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RESEARCH AND INNOVATION STORIES AND EVENTS

RISE



The Official Newsletter of the BASC Research, Extension, Production and Development Office



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ARaMP Inc. organizes the *2nd National Rabbit Congress* in collaboration with **BASC**

For the second time, the Association of Rabbit Meat Producers Incorporated (ARaMP Inc.) successfully organized the two (2) day National Rabbit Congress in collaboration with Bulacan Agricultural State College with the theme, “Rabbit Industry for Food Sufficiency and Better Nutrition,” on February 23-24, 2023 at the Farmers’ Training Center.

Artemio C. Veneracion Jr., President of ARaMP Inc., highlighted in his message the history of the organization, and the plan for the first international rabbit congress.

Juan Jose Pascual, President of the World Rabbit Science Association (WRSA), gave his message of support for the conference, and shared how rabbit farming suffered in providing high-quality protein in the human diet in this pandemic-stricken economy.

.. PAGE / 4



Atty. Luis Meinrado C. Pangulayan,
Undersecretary
Department of Agrarian Reform (DAR)

Four (4) executives of the Department of Agriculture have shown their support for the conference through video messages, namely: Dr. Domingo F. Panganiban, DA - Senior Undersecretary; Dr. Glenn Panganiban, DA - National Program Director for Urban Agriculture; Dr. Karen Roscom, DA - Bureau of Agriculture and Fisheries Standard Director; and Dr. Paul Limson, DA - Bureau of Animal Industry Director.

Atty. Luis Meinrado C. Pangulayan, Undersecretary of the Department of Agrarian Reform (DAR), served as the keynote speaker for the conference. Atty. Pangulayan emphasized the agrarian reform law which can make the land owners economically empowered by educating them on how to make their land profitable.

On the first day of the conference, a total of seven (7) scientific papers from academe were presented which were: "Growth Performance and Carcass Quality in Rabbits Supplemented with Marine

Algae," by Monaliz M. Nagrampa of Benguet State University; "Studies on Rabbit Production in Partido, Camarines Sur," by Paladin, Lorio, and Lopez of Partido State University; and "Sensory Analysis of the Processed Rabbit Meat Products in Magsaysay, Occidental Mindoro;" and "Ginger, Garlic, and Onion Production Using Fresh Rabbit Manure in Magsaysay, Occidental Mindoro," both by Mary Yole Apple Declaro-Ruedas of Occidental Mindoro State College. The Abra State Institute of Science and Technology researchers, Jumel B. Pati and Talugay G. Patagao, also presented their papers titled "Production and Management Practices of Rabbit Raisers in Abra Province," and "Acceptability of Rabbit Meat and Meat By-Products in Abra Province," respectively. Moreover, the Vice President for Research, Extension, Production and Development of BASC, Dr. Honeylet J. Nicolas presented her paper titled, "Acceptability of Rabbit Pelt Products with Different Formulations and Techniques" as final presenter

of the first day.

The presentation of scientific papers was resumed the following day with Christy M. Bueno of the University of the Philippines Los Baños and Clarizza L. De Leon of Nueva Ecija University of Science and Technology presenting their studies about "Rabbit Production and Marketing Systems in Selected Regions of Luzon;" and "The Rabbit Farming Industry for Meat Production Basis for Customer-Centric Marketing Plan," respectively.

The presentations were followed by discussions related to rabbit from various government agencies. The topics discussed were: "Philippine National Standard, Rabbit - Code of Practice - Slaughtering," by Aljon S. Reyes of the Bureau of Agriculture and Fisheries Standards (BAFS); "Rules and Regulations on Humane and Hygienic Slaughter, and Meat Inspection of Rabbit for Food," by Armie Mariel M. Sabello of National Meat Inspection Service (NMIS); "Rules and Regulations

on the Welfare of Rabbits used for Meat Production,” by Ma. Sheila G. Ordinario of BAI - Animal Health and Welfare Division; and “Guidelines on the Importation of Rabbits in the Philippines” by Maria Glofesita O. Lagayan of BAI - National Veterinary Quarantine.

In addition, Stakeholders were also given platform to share their projects and advocacies related to rabbit industry. The project led by Elton Salenga of Bataan Association of Rabbit Meat Producers and Processors titled “Sustainable Rabbit Production in Bataan Through Organizational and Capacity Development Mechanisms” and the advocacy of an ARaMP member, Faith Garcia about “Pushing for a General Public Acceptance of Rabbit as Meat Alternative in the Philippines,” were shared to the attendees. Other ARaMP members gave presentations as well, including Alvin R. Samson, who provided an overview of the growing rabbit industry in Rizal Province and Rev. Fr. Eduardo C. Vasquez, who discussed his "Project G.R.A.C.E. : Garden Ready Always for Consumption of Everyone."

The conference was closed by the ARaMP Vice President, Vicente Galvez, who thanked all the congress participants and guests for attending as well as the exhibitors from Fugo Agri Trading, Rabbit Improvement Company (RIC), Pilmico, and BASC 4K Project who displayed different rabbit agriproducts and processed meat.





BASC faculty researchers
participate in
ICSAVED 2023



Eight faculty members attended the 2023 International Conference on Sustainable Agri-vironment Education, Entrepreneurship and Community Development, which was organized by Philippine Association of Agri-vironment Educators and Entrepreneurs, Inc. (PASSAGE). Sponsored and co-hosted by LEADS Agri and Mariano Marcos State University (MMSU), the conference was held in MMSU, Batac, Ilocos Norte, Philippines. The said conference was attended by faculty members from different state universities and colleges from the Philippines and abroad. There were also participants from both public and private institutions. The conference activities were composed of parallel and plenary sessions.

The four-day conference included conference tour of Ilocos Province, presentation of papers with tracks on data science, technology and innovations in agri-vironment education and entrepreneurship; agriculture, fishery and environmental conservation protection and management; the futures of agricultural education in the era of industrial revolution; and challenges and opportunities on scientific and technological entrepreneurship and governance.

It was intended to provide insightful information and to address a wide range of fascinating and difficult topics through research findings in agriculture education, environment, entrepreneurship, and community development

for the exchange of ideas, innovations, and best practices with the carefully curated panels and peer-reviewed academic papers. The conference theme was “Sustainable Borderless Agri-Vironment Education, Enterprise, and Community Development through Industrial Revolution 4.0”. It involved plenary sessions with the four resource speakers: Dr. Siti Aekbal Salleh, head of Sustainable Technology Institute for Biodiversity and Sustainable Development of the Universiti Teknologi MARA (UiTM) in Malaysia; Dr. Rostam Yaman, registered surveyor and associate professor of the UiTM College of Built Environment; Dr. Glenn Gregorio, director of Southeast Asian Regional Center for Graduate Study and Research in Agriculture; and Dr. Nuttavikhom Phanthuwongpakdee, coordinator of the Educational Partnerships for Innovation in Communities Network Asia. The conference was conducted in partnership with the Department of Science and Technology - Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (DOST-PCAARRD), and Leads Agricultural Products Corporation.

BASC delegates presented their papers under an organized panel with the sub-theme, “Agriculture from the Farmers’ Perspective”, wherein Dr. Imee D. Esguerra, BASC Extension Services Office Director served as the convener and Mr. Rael C. Tejada, BASC Research Office Director served as the moderator for the session. The

six papers from BASC presented in the session were: “*Level of Satisfaction of Farmers on Rice Competitiveness Enhancement Fund (RCEF) Components on Seeds and Financial Assistance*” presented by Dean Nerilyn J. Victoria; “*Awareness, Participation and Satisfaction of Rice Farmers in Crop Insurance Programs*” by Leah V. Indon; “*Perceived Usefulness, Problems Encountered and Satisfaction of Farmers on the Mechanical Transplanter*” by Dinah Marie C. Dayag; “*Participation and Satisfaction of Rural Improvement Club (RIC) Members*” by Aisanne Marie S. McNatt; “*Record Keeping Practices and Income of Rice Farmers*” by Annie Rose P. Pagdanganan; and “*Strategic Management Process and Profitability of Selected Cooperatives*” by Sigrid Ann V. Jao.





BASC approves RDE proposals for **Future's Thinking**

A meeting for the research and extension proposals for Future's Thinking funding was held on February 7, 2023, at the Farmers' Training Center Conference Room from 9:00 AM to 1:30 PM.

The Technical Working Group Members who attended the said meeting were: Dr. Jameson H. Tan, College President; Dr. Honeylet J. Nicolas, Vice President for Research, Extension, Production and Development; Dr. Cecilia S. Santiago, Vice President for Academic Affairs; Dr. Imee D. Esguerra, Extension Director; Engr. Joselito D. Tacit, Intellectual Property Director; and Mrs. Edna Mae D. Cruz, GAD Director.

Future's Thinking Committee Members present were

Dr. Billy Joe V. Villena, and Ms. Cynthia M. Sanchez. Also present were the lead proponents: Engr. Franz Z. Miranda, Ms. Ma. Fe Theriz G. Mallari, Ms. Love Salve H. Belonio, Ms. Michelle M. Cortez, Engr. Myrtel S. Bernardo, and Engr. Rodwin Derrick C. Catiis.

After the evaluation of seven (7) research and extension proposals submitted for Future's Thinking funding, four (4) RDE proposals (three (3) research proposals with one-year duration and one (1) extension proposal with three-year duration) have been approved with further revisions prior to implementation. The approved RDE proposals were: "*Bulacan Farmers Adoption to Digital Technology, Project SIBOL:*

Systematic Innovation Building for Online Livelihood," by Ms. Michelle M. Cortez and team with approved budget worth Php 247,924.00; "*Development and Evaluation of BASC Nutri Food Products,*" by Engr. Franz Z. Miranda and team with approved budget worth Php 183,480.00; "*Implementation and Validation of Solar Energy-Based Artificial Intelligence Algorithm for Smart Irrigation System for High-valued Crops Cherry Tomatoes and Broccoli using Internet of Things (IoT) (A BASC Automated System for Improved Agricultural Irrigation Phase 2),*" by Engr. Myrtle S. Bernardo and team with approved budget worth Php 203,050.00; and lastly, "*PAGSIBOL: Development of Smart Demo*



Clonal Facility (BASC's Effort Towards the National Greening Program," by Engr. Rodwin Derick C. Catiis and team with approved budget worth Php 365,546.00.

The Future's Thinking Office allocated Php 1,000,000.00, or 50% of their budget of Php 2,000,000.00 for the year 2023, for applying future's thinking to RDE projects. The evaluation and meeting also covered the agenda regarding the Future's Thinking target setting for the following thirty years.

Project Title	Proponents	Duration	Budget
Bulacan Farmers Adoption to Digital Technology, Project SIBOL: Systematic Innovation Building for Online Livelihood	<ol style="list-style-type: none"> Michelle M. Cortez Engr. Cresan Joy Villaroman Russel Amira H. Balacania Marian V. Caralde Dr. Ma. Melanie A. Cruz Dinah Marie C. Dayag 	February 2023 – January 2024 (1 year)	P 247,924.00
Development and Evaluation of BASC Nutri Food Products	<ol style="list-style-type: none"> Franz Z. Miranda Ma Fe Theriz G. Mallari Love Salve H. Belonio Marielle D. Gamboa Crisabel C. Fajardo 	February 2023 – January 2024 (1 year)	P 183,480.00
Implementation and Validation of Solar Energy-Based Artificial Intelligence Algorithm for Smart Irrigation System for High-valued Crops Cherry Tomatoes and Broccoli using Internet of Things (IOT) (A BASC Automated System for Improved Agricultural Irrigation - Phase 2)	<ol style="list-style-type: none"> Engr. Myrtel S. Bernardo Engr. Jermyn G. Evangelista Engr. Shiela Marie Gatchalian Rael C. Tejada 	March 2023 – February 2024 (1 year)	P 203,050.00
PAGSIBOL- Development of Smart Demo Clonal Facility (BASC's effort towards the National Greening Program)	<ol style="list-style-type: none"> Engr. Rodwin Derick C. Catiis Engr. Joselito D. Tucit Engr. Isabel Samantha C. Belonio Engr. Shiela Marie F. Gatchalian Engr. Daniel Alexis Belonio 	July 2023 – January 2026 (3 years)	P 365,546.00
TOTAL			P 1,000,000.00



Jao presents paper in **SEAMREEC 2023**

Sigrid Ann V. Jao presented her research paper titled, “Flexible Learning Modalities by BASC Faculty: Challenges and Opportunities” at the recently concluded Southeast Asian Multidisciplinary Research Expo and Extension Conference (SEAMREEC) under Education Category on March 1 to 4, 2023 at Sorsogon Convention Center at Sorsogon City.

The four (4)-day conference was organized by Sorsogon State University with a theme, “Translate. Transfer. Transform. Research and Extension Practices in 4.0.” The conference aimed to promote knowledge sharing and to create partnerships among scholars and faculty in higher education institutions in the country.

The conference consisted of seven (7) categories, namely: Track 1: Green Technology and

Science and Technology Innovation; Track 2: Business and Management; Track 3: Education; Track 4: Humanities and Social Sciences; Track 5: Agri-Fisheries and Natural Resources; Track 6: Digital Technology and ICT; and lastly, Track 7: Extension Projects.

The event started with the launching ceremony of SEAMREEC 2023, Officials and Representatives present at the ribbon cutting were: Dr. Geraldine F. De Jesus, President of Sorsogon State University; Hon. Francis Joseph G. Escudero, Committee Chair, Higher, Technical, and Vocational Education; Dr. Aldrin Arenas Darilag, Commissioner, Commission on Higher Education; Atty. Septon A. Dela Cruz, CHED Regional Director; Hon. Marie Bernadette Escudero-Quirante, Representative, 1st District-

Sorsogon Province; Hon. Manuel L. Fortes Jr., Representative, 2nd District-Sorsogon Province; Hon. Jose Edwin B. Hamor, Governor of Sorsogon Province; and lastly, Hon. Ma. Ester E. Hamor, Mayor of Sorsogon City; Followed by concurrent plenary lectures from featured plenary speakers, paper presentations, poster presentation, and fellowship night.

Day two (2) of the conference consisted of concurrent plenary lectures, paper presentations, poster presentations, exhibit viewing, a cultural show, and a representative’s night. Along with plenary lectures and concurrent paper presentations, the best conference paper (per track), best oral presenter (per track), and best poster (per track) awards were given out the next day. To end the four-day event, after registration, the participants had a provincial tour.

Intellectual Property Office

New year, fresh hires, fresh applications for the first quarter



The BASC Intellectual Property Office (IPO) warmly welcomed its new organization members as the first quarter of 2023 drew to a close. The new IP Training Officer is Ms. Michelle Cortez, and the new supporting staff is Ms. Ariane G. Manuzon.

For this year, the IPO also submitted new applications for intellectual property registration.

The office has filed for two (2) copyright registrations at the National Library of the Philippines submitted by the Institute of Engineering and Applied Technology (IEAT). Brief descriptions for these IPs are as follows:

The Internet of Things (IoT)-Based Smart Lighting Artificial Intelligence Driven Platform for High Valued Crops on Hydroponics System was a computer program created by Engr. Myrtel S. Bernardo. This is a solar-sharing smart lighting system Artificial Intelligence (AI) that automatically adjust the LED lighting appropriate for indoor vertical farming specifically on high-value crops tested on lettuce (*Lactuca sativa*) with the use of IoT.

The “Artificial Intelligence Algorithm for Smart Irrigation System using Internet of Things” was also a computer program created by Engr. Myrtel S. Bernardo, Engr. Shiela Marie F. Gatchalian, Ms Jermyn G. Evangelista and Mr. Rael C. Tejada. This system waters the plant automatically and sends signals based on smart irrigation system information such as the tank’s water level, and the soil moisture content which enables the farmers to monitor and manage their irrigation system using the IoT.

For the trademark application, the Intellectual Property Office of the Philippines released the trademark certificate for BUBBA Milk application on March 06, 2023. However, the BASC-IPO withheld the application for trademarks related to BASC, its offices, projects or products pending the conversion of Bulacan Agricultural State College to Bulacan State Agricultural University.

Hands down, Thumbs up for Urban Garden Set-Up

Agricultural Resources Management Research Division (ARMRD) personnel of Department of Science and Technology-Philippine Council for Agriculture, Aquatic and National Resources Research and Development (DOST-PCAARRD), conducted a monitoring and evaluation of the extension project titled, "Strengthening Communities Affected by CoViD-19 Pandemic thru Urban Gardening in Bulacan" on March 7-8, 2023. Part of this activity were the site visitation and evaluation of established urban/community gardens in Sta. Maria, Pandi, Baliuag, and San Ildefonso, Bulacan. The team of evaluators was composed of Dr. Rodel G. Maghiray, Ms. Adoracion B. Armada and Ms. Cynthia P. Remoquillo.

The urban/community gardens were presented to the evaluators to analyze the impact of the project to the community partners with the supervision of Mr. Rael C. Tejada, Mrs. Leovenza P. Villacorte, Mr. Ryan Ceniza and Ms. Cashmere Lauriz C. Trivinio, and Dr. Julita P. Mendoza.

In addition, Ms. Mary Jean Yancha, Sec. Roberto Mencero, Councilor Jeffrey Ortega, and Mr. Charlie Balmeo, project cooperators of Sta. Maria, Baliuag, Pandi, and San Ildefonso, Bulacan, also presented their respective urban/community gardens to the evaluators.

Furthermore, two households in Sta. Maria, Bulacan who adapted urban gardening were also visited by the evaluators.

Mr. Rael C. Tejada, project leader presented the activities carried out throughout the project's duration. The UGAT project established six urban/community gardens, conducted training series on technology and management

practices towards a pandemic resilient community, hands-on training on bio fertilizer production and application, and training on hydroponics and aquaponics with 214 participants which are teachers, students and LGBTQ+ members.

Evaluators acknowledged Mr. Tejada and his team for the success of the project for it truly promoted sustainable source of food and income to the beneficiaries.

Dr. Maghiray said that in his long years of project evaluation from all parts of the archipelago, the most common problems encountered is the community impact and sustainability which were evidently observed in the project.

Dr. Amada commended BASC in influencing LGUs to passionately integrate urban gardening in their community programs and policies.

In conclusion, the project helped the chosen beneficiaries to improve their quality of life during the pandemic through provisions of S&T based urban gardening technology via technical assistance and hands-on training in the improvement of their respective urban gardens, and through the conduct of seminars and distribution of developed IEC materials for information disseminations.

The project management team was led by Mr. Rael C. Tejada with Mrs. Sheryll C. De Leon, Mrs. Maria Adela C. Cruz, Mrs. Leovenza P. Villacorte, Mr. Ryan Ceniza and Mr. Mark Angelo G. Inducil as project staffs and Ms. Cashmere Lauriz C. Trivinio as Research Assistant.



FMC Learning Center as BASC's new institutional partner

The Bulacan Agricultural State College (BASC) conducted a field visitation to one of its partners' learning site, the FMC Agro Philippines Inc. Learning Center located at Calauan, Laguna on March 30, 2023.

Sixteen delegates from BASC who attended this benchmarking field visitation and lecture led by the FMC Learning Center Team were the University President, Dr. Jameson H. Tan, International Relations Director, Dr. Meriam F. Sulit, College of Agriculture Dean, Dr. Julita P. Mendoza, Research Director, Mr. Rael C. Tejada, together with College of Agriculture Faculty members, MSA program Students, IRO Staff, and RO Staff .

The FMC technicians demonstrated their operations in R&D thru tour of their field trial sites of different crops that are currently being tested with herbicides. The different field trial sites for pre-development and later stages of development of their products are also differentiated with pre-dev using concrete blocks and later stage dev on field with buffer borders to control leaching. Questions asked during the tour were also addressed by their experts ensuring that their

methodologies are highly technical and systematically accurate.

In the lecture sessions, the FMC team discussed the company operations of different departments from R&D department, Techno Commercial Department, to Customer Relations Management. The process and time cycle of product development were elaborately discussed along with information regarding documentary and technical/professional requirements to be granted permit to conduct them. For possible R&D collaboration with BASC, the institution is first required to have FPA trained and accredited researchers and response care officers to become a research site for product developments.

The research office was given an idea to encourage their researchers from the field of crop protection to obtain such eligibility for capacity enhancement.

And lastly, the HR-Business Partners, Philippines, Malaysia & Myanmar, Ms. Alma Lugawe, presented their campus engagement programs where BASC, as an institution, can become a partner collaborator on their internship programs for on-the-job trainings (OJT), career orientation, career fair, and agriculture student scholarship program. The FMC technicians are also open to invitations for seminar lectures about crop protection related topics as promoters to raise awareness about the necessity and positive impacts of chemical inputs on the yield of crops.

At the end of the program, President applauded the efforts of FMC and warmly welcomed them as an institutional partner of BASC, soon to be BSAU, for more years to come. A plaque of appreciation was awarded to them for the fortuitous and productive site visitation and benchmarking.



4K Program holds training on Basic Rabbit Production

The Karne ng Kuneho para sa Kalusugan at Kabuhayan (4K Program) conducted a training program on basic rabbit production, for members of San Mateo Rabbit Meat Association (SMRMA) and Rural Improvement Club (RIC) Makapilapil. Dr. Honeylet J. Nicolas, Vice President for Research, Extension, Production and Development (VPREPD) and Project Leader of the 4K Program, served as the resource speaker. Dr. Nicolas discussed the basics of rabbit production in terms of the living environment, eating habits, and breeding stock. The training was under one of the extension program components, the Farmer Livestock School on Rabbit Enterprise Management (FLS-REM Project) of the 4K Program. It was held on March 22, 2023, at the Farmers' Training Center, BASC.

Before the lecture proper, BASC inked a memorandum of agreement with SMRMA and RIC Makapilapil. The inking of the MOA was headed by Dr. Nicolas, VPREPD and Dr. Imee D. Esguerra, Director for Extension Services Office.

The training program concluded with the dispersal of rabbits to the SMRMA and RIC Makapilapil to support the rabbit farming of the organizations.



PHOTO TAKEN BY JOHN PATRICK GUTIERREZ

Harvest Festival



To showcase the bountiful harvest of farmer beneficiaries, a harvest festival was conducted at the established model farm in Brgy. Catacte, Bustos, Bulacan under the Department of Agriculture-Regional Field Office III (DA-RFO III)-funded BASC extension project titled "Upscaling of Rice-Based Integrated Farming System in Bulacan" on January 20, 2023. Mr. Panfilo M. Dela Cruz, farmer cooperater proudly presented to the participants the fruits of his labor through the adoption of the rice-based integrated farming technology extended to them by BASC.

Dr. Irene M. Adion, Chief of Research Division of DA-RFO III together with Mrs. Wesceselma Lingat graced the activity and expressed their continuous support to the project beneficiaries.

Hon. Soliman Santos, LGU-Bustos Municipal Councilor; Ma. Lourdes M. Roberto, Municipal Agricultural Officer of Bustos and Agricultural Extension Workers; with Hon. Adrinao Guinto, Brgy. Captain of Catacte showed the strong support of the LGU to the project



Extension Services Office spearheads 7 trainings/seminars in 1Q 2023

A total of 7 trainings/seminars initiated by the different institutes and units of the college were conducted and supervised by the Extension Services Office this 1st quarter of 2023.

The College of Agriculture continued extending their expertise through their training-seminar on free-range chicken production held in Sta. Catalina Matanda, San Ildefonso, Bulacan on January 18, 2023. In addition, training series on rice-based farming system integrated with poultry production and management and training on hydroponics and aquaponics were conducted at Farmers' Training Center, BASC Main Campus on January 25 and

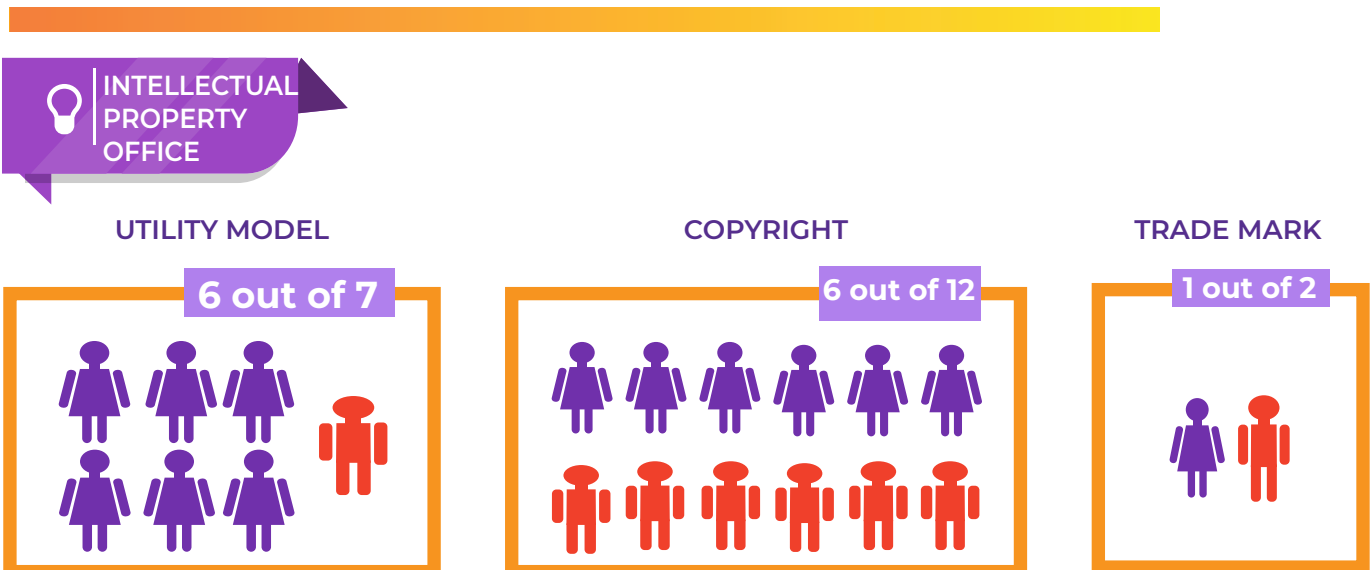
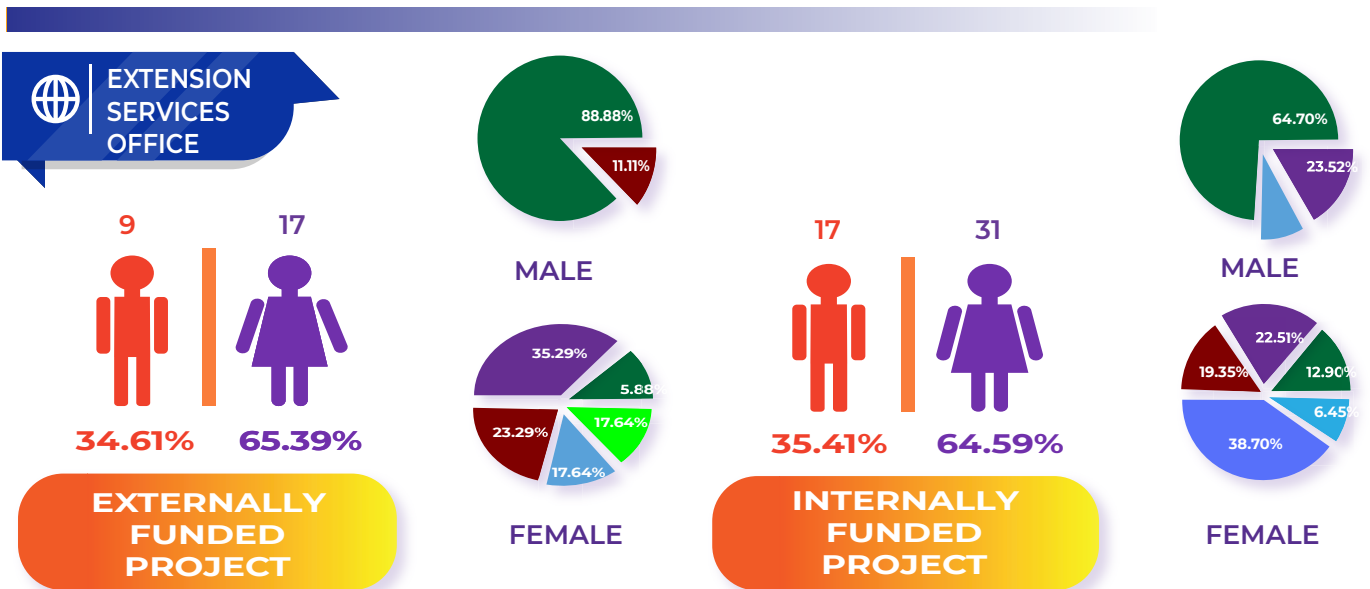
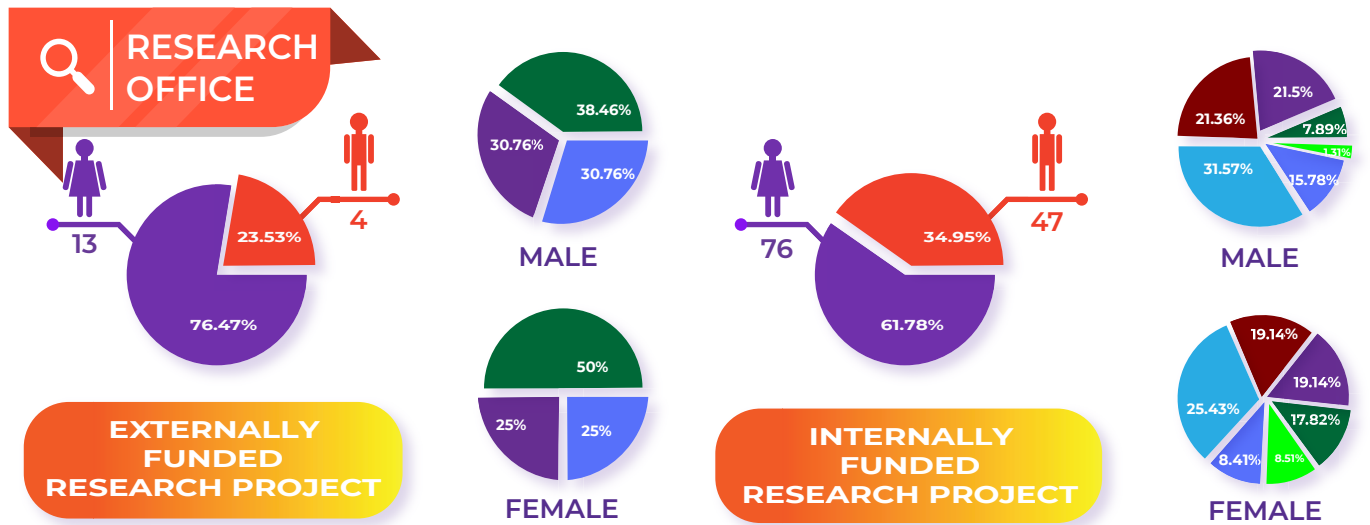
February 27, 2023.

Institute of Management introduced the rabbit industry, discussed the different food safety and sanitation processes as well as the food costing, marketing and advertising of rabbit products through their training on product integration strategy for backyard rabbit raisers held in Makapilapil, San Ildefonso, Bulacan on February 9, 2023.

Institute of Education conducted a webinar series titled I HEAR U (Intensive Honing of Educators in Action Research Undertakings). The webinar series started on March 3, 2023 and continuously being conducted every Friday via google meet.

BULACAN AGRICULTURAL STATE COLLEGE

Research, Extension, Production and Development
Involvement in REPD Activities by Sex



- College of Agriculture
- Institute of Management
- Institute of Engineering and Applied Technology
- Institute of Education
- Institute of Arts and Sciences
- Doña Remedios Trinidad Campus

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The screenshot shows the SAJAAS website interface. At the top right, there are links for "Register" and "Login". The main header features the SAJAAS logo and the text "Southeast Asian Journal of Agriculture and Allied Sciences" with a row of six social media icons. Below the header is a navigation menu with "ABOUT", "CURRENT", "ARCHIVES", "SEARCH", and "CONTACT". The main content area displays "Vol. 1 (2021)" and "Published June 30, 2022". A central text box provides a description of the journal, and to the right is a thumbnail image of the journal cover.



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