

Session Program

October 20, 2025



Annual In-House Review 2025



Acad. Fernando P. Siringan, Ph.D.
Academician, National Academy of
Science and Technology (NAST)
Professor, UP Marine Science Institute
Keynote Speaker

23rd MSU-IIT Annual In-House Review of Research and Development Projects

Poster Presentations

MSU-IIT Gymnasium

Mon, October 20

1:00 PM

Poster Presentations: Business, Engineering and Technology

Session | **Location:** MSU-IIT Gymnasium

1:00 – 5:00 PM

Bioacoustic Signal-Based Insect Classification System Using Machine Learning

Speaker

Ariane Pearl Abunda

1:00 – 5:00 PM

Mask, Hairnet and Handwash Monitoring System using Deep Learning and IoT Technology (Phase 2)

Speaker

Keane Kiechel Tumanda

1:00 – 5:00 PM

Portable PLC Based Automatic ABACA Fiber Extraction Machine using Decortication Method

Speaker

Lester Librado

1:00 – 5:00 PM

Exploring Smart Village Readiness in Local Contexts: A Case Study using Technology, Organization, and Environment Lens

Speaker

Andrea Nicole Bautista

1:00 – 5:00 PM

CerMetaCS: Ceramic-Metal Composites for Structural Applications

Speaker

Ivyleen Bernardo-Arugay

1:00 – 5:00 PM

Effects of Mixing Time and Hydrogen Peroxide Concentration on the Synthesis of Foamed Self-Supporting Zeolite

Speaker

Carlo Alfaro

1:00 – 5:00 PM

Phase 2: Predicting River Water Levels and Barangay-Level Weather for Enhanced Local Resilience of Iligan City

Speaker

Mac Jiem Maghanoy

1:00 – 5:00 PM

Development of Anodic Cementation Reactor from Recycled Aluminum Cans to Selectively Recover Gold from Refractory Gold Ores using Copper Ammoniacal Thiosulfate solution as Lixiviant

Speaker

Joshua Zoleta

1:00 – 5:00 PM

Baseline Analysis of ICT Laboratory Assets and Stewardship Practices at MSU-IIT College of Computer Studies

1:00 – 5:00 PM

Development of drone-based computer vision-assisted pavement distress detection (Phase 3)**Speaker**

Melody Mae Maluya

1:00 – 5:00 PM

BahuraKrete™ : Advancing Coral Reef Restoration with 3D-Printed and/or Precast Lightweight Foamed Concrete Artificial Reefs with Circular Fish Foaming Agent and Agro-Industrial Wastes**Speaker**

Maria Sheila Ramos

1:00 – 5:00 PM

Development of a Data-Driven Automated Wing Wall Window for Enhanced Wind-Induced Ventilation in Buildings**Speaker**

Napoleon Enteria

1:00 – 5:00 PM

Carbon Sequestration through Seeded Mineral Carbonation of Scubbed CO₂ in a Semi-batch Reactor**Speaker**

Enialla Tiongson

1:00 – 5:00 PM

Synthesis and Characterization of Nanocrystalline Cellulose from Waste Cassava Pulp for Potential Supercapacitor Integration**Speaker**

Gabriel Dayot

1:00 – 5:00 PM

Preparation of waste mussel (*Mytella strigata*) shells as precursor for development of apatite powders**Speaker**

Liezl Jabile

5:00 PM

1:00 PM

Poster Presentations: Education, Arts, Humanities, and Social Sciences**Session** | **Location:** MSU-IIT Gymnasium

1:00 – 5:00 PM

Impression, Perception, and Acceptance of Open Educational Resources (OER) among Junior and Senior Undergraduate Students at the Mindanao State University - Iligan Institute of Technology (MSU-IIT)**Speaker**

Djamae Manzanares

1:00 – 5:00 PM

Gabay at tuntunin sa pagsasalin tungo sa pagbuo ng polisiya para sa programa ng MSU-IIT na nagsasagawa ng bilinggwal na talatanungan

Speaker

Loi Vincent Deriada

1:00 – 5:00 PM

Assessing the Physical-Practical, Socio-Emotional, and Cognitive-Metacognitive Skills of SHS TVL Track Students

Speaker

Rhea Confessor

1:00 – 5:00 PM

The Role of Artificial Intelligence in Enhancing Education Tools: Ethical Considerations, Inclusivity and Societal Impact

Speaker

John Jr. Adil

1:00 – 5:00 PM

Gender Disparities in the Juvenile Justice System of Iligan City and Cagayan de Oro City

Speaker

Antonio Merca

1:00 – 5:00 PM

Gender Equality in Obtaining a Deeper Understanding of the Implementation of Sustainable Cities and Communities Amid the COVID-19 Pandemic

Speaker

Antonio Merca

1:00 – 5:00 PM

The Experiences of Male and Female Students of BET - Mechanical Engineering Technology, MSU-IIT, Iligan City: A Longitudinal Study

Speaker

Antonio Merca

5:00 PM

1:00 PM

Poster Presentations: Natural Sciences and Mathematics

Session | **Location:** MSU-IIT Gymnasium

1:00 – 5:00 PM

Hidden Threat Revealed: First Report of Anaplasma spp. in Goats from Northern Mindanao, Philippines

Speaker

Carlo Stephen Moneva

1:00 – 5:00 PM

Silent Saboteurs: (The Hidden Impact of Parasites on Livestock Productivity and Public Health) A case in Iligan City, Philippines

Speaker

Leonardo Estano

1:00 – 5:00 PM

Integrating Morphological and eDNA Approaches for Diatom Community Monitoring to Support Sustainable Aquaculture in Lake Buluan, Maguindanao, Philippines

Speaker

Sharon Rose Tabugo

1:00 – 5:00 PM

Theoretical investigation of carbon nitride nanothreads and polymer nanocomposites

Speaker

Diamond Domato

1:00 – 5:00 PM

Spatio-temporal modelling of Dengue Cases in Caraga Region, Philippines

Speaker

Aljo Clair Pingal

1:00 – 5:00 PM

A new species and a new isolate of 'ZOMBIE FUNGI' in Rogongon, Iligan City and their Biocontrol potential against plat insect pest Tetranychus urticae

Speaker

Nanette Hope Sumaya

1:00 – 5:00 PM

Aryl Thiosemicarbazone Hybrids as Potential Antioxidant Agents

Speaker

Christine Trisha Nacua

1:00 – 5:00 PM

Rehabilitation Reimagined: Integrating AI and Smart Wearable Innovations in Clinical Gait Biomechanics to Optimize Musculoskeletal Recovery

Speaker

Sybil Encinares

1:00 – 5:00 PM

Assessing Fish Biodiversity and Ecological Health through its Physico-Chemical Parameters in Iligan Bay, Mindanao, Philippines

Speaker

Annielyn Tampus

5:00 PM