

USTP conducts virtual Research Summit amidst COVID-19

USTP conducted the System-Wide Virtual In-House Research Summit with the theme “Building Innovative and Sustainable Research in the New Normal amidst COVID-19 Pandemic Disruptions” from October 29 to 30, 2020.

The Research Summit is an annual event which is organized by the Research Office, which aims to escalate the research and development potentials of the faculty as they prepare for productive scientific undertakings and collaborations with other researching professionals from



the government, industry, and academe.

This year's Summit featured six streams, namely Food Security and Safety, Energy Sufficiency and Security, Information and Communication Technology, Industrial Development and Environment, Infrastructure and Transportation, and GAD-related Studies. For each stream, three industry experts gave their critique as evaluators.

Dr. Ismael Talili, Director for Research, called it an opportunity to “learn, unlearn, and relearn”

further saying, “From the research outputs presented, I wanted you to understand and realize on their value and potential utility or impact to society.”

“I hope that what you have got in this Summit will help you a great deal in your quest for research productivity,” he added.

Winners were awarded cash prizes and certificates.

BEST POSTER AWARD

STREAM A: FOOD SECURITY AND SAFETY

1st
Productivity of Red-fleshed Dragon Fruit (*Hylocereus costaricensis* Weber) as Influenced by Different Levels of Phosphorus under Claveria, Northern Mindanao Agroecosystem
Duff Sarausa, Apolinario Gonzaga Jr., Nelda Gonzaga, Anthony Dollen

2nd
Solanum tuberosum Disease Detection and Identification Using Machine Learning
Mark Lister Nalupa, Shenna Mae Hurtado, Christine Polinar, Jasmin Tabamo

3rd
Yield Performance of Cassava (*Manihot esculenta* Cranz) as Influenced by Methods of Planting
Norman Razalo, Apolinario Gonzaga Jr., Nelda Gonzaga, Duff Sarausa

BEST PAPER AWARD

STREAM A: FOOD SECURITY AND SAFETY

1st
Effects on Nanofertilizer on Yield and Berry and Berry Development of Robusta Coffee
Anthony Dollen, Apolinario Gonzaga Jr., Reynante Taylaran, Nilda Gonzaga

2nd
Physico-Chemical Evaluation of Red-Fleshed Dragon Fruit (*Hylocereus polyrhizus* Britton and Rose) as Influenced by Potassium Fertilization
Judife Magallanes, Nelda Gonzaga, Apolinario Gonzaga Jr.

3rd
Productivity Enhancement of Yard Long Bean (*Vigna unguiculata* ssp. *sesquipedalis*) using Various Detopping Intervals
Bryan Glomel Silverio, Nelda Gonzaga, Apolinario Gonzaga Jr., Reynante Taylaran

BEST ABSTRACT AWARD

ORAL PRESENTATION - STREAM A: FOOD SECURITY AND SAFETY

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Anthony Dollen, Apolinario Gonzaga Jr., Reynante Taylaran, Nilda Gonzaga

2nd
Automated Coconut Sap Drier and Grinder Machine
Dexter Duat, Kevin Magpayo, Erich Abad, Dominic Cagadas, Marvin Buna

3rd
Dynamics on Pesticides Usage by Vegetable Growers in the Highlands of Northern Mindanao, Philippines
April Mae Batuligas, Nelda Gonzaga, Apolinario Gonzaga Jr., Stephen Harper

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BEST POSTER AWARD

STREAM B: ENERGY SUFFICIENCY AND SECURITY

1st
Biohydrogen Production from Cassava Waste Pulps via Dark Fermentation Process
Reymar Jaro, Aaron Jan Felix Balbin, Leonil Anthony Bornillo, Hazel Gonzales, John Harold Tagupa

2nd
Design and Development of S822 Propeller for Horizontal Axis Hydrokinetic Turbine
Kenneth Jame Bryle Magsayo, Ronniel Cent Villanueva, Ruel Pallugna

3rd
Design and Development of Low Power Lighting System in Tangub Hot Spring, Camiguin Island Using Innovative Thermoelectric Generator
Erich Abad, Larry Mae Bucabal, Jesus Simplicio Palarca, Christian Uy

BEST PAPER AWARD

STREAM B: ENERGY SUFFICIENCY AND SECURITY

1st
Design and Development of Pico Hydro Power Test Rig
Ma. Leona Maye Pepito, Leonel Pabilona, Eliseo Villanueva, Reuel Pallugna

2nd
Design and Development of Banki Turbine for Food Refrigeration
Kenneth Jame Bryle Magsayo, Reuel Pallugna

3rd
Energy and Exergy Analyses of Biomass Fuelled Multi-Commodity Dryer
Marvin Rosales, Consorcio Namoco Jr., James Jimenez

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STREAM C: INFORMATION AND COMMUNICATION TECHNOLOGY

1st
Classification and Counting of Fishes in Burias Shoal, Marine Protected Area (MPA) Using Convolutional Neural Network
Aileen Sieras, Lea Malaran, Vanessa Coleen Lihát, Mark Adam Galamiton

2nd
Microscope's Digital Camera: A Device in Identifying *Escherichia coli* Using Computer Vision Technology
Mark Lister Nalupa, Silas Bruce Banjao, Mary Jane Estorosas, Cloyd Romero Villafuerte

3rd
Community Resilience through Effective Communication System for Android Phone using Lorawan
Mary Ann Telen, Nino Anthony Asino, Ailyn Subteniente, Mae Virtudazo

BEST PAPER AWARD

STREAM C: INFORMATION AND COMMUNICATION TECHNOLOGY

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Wireless Monitoring System for the Analysis of Coconut Sap for the Production of Coco Sugar
Miriam Bergado, Vaneza Ybanez, Mirasol Augusto, Dennis Digal

2nd
Surface Area-Based Quantifying and Monitoring System for Zoea Alternative (Mansanitas Seeds) Through Image Processing
Aileen Sieras, Lea Malaran, Vanessa Coleen Lihát, Mark Adam Galamiton

3rd
Design and Implementation of Faculty Class Attendance Monitoring System Using BLE Beacons
Anna Fay Naive, Paul Joseph Estrera, Archie Pachica

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3rd
A Device for the Blind to Identify Medicine Label using Convolutional Neural Network
Miriam Bergado, Vanessa Cabsag, Mel Liza Limbago, Ray Victor Dancila

BEST POSTER AWARD

STREAM D: INDUSTRIAL DEVELOPMENT AND ENVIRONMENT

1st
Analysis of Heavy Metal Accumulation in Selected Marine Fishes Sold by the Fishers of Misamis Oriental
Melinda Oculam, Rehdon Ed Donque, Manuelito Oraiz, Fer John Solis

2nd
Multi-Controlled Twinning Machine
Rozano Pimentel, Romeo de Asis, Alenogines San Diego, Rolando Beron, Mark Anthony Talvo

3rd
The Effect of Vermicast Mixture on the Growth of Different Mangrove Species
Mark Arcilla, Mela Singcay, Merneth Maghanoy

BEST PAPER AWARD

STREAM D: INDUSTRIAL DEVELOPMENT AND ENVIRONMENT

1st
Development of a Chlorophyll Concentration Meter as an Alternative to SPAD-502 Using a Low Cost Color Sensor
Diogenes Armando Pascua, Christy Canete

2nd
Groundwater Recharge Estimation Using HEC-HMS for Sustainable Domestic Water Use: A Case Study for Talabaan River Basin, Misamis Oriental
Rengie Bagares, Guillermo Tabios III

3rd
Gall Rust Disease Severity in Falcata (Falcata moluccana (Miq.) Barneby and Grimes) - Based Agroforestry Systems in Misamis Oriental, Mindanao, Philippines
Richmund Plama, Lydia Tiongo, Oliva Canencia, Renato Boniao, Eric John Florida

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CET conducts virtual lecture with Hult Prize Foundation

On October 13, 2020, USTP's Center for Entrepreneurship and Technology held the virtual lecture "Explore the Feasibility and Market Needs using Online tools and Platforms."

The lecture was brought through the Hult Prize Foundation, which is the world's largest social impact competition. The Hult Prize Foundation aims to lead, empower, and transform how young people envision their own possibilities as leaders of change in the world around them. The competition has a massive prize of \$1,000,000 for the most impactful solution from a startup.

The guest speaker was Marrione Pol Camacho, the is the Business Development Manager for Draper Startup House and the Philippine Community Builder for the Hult Prize Foundation. He works with startups primarily to connect them with opportunities to grow their businesses. The USTP Entrepreneurship Lecture Series Program is a series of workshops under the Center for Entrepreneurship & Technology which aims to help the students to understand Entrepreneurship and help them validate their Innovative Ideas. The Lecture Series also aims to promote and build the startup ecosystem in the USTP System.

https://www.facebook.com/watch/live/?v=684551718935120&ref=watch_permalink

The screenshot shows a virtual lecture session with a grid of participants. The presentation slide at the bottom features the text: "Virtual Lecture Series: Explore the Feasibility and Market Needs Using Online Tools and Platform. October 13, 2020 11:10:00 AM". It also includes the USTP logo and a photo of Marrione Camacho, PH Community Builder, Hult Prize PH Foundation.

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Melinda Oculam, Rehdon Ed Donque, Manuelito Oraiz, Fer John Solis
- 2nd Preliminary Assessment of the Bacterial Composition of the Water Collected at the Sump Pit of the University of Science and Technology of Southern Philippines - Cagayan de Oro Campus
Jenesa Auguis, Jerrah Del Jenisan, Jessah Del Jenisan, Marvelisa Carmona
- 3rd Diversity Status of Mangrove Species in the Coastal Waters of Vincenzo Sagun, Zamboanga Del Sur
Annielyn Lasagas, Ruel Lasagas

BEST POSTER AWARD

STREAM E: INFRASTRUCTURE AND TRANSPORTATION

- 1st The Effects of Coal Fly Ash as Soil Stabilizer on California Bearing Ratio of Aduyon Clay along Mangima, Bukidnon
Vera Karla Cingales, Roxanne Galdo, Bryan Lanzaderas, Phoebe Bual
- 2nd RFID Traffic Violation Recording Device for RTA Enforcers
Miriam Bergado, Elman Torres, Arve Paulo Galvez, Shane Reto, Benjie Janlay Jr.
- 3rd Built-in Digital Operated Tire Inflator
Randolph Sollano, Joe Vane Antifuesto, Arjohn Alvarez, John Mark Baquilid, Reynante Gamali

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- 1st Utilization of Fly Ash and Rice Husk Ash Obtained in the Province of Misamis Oriental in Bricks Production
Liezl Jabile, Consorcio Namoco Jr., Jeffrey Ken Balangao, Dave Raphael Dumanat, John Paul Relacion
- 2nd Sugarcane Bagasse Ash as Cement Substitute in the Production of Concrete Paver Blocks
Israel Bahugin, Ira Kristine Magdale, Jaylord Mangubat
- 3rd Effects of Using Water-Reducing Admixture on the Compressive Strength of Concrete using Crushed Mangima Stone as Fine Aggregate
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STREAM F: GAD-RELATED STUDIES

- 1st Gender-based Analysis of Suicide Cases in Cagayan de Oro City
Billy Joel Ramos, Francis Thaise Cimene

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- 1st Significant Factors in Using Contraceptives Among Married Women in Cagayan de Oro City Using Binary Logistic Regression
Kennet Cuarteros, Jessyl Orlandes
- 2nd University Students' Feedback: Basis on Providing Student Services and Assistance at this Time of Pandemic
Ma. Angeles Hinosolango, Jerwin Borres, Mercyllyn Tanog, Joan Grace Duero, Ariel Tecson, Josie Jane Maghinay, Jessica Daug
- 3rd Women Farmers' Work Engagement and Awareness of Health Risks Resulting from Tobacco Farming Industry in Claveria, Misamis Oriental
Nueva Salaan, Dennis Mugot, Ramil Pagon, Maribel Tizo, Isabelita

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ORAL PRESENTATION - STREAM F: GAD-RELATED STUDIES

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- 2nd Ang Ritwal Ibabasok ng Tribong Higaonon sa Claveria, Misamis Oriental
Serina Jumauad, Anecito Sinag-od
- 3rd Women Farmers' Work Engagement and Awareness of Health Risks Resulting from Tobacco Farming Industry in Claveria, Misamis Oriental
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A peek inside the newly renovated USTP Gymnasium

Trailblazers will have something to look forward to when face-to-face classes resume. USTP Cagayan de Oro recently unveiled the newly renovated Gymnasium, or the Dr. Ricardo E. Rotoras Memorial Hall.

The gymnasium features maple wood flooring which is the same flooring used in NBA courts. Unlike the previous concrete flooring, wood flooring protects athletes from impacts on the surface. It has shock absorption that reduces injury to the joints and ligaments.

Students have already expressed their excitement on social media, with comments such as, "Makamigaw ug Intraams! (Makes you miss Intramurals)" and "Gimingaw ko'g dula ug basketball diri (I miss playing basketball here)."

The image shows the interior of the newly renovated USTP Gymnasium. Students are playing basketball on a court with maple wood flooring. The gymnasium has a high ceiling and large windows. A large "USTP" logo is visible on the wall.

The USTP CDO Gazette can now be accessed through the official website (cdo.ustp.edu.ph)! We are also inviting different departments to submit their articles thru: ustpcdo.news@gmail.com.

The USTP CDO Gazette is produced by the Planning and Monitoring Office (local 108).