Knowledge and Attitude on Smoke-Free Environment of Selected Residents in Indang, Cavite”, respectively. Meanwhile, Leo Joshua Lodripas and Jester Asistores participated in the research poster competition with their researches titled, “Development of Crime Map Based Mobile Application for Crime Resilient Community in Indang, Cavite” and “Effectiveness of Philippine National Police Basic Internal Security Operation Course to the Graduates of Regional Special Training Unit 4-A”, respectively.

This was the first time that CCJ students participated in such an activity which aimed to expose them, gain more knowledge in the discipline, experience the joy of mentoring,



Dr. Matic with CCJ faculty and student participants

meet colleagues and challenge potentials. Some students competed in other categories and out of 39 competing schools, Ms. Jhammil Cielo Ambulo, a fourth year student, bagged the Outstanding Criminology Student of the Philippines award. Other awards received were: 1st runner-up in debate, handwriting identification and M16 assembly/disassembly competitions.

Present during the congress were Dr. Famela Iza C. Matic, CCJ dean, Dr. Marissa C. Lontoc, Mr. V-jay S. Eusebio, Ms. Silkie C. Tuguinay, Mr. Ian Christian B. Filipino, Ms. Alexis R. Alcantara, Mr. Marco Victor P. Mendoza, Mr. Carlito Gener, Mr. Erwin B. Gonzales, Ms. Justice DC. Tristeza, Ms. Divine Grace V. Francisco and Ms. Khryzl C. Mojica, CCJ faculty members. (MCLontoc)



CCJ students presenting their research papers



CCJ students with their poster presentations

ITSO IP-TBM team ... (from page 1)

(CapSU) in Roxas, Capiz on August 13-16, 2019.

During the visit, Dr. Concepcion P. Ponce, director of UP-V Technology Transfer and Business Development Office (TTBDO), and her staff showed the different projects of UP-V which include bamboo processing project and different laboratories in the university. Ms. Mylin Leghid, UP-V Technology Business Incubation (TBI) manager, oriented the team on the operation of the TBI project and toured the participants in their new building and other facilities. The team met one of the incubatees venturing in the commercialization of fish feed from algal paste. The team also had the opportunity to visit some cultural sites in Iloilo City.

In CapSU, the team was welcomed by Dr. Editha C. Alfon, CapSU President, Dr. Lucy A. Beluso, VP for Research and Extension, and Engr. Efren L. Linan, IP-TBM project staff. They were also oriented on the operations of CapSU IP-TBM and TBI and had a tour around the campus and within Capiz City.

Both CapSU and UP-V have good facilities for nurturing their technologies towards commercialization. The newly inaugurated building devoted for IP-TBM and TBI indicates that the management is in full support of their IP and technology commercialization initiatives. The CvSU management can also apply the good practices of CapSU and UP-V to accelerate commercialization of CvSU technologies. (TFTepora)



CvSU IP-TBM team with Dr. Editha Alfon, Dr. Lucy Beluso and Engr. Efren Linan of CapSU



CvSU IP-TBM with Dr. Concepcion Ponce and Ms. Mylin Leghid of UP-V

CvSU ITSO participates in 2019 Annual ITSO GA

The Cavite State University Innovation and Technology Support Office (CvSU ITSO) participated in the 2019 Annual ITSO General Assembly (GA) organized by the Intellectual Property Office of the Philippines (IPOPHL) last September 5-6 held at Our Lady of Fatima University (OLFU) – San Fernando, Pampanga. Representing CvSU were Dr. Teddy F. Tepora, ITSO manager and Ms. Emeline C. Guevarra, ITSO technical staff.

The annual GA aimed to update the ITSO universities of the current developments and status of the ITSO project. It was a culmination of a series of focus group discussions to be held for an entire year. At the GA, the IPOPHL, ITSO heads, and other stakeholders discussed plans and programs to move the ITSO member-institutions as catalysts in fostering innovation as well as share best practices in operating ITSOs, promote

research activities, ensure the quality of research, and confer about issues and concerns related to IP.

These ITSOs are universities or higher educational institutions committed to house patent libraries and assist innovators from patent search and drafting services to the prosecution of patent applications.

One of the goals of the ITSO initiative is to protect IPs generated in universities and follow them through commercialization and technology transfer. The project was first conceptualized by IPOPHL in 2010 envisioned as a network of local institutions that can guide budding innovators throughout their IP journey.

Being frontliners to IP stakeholders, ITSOs continuously go through capacity training and workshops to elevate the quality of their services. (TFTepora)



The members of the ITSO Network with the officials and management staff of IPOPHL



Dr. Teddy F. Tepora and Ms. Emeline C. Guevarra at OLFU

CvSU JHS students awarded YIP grant

Grade 10 students from the Cavite State University Laboratory Science High School (CvSU LSHS), namely: Androu Royce G. Dizon, Kaela Monique M. Dy, and Bernadette Pascua-Pamular, and their mentor Engr. Sheryl D. Dinglasan-Fenol, were awarded the 2019 Young Innovators Program (YIP) grant of the Department of Science and Technology – Philippine Council for Industry, Energy and Emerging Technology Research and Development (DOST-PCIEERD) for their study titled, “EGxiting: Egg Grading, Sorting, and Sexing using Image Processing and Artificial Neural Network”. Among the 13 finalists, their study was initially chosen from 90 entries all over the country to be presented to panel of evaluators last July 8 at DOST – Advanced Science and Technology Institute (ASTI) in Quezon City. Upon thorough evaluation, the group was selected as one of the seven grantees of YIP. The awarding ceremony was held last July 16 at The Heritage Hotel, Pasay City. The grantees will receive funding support for their study and allowance for 12 months.

The signing of Memorandum of Agreement (MOA) between DOST-PCIEERD represented by its executive director,

Dr. Enrico C. Paringit, and CvSU represented by Engr. Fenol was held last September 23 at DOST-Metals Industry Research and Development Center (MIRDC), Bicutan, Taguig City. Dr. Ruel M. Mojica, CvSU VP for Research and Extension, Ms. Teresita M. Samonte, CvSU LSHS principal, and parents of the student grantees also signed the MOA.



Engr. Sheryl Fenol with the student grantees during the awarding

YIP is a program under DOST-PCIEERD launched in 2017 that provides funding support to students who wish to gain research experience by engaging in research activity under the supervision of a mentor and is now on its third year where CvSU is the only grantee from Region IV-A. (SDFenol)



The JHS students during their paper presentation (left) and the YIP student grantees during the MOA signing (right)

Ebo wins Huzhou University Research Award at 2nd ACBES in Vietnam

Dr. Jenny Beb F. Ebo, a faculty member of the Cavite State University College of Economics, Management and Development Studies (CvSU CEMDS), emerged winner for the Best Paper, also tagged as Huzhou University Research Award, during the 2nd Asia Conference on Business and Economic Studies (ACBES) 2019 organized by the Journal of Asian Business and Economic Studies (JABES) and the University of Economics Ho Chi Minh City (UEH) which was held on September 13-14, 2019 at UEH, Ho Chi Minh City, Vietnam.

Participated in by delegates from different countries in Asia, South Africa, United States of America, Europe, and Australia, the said conference aimed to provide opportunities for researchers to publicize and discuss their findings besides a number of policy implications for business and economic development. Focusing on topics on any areas of business and economics relevant to Asia today, paper presenters shared current trends and issues on investment, trade and globalization, banking, finance, business, law, business development, among others. With over a hundred papers vying for the Best Paper Award, Dr. Ebo emerged the winner as she eloquently shared her study on “The Marcov Switching Model in Measuring Food Security in the Philippines”. (ZACatacutan)



Dr. Su Dinh Thanh, editor-in-chief of the Journal of Asian and Business Economics, University of Economics, Ho Chi Minh City, Vietnam and Mr. Yan Yong of Huzhou University of China presenting the Huzhou University Research Award to Dr. Jenny Beb F. Ebo of Cavite State University during the Best Paper Award ceremony

Magpantay, Herrera participate in PCAARRD-SERDAC seminar

Mr. Junser P. Magpantay, instructor from the Department of Forestry and Environmental Science (DFES) of the College of Agriculture, Food, Environment and Natural Resources (CAFENR), and Mr. Jhon Laurence B. Herrera, administrative assistant of Sugar Palm Research, Information and Trade (SPRINT) Center participated in a seminar series titled “Socio-Economic Researches in Agriculture, Aquatic and Natural Resources (AANR)” at Central Luzon State University (CLSU), Muñoz, Nueva Ecija on September 18, 2019. The seminar was organized by the Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (PCAARRD) in collaboration with the Socio-Economic Research Data Analytics

Center (SERDAC). It was attended by participants from the academe, government agencies, local government units (LGUs), National Agriculture, Aquatic, Natural Resources and Development Network (NAANRDN), and private sectors. The seminar aimed to disseminate and discuss the policies and relevant issues besetting the AANR sectors such as those addressed by the two recently conducted studies, “Role of Cooperatives in Technology Adaptation for Improved Production and Market Efficiency in Dairy Buffalo and Coffee” and “Creating an Enabling Environment for a Vibrant Philippine Bamboo Industry: Addressing Policy Constraints and Information Needs”. (JLBHerrera).



The participants of the PCAARRD-SERDAC seminar series

CvSU bags awards at RICE

Cavite State University (CvSU) won two awards, LIKHA (Creative Research Category) and SIBOL (Student Creative Research Category) during the Regional Invention Contest and Exhibit (RICE) 2019 held at Sta. Rosa Multi-Purpose Complex, Sta. Rosa, Laguna last September 27. Out of 75 entries, five finalists came from CvSU.

Engr. Sheryl D. Fenol, faculty researcher and Manager of the Knowledge and Technology Transfer Office (KTTO), emerged 1st runner-up for her paper titled, *“Supercapacitors Electrode from Coffee Grounds Activated Carbon”* for LIKHA - Creative Research Category while Sarah Amit, Kiro Dabuet, Carla Beatrice Reyes, and Mr. Janiko Marco R. Luneta (adviser) emerged 2nd runner-up for their paper, *Acceptability of Starch-based Edible Films as an Alternative Longganisa Casing* for SIBOL - Student Creative Research Category, High School level.

Another finalist for LIKHA - Creative Research Category was the paper titled, *“Probiotic Coffee: Viability of Bifidobacterium lactis and Lactobacillus acidophilus in Coffee Drink”* by Dr. Eufemio G. Barcelon and Mr. Janiko Marco R.



Engr. Sheryl Fenol and CvSU HS students receiving their awards

Luneta, while the other two finalists for SIBOL-Student Creative Research Category (college level) include the papers, *“PID-Based Green Coffee Quality Sorter”* of Abel James Lualhati and Jhamil Mariano as inventors and Engr. Sheryl D. Fenol and Engr. Al Eugene L. Torres as advisers; and *“Survival of Lactic Acid Bacteria (L. acidophilus and L. bulgaricus) from Probiotic Chewy Candy Made from Spent Coffee Grounds in Human Gastro-intestinal Stresses”* by Remilyn Vendiola as the inventor and Mr. Janiko Marco R. Luneta as the adviser.

RICE is an annual competition being conducted by the Department of Science and Technology (DOST) which aims to recognize the indispensability of local inventors and innovators as contributors for national economic development by providing them encouragement through forms of cash rewards, certificates, plaques, and bragging rights. This year, it was held alongside the Regional Science and Technology Week (RSTW) held last September 25-27 with its theme, *“Science for the People: Enabling Technologies for a Sustainable Development”*. (SDFenol)



The finalists from CvSU during the evaluation

ANNOUNCEMENTS



2nd National COFFEE EDUCATION CONGRESS

“THEME:

Unifying Industry Initiatives Toward Sustainability of Philippine Coffee

December 3-5, 2019

CvSU International Convention Center
Cavite State University
Indang, Cavite, Philippines

Hosted by:



CAVITE STATE UNIVERSITY
Indang, Cavite

through the



NATIONAL COFFEE RESEARCH,
DEVELOPMENT AND EXTENSION CENTER



RESEARCH CENTER

CALL FOR PROPOSALS

What : Research proposals for funding under the **FSRCEP Funding Schemes**
P 25,000 per study
20 slots available

Who : Faculty Members and thesis advisers with relevant research projects properly reviewed and duly endorsed by their College/Campus Research Units

Deadline of Submission

including attachments is November 7, 2019

Please check the CvSU website for the approved format of research proposals (<https://cvsu.edu.ph/downloadable-forms>)

For inquiries, contact the Research Center
Telephone No. (046) 862 1654

CAS conducts outreach activity with Cherry Mobile

The College of Arts and Sciences (CAS) conducted a joint outreach venture with the Kosmos Technomobile Inc. (Cherry Mobile), through Maynard S. Ngu (MSN) Foundation, to alleviate the academic needs of students in Mendez Central School and Asis Elementary School. Through the collaborative effort of the college and the foundation, 250 indigent pupils from Asis Elementary School and 224 from Mendez Central School were given bags, notebooks and pens. This outreach activity was held on September 10, 2019, with two programs conducted at Asis Elementary School in the morning, and at Mendez Central School in the afternoon.

The outreach activity was facilitated by faculty members of the College of Arts and Sciences, headed by its dean, Dr. Bettina Joyce P. Ilagan, together with the extension coordinators, Ms. Mary Joyce E. Talamante, Mr. Andrew J. Siducon, and Ms. Merlie C. Nahilat. Faculty members from the four departments of the college: Department of Biological Sciences, Department of Languages and Mass Communication, Department of Physical Sciences, and Department of Social



Students of Asis Elementary School and Mendez Central School received school supplies during the event

Sciences and Humanities, assisted in the smooth flow of the event. As linkage counterpart, the event became a success through the donations of MSN Foundation, headed by Regine Peñaflor-Anacay (Operations Manager) and Rednaxela Calderon (Program Officer). The faculty members and foundation representatives were welcomed by the two schools, supervised by their principals, Ms. Dalisay A. Cubillo of Asis Elementary School, and Dr. Connie P. Dela Cruz of Mendez Central School.

The event was graced by the presence of the municipal mayor of Mendez, Atty. Fredderick A. Vida, since the College has a standing extension memorandum of agreement with the municipality until December 2021.

The programs during the outreach activity were facilitated by faculty members of the school beneficiaries. As part of the program, students showcased their talents through dancing, singing and playing musical instruments as gesture of appreciation to the college and the foundation. The event was concluded with everyone bearing smiles in their faces and joy in their hearts. (AGBDesingaña)



CAS faculty and Cherry Mobile representative distributing school supplies

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TECHNOLOGY

Innovative Fructan Production Technology

Cavite State University

The Problem

Fructans are functional food ingredients, a low-glycemic index natural sweetener, and has bifidogenic properties that can prevent colon cancer. Many processes are being used to produce such product, but most of them require tedious steps on production, and/or, cost-effectiveness.

Our Solution

Utilization of locally isolated black mold proves an innovative way of producing fructan-rich syrup with simple yet cost-effective set of procedures. Using the technology, the total fructan yield amounts to 73.66 g/L, with 59.11 g of 1-kestose and 14.55 g/L of Nystose.

The Inventor

Dr. Hosea Matel
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- Fructan is both a dietary fiber and a prebiotic compound
- It promotes the growth of beneficial bacteria in the colon
- It has one-third of the calories of sugar
- It has low glycemic index and suitable for diabetes

- Fructans boost minerals absorption
- It improves the blood lipid composition
- It reduces high levels of triglycerides
- It can control cancer insurgence

FructansFructan-rich syrup can be used directly as sweetener, or as ingredient to pastry products, imparting textural improvement, color, and health benefits on top of it.

For more Information, please contact : Innovations and Technology Support Office International House 1, Cavite State University Don Severino de Las Alas Campus Indang, Cavite (046) 443 9104 • its@cvsu.edu.ph