



## **Connecting Expertise: Collaborative Innovations in Materials and Energy Science**

**Venue:** Faculty of Science, Mahidol University, Phayathai Campus

**Date:** March 17, 2025

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**8:30–9:00** – Registration and Coffee

**9:00–9:10** – Welcome Address by Dean of the Faculty of Science

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### **SESSION 1: Advances in Materials Research**

**9:15–9:35** – **Reiko Oda (Tohoku University)**

“Origin of Chirality for Mesoscopic and Hierarchical « Chiral » Objects and their Transmission Mechanisms”

**9:35–9:55** – **Haw Yang (Princeton University)**

“Niche Approaches to Understanding Dynamics at Material Interfaces”

**9:55–10:15** – **Jih-Wei Chu (National Yang Ming Chiao Tung University)**

“Molecular Simulation for the Engineering of Energy Materials”

**10:15–10:30** – Coffee Break & Networking

### **SESSION 2: Innovations in Energy Materials**

**10:30–10:50** – **Hiroto Nishihara (Tohoku University)**

“Three-dimensional Graphene for Energy Storage”

**10:50–11:10** – **Jyh-Tsung Lee (National Sun Yat-sen University)**

“Electrolyte Additives for Enhanced Performance in Lithium-ion Batteries”

**11:10–11:30** – **Teera Chantarojsiri (Mahidol University)**

“Homogeneous Electrocatalysts for Small Molecule Activation”

**11:30–11:50** – **Ho-Hsiu Chou (National Tsing Hua University)**

“Design and Synthesis of Semiconducting Polymers for Solar-driven Hydrogen Evolution from Water”

**11:50–13:00** – Lunch Break

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### **SESSION 3: Innovations in Materials & Characterizations**

**13:00–13:20** – **Vlad Badilita (Karlsruhe Institute of Technology)**

“CORREL - the Magnetic Resonance and X-ray Imaging Correlative Characterisation Laboratory at KIT”

**13:20–13:40** – **Siraprapha Deebansok (Tohoku University)**

“Real Time Electrochemical Observation and Data Analysis”

**13:40–14:00** – **Wijak Yospanya (Tohoku University)**

“Exploring the Potential of Proteins Beyond their Native Environments: Toward Versatile and Sustainable Advanced Materials”

**14:00–14:20** – **Tanant Waritanant (Mahidol University)**

“Submicron Fabrication Investigation of Dental Polymer”

**14:20–14:45** – Coffee Break & Networking

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**14:45–15:00** – Introduction to MUSC by Deputy Dean for Research and Innovation

**15:00–16:00** – Tour of research facilities

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