



CPU Research NEWSLETTER

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Engr. Dany C. Molina, Dr. Aries Roda D. Romallosa, and Engr. Bernie C. Cangrejo together with Hide-Fumi Yokoo (Hitotsubashi University), Engr. Molina, Dr. Romallosa, Engr. Cangrejo and Dr. Masahide Horita (The University of Tokyo)

An observation on the actual operation of Potato harvester equipment by Fujishita Company Ltd. was conducted at the Fukouka University of Japan from May 10 to 17, 2019 with a team from Central Philippine University led by Engr. Dany C. Molina, Dean College of Engineering, with Dr. Aries Roda D. Romallosa, Chair, Department of Agricultural Engineering, and Engr. Bernie C. Cangrejo, Chair, Dept. of Packaging Engineering.

Dr. Romallosa observed that the "Bullgirl" potato harvesting equipment could still be improved. "As a research topic, it was proposed that CPU and Fujishita Company Ltd. collaborate for an enhancement, which could provide a challenge for a technology transfer to CPU," she explained.

The team also observed the potential for Fukouka University to link up with CPU College of Agriculture and other departments and to



strengthen an existing partnership in Tokyo, Japan.

Dean Molina, the President of the Philippine Association of Engineering Schools, linked with the University of Tokyo during this visit to Japan. In addition, the group observed the improvement of Japan's agriculture business. *

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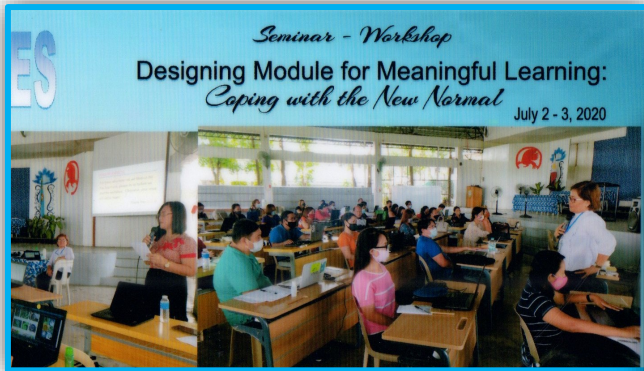
CPU Directors' ...
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CPU Shares Expertise to ISCOF: Two University Directors Serve as Resource Persons in the Seminar-Workshop

In line with one of its major functions as a university, that is extension, and to strengthen linkages with other institutions of learning both in public and private, specifically State Universities and Colleges (SUCs) and other Private Higher Education Institutions (PHEIs), Central Philippine University shares expertise to Iloilo State College of Fisheries (ISCOF) by sending two university directors to serve as resource persons during a Seminar-Workshop on Designing Modules for Meaningful Learning: Coping with the New Normal. The activity was held on July 2-3, 2020 at the ISCOF Barotac Nuevo Campus, Barotac Nuevo, Iloilo.

Science and Educational Administration specialist from recognized mentors at Hong Kong Baptist University (HKBU), Kowloon Tong, Hong Kong, SAR; and at Valparaiso University (VU), in Indiana, USA, as a United Board for Christian Higher Education in Asia (UBCHEA) fellow. At present, he is the Director of CPU Center for Teaching and Learning Excellence (CPU-CTLE), and a faculty of the CPU School of Graduate Studies.

Other than the opportunity to share their expertise to the participants and to learn from them as well, Dr. Penetrante and Dr. Sabijon have been thankful for the warm welcome extended to them by the ISCOF academic community led by their President Dr. Godelyn G. Hisole (SUC President II), a



The speakers from CPU were: Dr. Mary O' T. Penetrante, Director of the University Research Center (URC), who facilitated the topics and activities on Digital Instructional Strategies for Flexible Learning and eLearning Tools for Specific Types of Knowledge. Dr. Penetrante finished her Doctor of Management at CPU. At present, she is a professor of the CPU School of Graduate Studies. In addition, other than being a director and professor in the Philippines, she has served as a College Professor in Business Computer Application, Database Management, and Project Management at the Center for Business, George Brown College, in Toronto, Canada.

Another speaker, Dr. Ananias C. Sabijon, Jr. Ph.D. in Education, major in Curriculum Development) facilitated the topics and activities on Revising the Education Landscape, Instructional Design and Module Development; Instructional Materials and Designing Modules for Learning; and Assessing and Enhancing the Instructional Module.

Dr. Sabijon finished his Ph.D. in Education at West Visayas State University, and has received training as a

Centralian. Dr. Hisole finished her Doctor of Management degree at CPU School of Graduate Studies.

A total of 50 seminar-workshop participants were purposely chosen by the organizers from the five campuses of ISCOF, namely: the Main Campus, the Barotac Buevo, the Dingle, the Dumangas and the San Enrique Campus. The selected participants will become trainers in their respective home campuses.

The seminar-workshop was part of the Iloilo State College of Fisheries-Collaborative Action in Response to Educational Setback (ISCOF-CARES), especially during this time of pandemic and as different types of learning institutions (including ISCOF) face the new normal. It was coordinated by the ISCOF-CARES Project Leader Dr. Emelyn B. Ligasan. *

Moringa's Health Essentials



Some people have been pushed to the brink of poverty and food deprivation, particularly of nutritious food, as a result of the quarantine period.

Fortunately, "*pantawid gutom*" - food packs – are distributed to families and communities by the government, civic organizations, and individuals. The unique feature is that some organizations and local governments (LGUs) are delivering food aid to people with a conscious concern for their constituents' health. Instead of noodles and canned products, some people are fortunate enough to receive vegetables from local farmer groups. What was formerly regarded to be impossible has now become a viable and practical concept. The 9th Regional Agrifair, which took place in November 2019 at Central Philippine University, focused on Backyard Gardening as a sustainable option.

Now and in the future, it is critical to get involved. People are encouraged to undertake backyard gardening in this case, although on a small scale.

Some city dwellers have even grown vegetables in their homes using pots, empty cans, and soil.

It's not just a good idea to cultivate vegetables without a farm; it's also a good idea to rediscover the vital crops and herbs that can replace expensive and sometimes unavailable prescription medicines from the pharmacy.

Dr. Manny Palada (Outstanding International Horticulturist), Member of the CPU Board of Trustees, is a good example of someone who is involved with the CPU Agrifair. He had been promoting Moringa (Malunggay) all over the world, offering seminars and workshops on the basics and manufacturing technologies for Moringa. In his book "The Miracle Tree", Palada emphasized that the leaves of Malunggay essentially can boost the immune system in fighting, when the body is attacked by deadly viruses.

This writer would like to share an experience with his rediscovery of Moringa leaves and its efficacy in health and nutrition. Boiling the leaves (2 to 3 medium-size 'paklang') of Moringa can substitute a cup of instant coffee. Tastewise, "I got used to drinking 3 to 5 times a day of the Moringa brew, instead of instant coffee, and feel healthy without any side effects."

The Enhanced Community Quarantine is a time for us to plant vegetables in our backyard to augment our food sustenance. *

URC holds 17th Research and Development Week

Dr. Mary O' Penetrante explains her observations and conclusions on the research of the students.

The University Research Center of Central Philippine University held its 17th Research and Development Week from March 9 to 13, 2020 – with Symposia for both faculty and students. This year's theme is "Resiliency and Sustainable Development."

For the College students, the Research Symposium was their 18th which was held from March 10-13. The students were required to participate in research development presentations



held at CPU Educational Media Center (EMC) Conference Room. The students also participated in discussions at the Senior High School Library and at the College of Hospitality Management-La Azotea at the CHM Building. On the other hand, it was the 21st symposium for the CPU Faculty held from March 9 to 10 at CPUEMC Conference Room.

The Opening Program of R & D Week was held from 8:00AM to 12 noon at EMC. Registration started at 7:30 AM. The Invocation was given by the University Church's Christian Education Director, Rev. Ruth G. Lunasco. Dr. Teodoro C. Robles, University President, welcomed the participants and congratulated them for their participation in the Research Symposium.

An overview of the R & D Week was presented by Dr. Mary O' T. Penetrante, Director of the University Research Center. The Keynote Speaker was introduced by Engr. Bernie C. Cangrejo. In a message sent by Keynote Speaker, Engr. Rowena R. Gelonga, CESO II, she emphasized the importance of resiliency and sustainable development.

The Panel Discussants from other universities and government agencies are listed below:

Honey Mae Osimco
Dr. Carmelo V. Ambut
Engr. Ninaliza H. Escorial
Prof. Lerma L. Panes
Hon. Ronaldo V. Golez
Dr. Rodelio F. Subade UPV
Ms. Keithlyn Sarah Bernardino

DTI Region 6, Iloilo City
VP for Research and Extension, ISAT University
DOST-PCIEERD
Chair Research Utilization Committee WWHRDC
Mayor, Municipality of Dumangas
Chair, UPV Sciences
Head, R & D Management, DOST 6

"Teamwork is the ability to work together toward a common vision. The ability to direct individual accomplishments toward organizational objectives. It is the fuel that allows common people to attain uncommon results." – *Andrew Carnegie*

CPU hosts 2nd International Conference on Translational Research

Central Philippine University, Iloilo Mission Hospital (IMH), Capiz Emmanuel Hospital and Iloilo Mission Hospital Nurses Alumni Association (CCINAA) hosted the 2nd International Conference on Translational Research with the theme "*From Bench to Bedside: Improving Outcomes of Care of Surgical and Transplant Clients thru Translational and Quality Improvement Initiatives*" on January 22 to 23, 2020, at the Rose Memorial Auditorium.



Atty. Alibogha hands certificate to one of the speakers, Dr. Cymorr Kirby Martinez.

commitment to improving the lives of hundreds and thousands of people. The Conference was officially opened by Prof. Annalie Gilongos, President of the CCINAA.

Atty. Salex E. Alibogha, Dean, College of Nursing, encouraged nurses "to double their efforts in improving outcomes of care to and transplant clients through translational research and quality improvement initiatives." He also emphasized his strong desire for participants to "create a culture of excellence in their individual institutions as a network and interact with one another in sharing best practices in research and innovation" through the two-day conference.

There were 12 Plenary Resource Speakers in the conference from different Nursing Schools and Universities and Medical Centers from the country and abroad.

The Keynote Speakers in the two-day conference were Dr. Lourdes Marie S. Tejero, Director, Technology Transfer and Business Development Office, University of the Philippines Manila; Rossini Gayares-Jovero, Senior Liver Transplant Coordinator; and Dr. Michael Joseph Diño, Director, Research, Development, and Innovation Center, Our Lady of Fatima University. *



The two-day conference aimed to bring together leading academic scientists, researchers and scholars in the fields of nursing and allied health sciences to share their knowledge and experiences.

Participants were able to share novel research findings in peri-operative and transplant nursing at the conclusion of the two-day academic discourse. The findings also included proposals for advanced translational ideas/insights and quality improvement initiatives, as well as the role of the multidisciplinary health care team in the care of surgical and transplant patients.

"While it is true that our body is not our own, and that our life is but temporary, we are endowed with intelligence to take care of this fleeting gift while we live in accordance with God's will," University President Dr. Teodoro C. Robles stated in his published message in the International Conference.

Dr. Robles expressed gratitude and pride to the College of Nursing for its dedication and

University Directors Present Research Papers during the Global Summit Education in India



Dr. Sabijon (1st from the right), and Dr. Penetrante (2nd from the right) with other summit presenters, participants and organizers.

Excellence (CPU-CTLE) and Dr. Mary O' T. Penetrante (D. Mgt.), Director of the University Research Center (URC) presented their research papers entitled "Standards for Teacher Evaluation Based on Evaluation Instrument" and the "State of Entrepreneurship Education Among Business Schools in Iloilo City, Philippines Through the Lens of Students and Teachers" respectively, during the plenary presentation.

In addition to being one of the research speakers, Dr. Sabijon was a panelist during the program's "Panel Discussion by Eminent Educationists." He was among a group of distinguished educators from India, Nepal, and Bangladesh, as well as other panelists from the participating countries.

Central Philippine University actively participated in the 2nd Global Summit on Education, which took place on December 6-7, 2019, by sending two qualified university directors to speak in the plenary session.

Research presenters and speakers from the United States, Ukraine, Vietnam, the Philippines, France, Nepal, Bangladesh, India, and other nations attended the summit at Adamas University in Kolkata, India.

Dr. Ananias C. Sabijon, Jr. (Ph.D. in Education), Director of CPU Center for Teaching and Learning

The global summit was organized by the Global Educators Initiative for Sustainable Transformation (GEIST) International Foundation (GIF) and the Adamas University. GIF is a "registered non-profit organization established with the prime objective of improving global competence among students and educators globally, especially state alumnus community." Meanwhile, Adamas University is the "top-ranked Private University in Eastern India" and "since its inception, it has pursued excellence not only as a goal but as a way of life."

“Whatever you do, work at it with all your heart, as working for the Lord, not for human masters, since you know that you will receive an inheritance from the Lord as a reward. It is the Lord Christ you are serving”. *Colossians 3:23-24*

IMPACT ASSESSMENT OF COMMUNITY-BASED FOREST MANAGEMENT-COMPREHENSIVE AGRARIAN REFORM PROGRAM (CBFM-CARP) Projects in (14) Sites in Region VI (Western Visayas)

By Salex E. Alibogha, Charlie D. Baldon, Alvin John H. Gustilo, Reynaldo N. Dusaran, Sarla F. Duller, Rowena M. Libo-on and Melba C. Sale

This investigation aimed to assess the impact/changes that occur in the lives of the people and people's organization in terms of social, economic, health and environmental effects brought about by CBFM-CARP projects to the lives of fourteen (14) CBFM people's organization after seven (7) years of implementation.

Community-Based Forest Management (CBFM) is a unique forestry approach that recognizes the crucial role of communities and people's organization (POs) as legitimate resource managers of the country's forest resources. CBFM officially started in 1995 as a government strategy for sustainable forest management (Guiang et al., 2001) through Presidential Executive Order (EO) No. 263, identifying the Department of Environment and Natural Resources as the ally agency for this program. To enable conditions for better resource access and improved user rights, long-term tenures were issued to the identified beneficiaries of the project.

In summary, CBFM is anchored in 14 key concepts (Guiang, et al. 2001), these are: (1) democratization of access to forests and forest resources, (2) improvement of the socio-economic conditions of those living in upland communities, (3) decentralize and devolve the management of forests and forests land, (4) preserve the ecological integrity of upland areas. The assumption is, if the socio-economic conditions in these communities are improved and they are effectively tenured, conservation of biodiversity will follow.

Following the rationale of the need for this study, this assessment has the following specific objectives: (1) to carry out an impact assessment study of fourteen (14) CBFM-CARP projects implemented in 2012 to 2015 within Western Visayas region based on three criteria: social, economic and environmental, and (2) to assess the changes that occur socially, economically and environmentally brought about by the CBFM-CARP projects to the lives of CBFM people's organizations (POs) after seven (7) years of implementation.

In order to meet the objectives of the study and determine impact of the project among the people's organization, their members and communities in terms of social, economic and environmental aspects of their lives a work plan schedule was detailed in order to comply with the deliverables. This was intimated in the inception report submitted to the Department of Environment and Natural Resources, Regional Office No.6. A team composed of research consultants, statisticians, field supervisors and field interviewers/data gatherers were deployed in order to gather the necessary data for this impact assessment.

A descriptive-comparative research design was used in this study following FMB Technical Bulletin No.9. A combination of quantitative and qualitative

approach was employed to arrive at the data of the study. These consisted of primary and secondary data gathering approaches such as face to face interview, key informant interviews and focus group discussions. Secondary data from various agencies and literature reviews were used to further supplement the results of the study. Data processing was done using the Statistical Package for Social Sciences (SPSS) which generated descriptive and inferential statistics need to analyze and interpret the results of the study. FMB Technical Bulletin No.9 guidelines were used as the bases to answer the question, "What has changed from the very beginning of the project to seven (7) years thereafter?" This method measured the project outcomes, impact and demonstrates the success of the CBFM-CARP project in fourteen (14) areas. It is a gauge to provide sound feedback to decide whether or not to innovate changes in the project in order to continue it or decide to end the same.

A total of fourteen (14) CBFM-CARP projects that were implemented in 2012 in Western Visayas were evaluated in 2019. Four (4) projects sites were evaluated in the Province of Guimaras. This was followed by three (3) sites in the Province of Iloilo. In three provinces (Aklan, Antique and Negros Occidental), two (2) project sites in each province were assessed while only one (1) project site in the Province of Capiz.

In summary, the respondents interviewed for this study were predominantly female, married, middle aged adults ranging from 40-60, elementary educated belonging to households with approximate size of 3-4 members. Farming is their main source of income, followed by other secondary sources such as skilled labor, small business, government subsidy or remittance. Majority also identified themselves as Roman Catholics and of Ilonggo (Hiligaynon) heritage/descent.

Based on the data gathered, all of the fourteen (14) projects sites surveyed were able to derive/obtain positive benefits from CBFM-CARP projects in one way or another, either through higher production of crops, increase in income streams and through the use and consumption of various resources that were made possible through the CBFM funded projects.

Consequent to economic benefits derived from these funded projects, the project beneficiaries reported a positive impact in their social well-being, as evidenced by different goods and services increasing the availability, affordability and accessibility as sequelae of these interventions.

In terms of environmental effects these funded projects have enriched the diversity of flora and fauna because of ancillary activities that sought to improve the condition of forest and animal resources. *

THE LIVED EXPERIENCES OF BAPTIST MINISTERS

Bernabe C. Pagara

ABSTRACT

The intent of this study is to utilize a phenomenological qualitative paradigm to explore the lived experience of the Baptist Ministers as full-time within the church. The conceptual framework was shaped by the following theories, namely: Rambo's (1993) dialectical and process-oriented stage model of religious conversion, the classic and contemporary research paradigms on conversion and transformation which focuses on dramatic religious conversion, John L. Holland's theory of vocational choice on career development, Carlyle's great man theory of leadership, and Maslach's (1976) burnout theory. Data were collected using face-to-face semi-structured interviews with four (4) pastors who are currently leading their respective congregations. Data collected included transcribed interviews, field notes, and observations. Data were hand-coded to

find key concepts and themes. Five themes that emerged from the data were: transformation of a "prodigal son", God's provision and awareness of workload and responsibilities in pastoral work, dealings with ups and downs of pastoral work, leadership in the ministry, and receiving "manna" as eternal gift. The results of this study contributed to a better understanding of the factors that led to clergy stress and burnout. The results of this study may address a gap in literature and may result in positive social change for both the clergy and church congregants because the results can be used to come up with solutions on pastoral leadership issues and for stress and burnout.

Keywords: Conversion, Vocation, Church, Pastor, Ministry

COMPUTER-ASSISTED ELECTRICAL LOAD DESIGN AND ANALYSIS SYSTEM USING BEST-FIT ALGORITHM

Marjoree Rose Parreño

ABSTRACT

The data gathered from the Philippine Statistics Authority as stated by Bersales, L. G. S., (2018), shows that the leading cause of fire incidents in the entire country was due to electrical connections and the number of incidents increases every year. This study focused on emerging technology and electrical design analysis to generate an electrical plan that conforms with the Philippine Electrical Code by employing best-fit algorithm in the process of assigning protective devices, wires and conduits. The Computer-Assisted Electrical Load Design and Analysis System (CAELDAS) was developed using the Rapid Application Development (RAD) model utilizing the iteration process in the design and construction phase. This allows the changes in the requirements and still be able to address the issues that emerge in the design. The system can create

both single phase and three phase projects that addresses the types of voltage supply in the electrical structures. The system can also calculate the load currents and circuit amperage needed to generate a design analysis template, load schedule and one line diagram. Results show that CAELDAS has provided the electrical design engineers a means to keep track of the different electrical loads and a reliable way to perform calculations by minimizing human errors in the load analysis stage. It was evaluated by experts in the field of electrical design using ISO 20510 as an excellent software application based on the five-point Linkert scale rating.

Keywords: Electrical loaded design, Emerging technology, Analysis system, Algorithm

ASSESSMENT OF THE AHCONNECT STRATEGY UNDER THE ALTERNATIVE HEALTH SERVICE POINTS FOR ADOLESCENT HEALTH AND DEVELOPMENT PROGRAM OF THE DOH-RO VI

Raquel L. Polec-ee, Gift D. Tragico, Florabel S. Suarez, and Rea P. Balontong

ABSTRACT

This mixed-method study sought to describe AHConnect strategy based on profile of clients and their concerns; assess the strategy in terms of adolescents' awareness; quality of topics/information provided; strategy's degree of importance; clients' degree of satisfaction; and assess the suitability of IT equipment used in the strategy. AHConnect clients and personnel were the participants of the study. A 13 item validated researcher-made online questionnaire and a 20 item evaluation tool, based on ISO 9126-1 standard, for the evaluation of the IT equipment were utilized. Descriptive statistics such as frequency, rank, and means were employed. Results revealed that the strategy assisted about eight hundred seventy – three adolescents, addressed one thousand thirty – eight issues and concerns mostly relating to issues such as Relationships, Peers, Early Sexual Activity, and Home; with majority of clients who were 15 – 19 years old, residing in the Province and City of Iloilo. Participants claimed there was "Good" quality of information provided, deemed it as "Very Important", and were

"Satisfied" with AHConnect services. The following themes emerged: "Peer pressure has an internal dimension and the individual has a personal control of the issue"; "The AHConnect is a shelter for the troubled youth"; "Family support is a critical factor for the recovery of adolescents with peer issues"; and "The quality of the AHConnect services is equated with the counselor qualities/attributed observed from the AHConnect staff". Suitability of IT equipment was rated as "Good" with Usability as the highest quality among the evaluated characteristics. The system should be run in a multiple user set-up where there is a main server that will store all data and where other computers are connected. Re-orientation, provision of additional personnel, enhancement of IT equipment system, and promotion to public and private high schools, municipalities, and barangays are recommended.

NITRITE CONTENT OF PROCESSED MEAT PURCHASED IN PUBLIC MARKETS AND GROCERY STORES AROUND ILOILO CITY, PHILIPPINES

Jun Ozbert M. Haguisan and Ann Marie P. Alguidano

ABSTRACT

Nitrates and nitrites are used to develop cured meat color, act as preservatives and further affects flavor. Too much nitrite from meat could produce nitrosamines which are carcinogenic, related to spontaneous intrauterine growth restriction, abortions, birth defects and Methemoglobinemia or "blue baby syndrome". This study aimed to determine the concentration of nitrite in different processed meat purchased in markets and grocery stores around Iloilo City and compared to the levels set by BFAD. Cured samples of hotdog, ham, longganiza, chorizo and tocino were purchased from different public markets and grocery stores around Iloilo City. The nitrite content of these cured meat products were analyzed using a UV-Vis spectrophotometer and the results were within the limits set by BFAD which is 416ppm for chorizo, toci-

no and longganiza; 168ppm for ham and 134ppm for hotdogs. The Acceptable Daily Intake (ADI) of 0.07 mg nitrite per kg body weight was set by JECFA-WHO/FAO. On the basis of a 65kg body weight, daily consumption must not exceed 42g, 117g, 170g, 262g, and 94g for chorizo, tocino, longganiza, ham and hotdog respectively. On the basis of a 25kg child, the hotdog consumption must not exceed 36g. It is advised to eat cured meats in moderation to prevent the bad effects of nitrite consumption.

Keywords: nitrate, nitrite, nitrosamines, carcinogenic, processed meat, UV-Vis spectrophotometer, Acceptable Daily Intake (ADI)

DEVELOPMENT OF NUTRACEUTICAL PRODUCT FROM *IPOMEA BATATAS* LEAVES, *CLITORIA TERNATEA* FLOWERS AND *CITRUS MICROCARPA* FRUITS

*Mylyn L. Poral, Darlene Joy J. Marañon, Vincent Anthony V. Militante, Analie S. Serafino,
Ma. Jean A. Amistas and Anna Liza D. Jamias*

ABSTRACT

Natural products have been used by humankind throughout history to treat a variety of conditions and diseases. Indeed, up to one third of Food and Drug Administration (FDA) approved drugs are natural products or based on the structure of a natural product. Thus, this study aims to develop nutraceuticals product from *Ipomoea batatas* leaves, *Clitoria ternatea* flowers and *Citrus microcarpa* fruits. The method used to formulate the plant materials into powder form was Spray-drying method, a well-established and widely used technique to formulate powders. The study revealed that among the three plant materials, *Ipomoea batatas* leaves exhibited the highest antioxidant activity. Furthermore,

the antioxidant activity of the combined plant material was also determined. 1:1:1, 2:1:1, 3:1:2 ratios of the concentration of *Citrus microcarpa* fruits, *Ipomoea batatas* leaves and *Clitoria ternatea* flowers were used. Among the three concentrations, the ratio 1:1:1 produced the highest antioxidant activity. Thus, the equal amount of the plant materials executed synergistic effect. Thus, the data suggest the potential utility of the 1:1:1 concentration of the plant powders as a nutraceutical product.

Keywords: Food Safety, Security, Nutrition, Nutraceutical Product Development, Drug Delivery

AWARENESS, AVAILMENT, ASSESSMENT AND IMPORTANCE OF STUDENT SERVICES

*Margen A. Java, Maredil E. Ambos, Gift D. Tragico, Betty C. Ermitaño,
Eunice G. Alayon, Cheyenne Rouella C. Aberia*

ABSTRACT

This descriptive-relational study was conducted to determine the awareness, availment, assessment and importance of student services among the 361 students of Central Philippine University during the School Year 2018 - 2019. A revised duly validated and reliability tested questionnaire was used and ethical considerations for the study were followed. Data were analyzed using frequency count, percentages, Chi Square, Cramer's V and Gamma. The findings are: the profile of the respondents show that there are more females, younger group, Roman Catholics, first and fourth year students from the Colleges of Business and Accountancy, Engineering and Arts and Sciences; coming from barangays; graduated from either public or private high schools either located in the cities or towns; and, are living with their parents in their own house while studying in the university. The respondents are very much aware of the existence of the student services and

programs of the university during the two school years of the survey (2015 and 2018), have attached a great value upon the existence of these student services and programs in the university; and, are aware and have availed of the services and programs under the VPSA. Based on the findings of the study, the following conclusions are drawn: the respondents' place of origin is significantly related to the importance they attach to student services and programs in general of the university. The respondents' awareness of student services and programs under the Office of the Vice President for Student Affairs is significantly related to their availment and assessment of these services and programs.

Keywords: awareness, availment, assessment, importance, student services, efficiency, effectiveness, sustainability

COMPLETED INSTITUTIONALLY FUNDED RESEARCHES

1. **Socio-Cultural, Economic, Community Involvement and Priority Needs of Communities in the Barangays of Badiangan, Iloilo: Basis for Enhancing the University Integrated Outreach Programs**
-By Aries Roda D. Romallosa, Margen A. Java and Kareen Jay D. Lozada (November 2019)
2. **Impact study on the CPU Integrated Outreach Activity for Borongon and Nipa, San Dionisio, Iloilo**
-By Myrna T. Luceño, Levi O. De Los Santos, Jr., Lennon Pajar, Armando M. Hisuan, Jr, and Mary Ann Garrido (completed October 2020)
3. **Impact study on the CPU Integrated Outreach Activity for Barangay Pili, Ajuy, Iloilo**
-By Myrna T. Luceño, Armando M. Hisuan, Jr, Mary Ann Garrido, Lennon D. Pajar and Juvy Joy D. Guatelara (October 2020)
4. **Impact study on the CPU Integrated Outreach Activity for Borongon and Nipa, San Dionisio, Iloilo**
-By Levi O. De Los Santos, Jr., Lennon Pajar, Myrna T. Luceño, Armando M. Hisuan, Jr, and Mary Ann Garrido (November 2020)
5. **A Phenomenological Study of the Lived-Experience of Teachers Teaching Qualitative Research in Public Schools in the Municipality of Maasin, Iloilo, Philippines**
-By Dr. Irving Domingo L. Rio, Renia Dela Peña, Gynnyn Gumban, Eric Otayde and Alfonso Catolin (completed January 2021)
6. **Teachers' Perceived Leadership Behaviors and Morale: The Philippine Context**
-By Bernabe C. Pagara (completed December 2021)



ONGOING INSTITUTIONALLY FUNDED RESEARCHES

1. **Title:** Design, Construction and Evaluation of a Pilot-Scale Plant Bed Wastewater Treatment System to Treat Wastewater from Central Philippine University (CPU)
Researchers: Dahlia Pescos, Mark Jewel Lastimoso, Glesyl Ann Pelias, Adhara Pumares and Jan Ivan Romero
2. **Title:** Cohort Study on College Entrance Scholars at Central Philippine University from SY 2018-2019 Onwards
Researcher: Margen A. Java, Rea P. Balontong, Margee Rose B. Parreño and Rose Leah Joy A. Ojacas-tro
3. **Title:** Design, Development and Testing of Mechanical Potato Cleaner and Size Grader Prototypes
Researchers: Aries Roda D. Romallosa, Dany C. Molina, and Bernie C. Cangrejo
4. **Title:** Educational Leadership Amidst Political and Socio-Economic Challenges: A Case of an Internationally Trained Leader
Researchers: Anna May Yap-Zerrudo and Kay Arden Gallo
5. **Title:** Development and Evaluation of Modules in Basic Filipino for Non-Filipino Speaking Students
Researchers: Eden Gomez, Liza V. Do-oma, Nenita Mino, Ma. Alina Pescadera, Edgar A. Eriman, Merle L. Junsay, Nelson A. Pomado, Belinda Valaquio, Anna May Yap-Zerrudo, Annalee L. Conjin and Leilani Fatimah Ledesma
6. **Title:** Utilization and Evaluation of Lanzones (*Lansium parasiticum*) Into Wine
Researchers: Armando M. Hisuan, Jr., Myrna T. Luceño, Shiman Giner and Denie Erwin Tan
7. **Title:** Extent of Partnership, Challenges, Success Factors and Satisfaction of Key Stakeholders of CPU
Researchers: Jazel May Juntoria, Dimpna Castigador and Levi Delos Santos, Jr.
8. **Title:** Why are Academic Librarians Reluctant to do Research: A Phenomenological Study
Researchers: Irving Domingo L. Rio and Allana Delgado
9. **Title:** Extraction and Fractionation of Bioactive Components from Spent Coffee (*Coffea canephora*) Grounds with *a-Amylase* and *a-Glucosidase* Activity
Researchers: Mizpah C. Villalobos and Leojen Torres
10. **Title:** Insights and Experiences on the Online Delivery of the Early Years Learner Curriculum Model: A Parent's Perspective
Researchers: Praise E. Glory and Pearl Joy S. Madrid

COMPLETED EXTERNALLY FUNDED RESEARCHES

- 1. Healing Practices Using Popular Plants in China and Philippines: A Comparative Study**
- By Dr. Stella G. Fernandez and Dr. Nicolas G. Guanzon, Jr. (completed July 2020)
Zhengzhou University of Industrial Technology, China, Central Philippine University, Philippines and Filipino-Chinese Youth Culture Promotion INC.
- 2. Pre-Hospital Duty Preparations of Nursing Students at Central Philippine University and Zhengzhou University of Industrial Technology: A Comparative Study**
-By Prof. Nelida L. Lamasan, Prof. Melba C. Sale and Prof. Marites L. Robleza (completed October 2020)
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- 3. Street Food Culture in Zengzhou City, China and Iloilo City, Philippines: A Comparative Study**
-By Dr. Myrna T. Luceño and Dr. Armando M. Hisuan, Jr. (completed November 2020)
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Funded by Palm Concepcion Power Corporation (PCPC) Ortigas, Center, Pasig city
- 5. Impact Assessment for Community-Based Forest Management Comprehensive Agrarian Reform Program (CBFM-CARP) Projects in 14 Project Sites in Region 6**
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Funded by Department of Environment and Natural Resources (DENR) RO 6



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-By Merle L. Junsay, Mary O' T. Penetrante, Maredil R. Ambos, Dany C. Molina, Ma. Christina Quijano, Joan Iven Abello, Belinda Valaquio, Esther Rose Romarate, Aries Roda D. Romallosa, Gelbert Jan Porque and Anna May Zerrudo
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-By Mary O' T. Penetrante
USAID/UPPAF-RESPOND 2020 (URC Consultancy)
- 5. Verification and Standardization of Processing and Concentration of Garlic, Betel Nut, and Asiatic Bitter Yam against *Mycoplasma gallisepticum* and Internal Parasite of Philippine Native Chicken**
-By Jaime C. Cabarles, Jr.
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