



# BATANGAS STATE UNIVERSITY

## The National Engineering University

### BATSTATEU'S 6TH INTERNATIONAL RESEARCH CONFERENCE ON INNOVATIONS IN ENGINEERING, SCIENCE, AND TECHNOLOGY (IRCIEST)

## BatStateU's 6<sup>th</sup> IRCIEST converges global innovation leaders in engineering, science, and technology



From November 22 to 24, Batangas State University, The National Engineering University (BatStateU), successfully conducted the 6th International Research Conference on Innovations in Engineering, Science, and Technology (IRCIEST). This conference, biennially organized by the BatStateU since 2013, brings together national and international researchers, academics, industry professionals, and students and serves as a platform for discussions on the latest advancements in various fields, aiming to contribute to academic and societal development. The 6<sup>th</sup> IRCIEST, themed "Propelling Transformations and Accelerating Reforms through Research and Innovations," emphasized the importance of adapting to changes in the global landscape.

*"As we chart the evolution of this international research conference, each theme from previous years—ranging from the inaugural theme 'Beyond Borders: Advancing Engineering, Science, and Technology for Multidisciplinary Convergence' in 2013 to the current focus on 'Propelling Transformations and Accelerating Reforms through Research and Innovations'—tells a story of ambitious growth and the relentless pursuit of knowledge in the face of an ever-changing global narrative,"* University President Dr. Tirso A. Ronquillo expressed as he reflected on the preceding years of IRCIEST.

The 6<sup>th</sup> IRCIEST Conference Chair, Engr. Albertson D. Amante, acknowledged the co-host universities for partnering with BatStateU in this much-awaited endeavor: the Indian Maritime University (IMU), the University College of Estate Management (UCEM) in UK, National Sun Yat-sen University (NSYSU) in Taiwan, and Universiti of Teknologi Malaysia (UTM). He also extended his appreciation to the panel speakers and innovation leaders who contributed highly to this significant event.

The Director of the Office of Education of the United States Agency for International Development (USAID), Ms. Michelle Chen delivered the keynote address, highlighting the support and initiatives of the USAID in fostering government, university, and industry ties to make innovation a key driver of prosperity in

the Philippines. She made a special mention of Dr. Ronquillo's close partnership with USAID in strengthening the Philippine higher education capacity by implementing innovative diagnostics with all state universities and colleges (SUCs) and leading the creation of the platform for innovating state universities and colleges 4.0.

*"As a partner in prosperity, the United States remains firmly committed to supporting the Philippines in its goals of making innovation the engine of prosperity and inclusive growth,"* Ms. Chen shared as she concluded her keynote speech.

The conference featured plenary sessions, panel discussions, and masterclasses with academicians, researchers, and innovators from the Philippines, Malaysia, Singapore, Taiwan, Thailand, Vietnam, Cambodia, Laos, India, Japan, Azerbaijan, the United Kingdom, and the United States as resource speakers.

The plenary session featured Dr. Malini V. Shankar, Vice Chancellor of IMU, discussing the significance of water resource management, waterways, water systems, irrigation, and the specialized programs offered by IMU.

In a panel discussion on "Sustainable Innovation in Universities," moderated by Dr. Vaberlie Mandane-Garcia, Director of Extension Services and Head of the Center for Sustainable Development at BatStateU, participants included Dr. Muhammad Rana, Lecturer at UCEM; Prof. Kou Ikejima, VP for Education at Kochi University, Japan; Dr. Chua-Chin Wang, VP for Research and Development at NSYSU; and Dr. Nurzal Effiyana Binti Ghazali, Director of the Center for Engineering Education at UTM.

The panel on Space Applications was moderated by Engr. Edgardo Titus Kaalim Jr., Executive Assistant to the University President at BatStateU. Speakers included Dr. Raynell A. Inojosa, Senior Science Research Specialist at the Philippine Space Agency (PhilSA); Mr. Neil Jadhav, Co-founder and CEO of MMC (Map My Crop), New York, USA; and Dr. Mark Angelo Purio, Head of the Space Technologies & Applications Research Laboratory at Adamson University, Philippines.

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A discussion on "Innovation Ecosystem Development," moderated by Engr. Albertson D. Amante, VP for Research, Development, and Extension Services at BatStateU, featured Mr. Nikita Yudin, Project Coordinator at the Innovation Ecosystem Department in Baku, Azerbaijan; Mr. Anish Anthony, Chief Operations Officer at T-Hub, India; Dr. Lukman, S.T., M.Hum., Director for Organizational Management, Directorate General of Higher Education, Research and Technology and Director at PRIME STEP; Mr. Neelesh Bhatia, Senior Associate Director at NUS Enterprise, National University of Singapore; and Ms. Russell Pili, Chief of the Research Information and Technology Transfer Division (RITTD) at the Department of Science and Technology Philippine Council for Industry, Energy and Emerging Technology Research and Development (DOST-PCIEERD).

The "Conquering the Valley of Death" panel, moderated by Mr. Marianne Pol Camacho, Strategic Partnerships Senior Manager at Kickstart Ventures, included Engr. Aisa Mijeno-Labastilla, Founder of Sustainable Alternative Lighting (SALt) Lamp, Mr. Jae Mamorbor, Founder and CEO of TakeFive Outdoors, and Engr. Sergio O. Ramos III, MSc., President of PCI Teach Innovations Center, Inc.

Parallel masterclasses were facilitated by experts like Engr. Lorenz Yatco, Field Engineer at Braemac; Engr. Jose Miguel B. Reyes, Applications Engineer at Cad-IT Consultants (Asia) Pte. Ltd.; Dr. Sheeja Janardhanan, Associate Professor and Head of the School of Naval Architecture and Ocean Engineering at IMU Visakhapatnam Campus; and Dr. Nurzal Effiyana Binti Ghazali. Facilitators from BatStateU included Dr. Alvin S. Alon, Head of the Digital Transformation Center, Dr. Francis Jesmar Montalbo, Faculty of the College of Informatics and Computing Sciences, Dr. Donnalyn C. Cabaces, Chairperson of the

Department of Mechanical Engineering, and Engr. John Kevin M. De Castro, Associate Dean for Program Development and Quality Assurance at the College of Engineering. Representatives from Cambodia, Laos PDR, Thailand, and Vietnam also participated, adding to the diverse range of perspectives and expertise shared at the conference.

Tackling artificial intelligence, automation and control, biochemistry and molecular biology, data science and analytics, electronics, energy and environment, engineering education, food and agriculture, information and communication technology, instrumentation and control, marine science, materials science, nanotechnology, science and technology education, and technopreneurship, over 47 papers were accepted and presented during the parallel sessions.

Batangas State University is the Philippines' National Engineering University by virtue of Republic Act No. 11694. Renowned for its engineering education excellence, this Level-IV state university has produced over 180 engineering board topnotchers, cementing its position as the country's largest engineering university. Notably, BatStateU is the first and, thus far, the only state university in the Philippines with engineering and computing programs accredited by ABET's Engineering Accreditation Commission and Computing Accreditation Commission. Batangas State University (BatStateU) has earned three stars in the QS Stars Rating. Furthermore, it was ranked as the 351<sup>st</sup> World's Most Sustainable University in the 2022 UI GreenMetric World University Rankings and is also recognized as the 90<sup>th</sup> most innovative University globally in the prestigious World University Rankings for Innovation (WURI) 2023 and secured a notable ranking between 601<sup>st</sup>-800<sup>th</sup> among 1,591 universities from 112 countries/regions in the THE Impact Rankings 2023.

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### 1ST NATIONAL WORKSHOP ON UI GREENMETRIC WORLD UNIVERSITY RANKINGS FOR PHILIPPINE UNIVERSITIES

Join us in shaping a sustainable future! 🌍

Batangas State University, The National Engineering University, is honored to be the National Coordinator for the UI GreenMetric World University Rankings Network (UIGWURN). For the first time, we're excited to invite you to the National Workshop on **UI GreenMetric World University Rankings** for Universities in the Philippines 2023.

📅 Save the Date: October 26, 2023

🕒 1:00 PM - 4:00 PM

🖥️ Zoom Video Conferencing

Discover the power of sustainability, learn best practices from fellow Philippine universities, and work together to create a greener future!

📌 Here's what awaits you:

- Insights into UIGWURN's mission
- Sharing of sustainability best practices
- Guidance on completing UI GreenMetric questionnaires
- Building partnerships for a sustainable tomorrow

Have queries? Connect here:

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*Together, we can make a difference!*

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