

Thursday, 24th April 2025

Time	Activity at 1 st Floor Guizhou Hotel
13.00-18.30	<i>Registration</i>

Friday, 25th April 2025

Time	Activity at Conference hall, BUCT
08:00-09:00	<i>Registration</i>
09:00-09:30	<i>Welcome and Conference Opening/ Group photo</i>
09:30-10:15	Keynote Presentation I <i>by</i> <i>Prof. Dr. Won-Chun Oh</i> <i>(Hanseu University, Korea)</i> <i>"Carbon Materials for Energy Storage"</i>
10:15-10:30	<i>Coffee Break</i>
10:30-11:15	Keynote Presentation II <i>By</i> <i>Prof. Dr. Pengfei Cao</i> <i>(Beijing University of Chemical Technology, China)</i> <i>"Dynamic Crosslinked Elastomers with High Toughness and Tunable Recyclability"</i>
11:15-12:00	Keynote Presentation III <i>by</i> <i>Prof. Dr. Wisanu Pecharapa</i> <i>(King Mongkut's Institute of Technology Ladkrabang, Thailand)</i> <i>"Ternary Metal Oxide Photocatalysts Synthesized via Sonochemical Process"</i>
12:00-13:30	<i>Lunch</i>

Friday, 25th April 2025 (P.1)

Time	Meeting room 1	Meeting room 2	Meeting room 3	Meeting room 4
13:30-13:45	Invited I (INV-01): Assoc. Prof. Dr. Pakorn Opaprakasit <i>"Functional Materials for Rapid Detection and Effective Removal of Orthophosphates"</i>	IC-FAE-01: Jiraporn Jongyingcharoen <i>"Effect of Microwave Power in Two-Stage Microwave-Vacuum and Hot Air Drying of Carrot Chips"</i>	Invited II (INV-02): Assoc. Prof. Dr. Armando T. Quitain <i>"Microwave Carbocatalysis for Biomass Valorization"</i>	IC-TCE-01: Amnach Khawne <i>"Event-Based Surveillance Platform from CCTV Using Computer Vision"</i>
13:45-14:00		IC-FAE-02: Keerati Kirasamutranon <i>"Effects of Twisted Tape on Oxygen Transfer Performance in Ejector Aeration"</i>		IC-TCE-02: Weera Pengchan <i>"Performance Monitoring and Control System for Optimizing Solar Panel Efficiency"</i>
14:00-14:15	ST-SSM-01: Xiaoxing Xing <i>"Microfluidic Devices Made of Conducting Polymer for the Manipulation and Analysis of Tumor Cells"</i>	ST-BHS-03: Yuan Gao <i>"Cell-selective Supramolecular Self-assembly for Bioorthogonal Prodrugs"</i>	IC-FAE-03: Yaneeporn Patcharavorachot <i>"Process Optimization of Waste Tires and Water Hyacinths Co-Gasification for Biofuel Production"</i>	IC-TCE-03: Fei Ma <i>"Remote Sensing Meets Salt Lake Industrial Manufacturing"</i>
14:15-14:30	ST-SSM-02: Supawee Inlumphon <i>"Laser-Induced Graphene Electrode for High-Performance Electrochemical Sensing: Optimization of Laser Power"</i>	ST-BHS-05: Feng Tian <i>"Electrospun Fibrous Scaffolds with Spatiotemporal Cues for Sequential"</i>	IC-MEN-01: Pinthunicha Pongsena <i>"Utilization of Bottom Ash from Power Plants as Backfill Material for Surface Coal Mines with Enhanced Carbon Dioxide Capture and Storage Capabilities"</i>	IC-FAE-04: Uma Seeboonruang <i>"Community-Driven Real-Time Salinity Intrusion Early Warning System: a Hybrid Monitoring Approach for Sustainable Freshwater Management"</i>
14:30-14:45	ST-POM-01: Jiayao Chen <i>"Recycling and Processing of Polyurethane Elastomers"</i>	IC-FAE-07: Ngo Van Tai <i>"Rice Flour Modification for Health and Sustainable Food Industry: Utilization of Starch-Polyphenols Complex Mechanism"</i>	ST-BHS-04: Shun Duan <i>"Natural Macromolecule-Based Multifunctional Antibacterial Coatings"</i>	IC-IEM-01: Chumpol Yuangyai <i>"Utilizing Social Media Information to Identify Risk Factors for Ambulance Reconfiguration Problem"</i>
14:45-15:00	IC-MEN-02: Ruixue Wang <i>"Functional Nanomaterials Deposition by Low Temperature Plasma"</i>		IC-FAE-05: Ninlawan Chaitanoo <i>"Effect of Pre-Treatment Methods on Corn Cob Cellulose Extraction and their Efficiency as a Fruit Coating Agent"</i>	IC-FAE-06: Samak Rakmae <i>"Process Evaluation of Mango Peel Crude Extraction: Bottlenecks and Scale-Up Design"</i>
15:00-15:15	ST-AFM-01: Ji Liu <i>"High-Fidelity 3D Printing of Conducting Polymer Hydrogels"</i>		ST-CBM-01: Penpicha Poonpat <i>"Reduced Graphene Oxide from Sugarcane Bagasse Using Pomegranate Juice as a Reducing Agent"</i>	
15:15-15:30	Coffee break			

Friday, 25th April 2025 (P.2)

Time	Meeting room 1	Meeting room 2	Meeting room 3	Meeting room 4
15:30-15:45	ST-POM-02: Zhen Zhang <i>"Chemically Engineered Sustainable Polyhydroxyalkanoates with Superior Material Performance"</i>	ST-BHS-06: Jiajia Xue <i>"Tissue Regeneration Scaffolds based on Biomedical Polymers"</i>		Invited III (INV-03): Dr. Adisorn Tuantranont <i>"Graphene Technology for the Next Generation Energy Storage Devices"</i>
15:45-16:00	ST-POM-03: Orathai Kangkamanee <i>"Turning Post-Consumer Multi-Layer Bags into Metal-Organic Framework"</i>	ST-POM-04: Pattara Somnuake <i>"Microwave-Assisted Alcoholysis Product of Polylactide (PLA) and Its Use in Enhancing Mechanical Properties, Hydrophilicity, and Cell Compatibility of PLA Nanofibers for Tissue Engineering Applications"</i>		
16:00-16:15	ST-AFM-02: Qingyang Zhou <i>"Surface Modification Strategy for Prolonging the Lifetime of Triboelectric Nanogenerators Enhanced by Corona Discharge"</i>	ST-POM-05: Wikoramet Teeka <i>"Acid Extraction of Black Liquor Waste from Paper Industry for Use as Additives in Biopolymer Composites"</i>		ST-EEM-01: Kanisorn Klangvijit <i>"Tailoring Electrochemical Performance of Hemp-Derived Activated Carbon through Compositing with Manganese Oxide via Hydrothermal Synthesis"</i>
16:15-16:30	IC-MEN-03: Jingyao Sun <i>"Performance Enhancement of Polymer Composites Using Dynamic Force Fields"</i>	ST-BHS-07: Nana Zhao <i>"Hybrids of Polysaccharides and Inorganic Nanoparticles: from Morphological Design to Diverse Biomedical Applications"</i>		ST-EEM-02: Khemjiranee Bowornthommatadsana <i>"Optimization of Hemp-Derived Activated Carbon for High-Performance Supercapacitors: Effect of Biochar-to-NaOH Ratio on Chemical Activation"</i>
16:30-16:45	ST-POM-06: Hongyi Gu <i>"Mechanically Robust Polyvalerolactone Thermosets with Dual Recyclability"</i>	ST-NAM-01: Natchayaporn Sakulpeeb <i>"Influence of Annealing Temperature on the Green Synthesis of Zinc Oxide Nanoparticles (ZnO-NPs) via Mango Peel Extraction"</i>		ST-EEM-03: Caifeng Huang <i>"Study on Structure-Activity Relationship and Preparation Method of Calcium-Based Thermochemical Energy Storage Materials"</i>
16:45-17:00	ST-POM-07: Xin-Yue Hao <i>"Semi-Interpenetrating Polyurethane Network with Fatigue Elimination and Upcycled Mechanical Performance"</i>			IC-MEN-04: Xuan Qin <i>"Novel Nanocomposites for New Energy Automobile"</i>
17:00-18:30	Poster Session			
18:30-20:30	Conference Banquet			

Saturday, 26th April 2025

Time	Meeting room 1	Meeting room 2	Meeting room 3	Meeting room 4
09:30-09:45	Invited IV (INV-04): Prof. Dr. Sang Yong Nam <i>"Development of Polymeric Membranes for Producing Green Hydrogen with Various Water Electrolysis"</i>	IC-MME-O1: Qihang Li <i>"Liquid-Solid Coupling Modeling Analysis and Vibration Suppression Methods for Centrifuge"</i>		IC-RAE-O1: Poom Konghuayrob <i>"Optimization 3D Point Cloud Mapping for Computationally Efficient Robot Localization"</i>
09:45-10:00		IC-MME-O2: Watcharawut Danphiphattrakoon <i>"Sustainable Infrastructure Development at Lat Krabang Airport Rail Link Station"</i>		IC-RAE-O2: Chao Bi <i>"Development of Flexible Assembly Method and Supporting Experimental Platform for Gearbox based on Visual Technology"</i>
10:00-10:15	Invited V (INV-05): Assoc. Prof. Dr. Takashi Ikuno <i>"Optoelectronic Synapses based on Semiconductor Nanostructures towards Physical Reservoir Computing"</i>	IC-MME-O3: Vacharee Svamivastu <i>"Prasat Mueang Tam: The Interpretation of the Geometrical Relationship between the Technical Treatises and the Structural Planning"</i>		IC-TCE-O4: Xin Ma <i>"Health Monitoring of Industrial Systems Based on Multivariate Statistics and Deep Learning"</i>
10:15-10:30		IC-MME-O4: Uba Sirikaew <i>"The Application of Software for Topographic Map Survey: a Case Study of the Research and Technology Transfer Center (RTTC) of King Mongkut's Institute of Technology Ladkrabang, Suphanburi Province, Thailand"</i>		IC-MME-O5: Akapot Tantrapiwat <i>"Detection and Restoration of Finned Coil Damage Using AI with Synthetic Dataset"</i>
10:30-10:45	ST-EEM-O4: Zhengping Zhang <i>"Phthalocyanine Based Materials for Electrocatalysis"</i>	IC-MME-O6: Nang Horm <i>"Comparison of the Pull-out Strength of the Post-installed Hybrid Expansion Anchor Bolts with Pure Mechanical Characteristic Strength"</i>		
10:45-11:00	IC-MEN-O5: Dazi Li <i>"Graph Based Deep Learning Methods in Molecular and Material Sciences"</i>	ST-BHS-O1: Yiyang Lin <i>"Building Life-Like Systems with Phase-Separated Droplets"</i>		
11:00-11:15	ST-COM-O1: Komsilp Kotmool <i>"Novel Hard and Unusual Superconducting Monoclinic Phase of FeB₂C₂: an ab Initio Evolutionary Study"</i>	ST-BHS-O2: Jimin Guo <i>"Armored Cell: Cell in Shell"</i>		

Saturday, 26th April 2025 (P.1)

Time	Meeting room 1	Meeting room 2	Meeting room 3	Meeting room 4
11:15-11:30	ST-OEM-01: Mengjiao Cheng <i>"Precise Supramolecular Assembly for Mass Transfer of Microelectronics"</i>			
11.45-12.15	<i>Closing Ceremony and Award</i>			
12.15-13.45	<i>Lunch</i>			
13.45-20.00	<i>Excursion</i>			