

**Thailand-Taiwan Bilateral Symposium on Science, Agriculture and Technology**

**臺泰雙邊合作成果發表會暨研討會**

Date: 18th Nov. 2021

Place: Room101, Room103, Electrical Engineering & Computer Science Building, NCHU

Jointly Organized by,

*i*- Center for Advanced Science and Technology, NCHU (Taiwan)

Innovation and Development Center of Sustainable Agriculture, National Chung Hsing University (Taiwan)

and

Faculty of Science at Sriracha, Kasetsart University (Thailand)

Faculty of Agriculture, Kasetsart University (Thailand)

Faculty of Engineering, Kasetsart University (Thailand)

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| **Time**  **(TH)** | **Time**  **(TW)** | **18th Nov.** | |
| 08:00-08:10 | 09:00-09:10 | **Registration**  **Location: Room 101** | |
| 08:10-08:30 | 09:10-09:30 | **Opening Ceremony**  **Chongrak Wachrinrat Ph.D.**  President, KU  **Chang-Hsien Yang Ph.D.**  Vice President, NCHU | |
| 08:30-09:00 | 09:30-10:00 | **Keynote Speech 1**  **Assist. Prof. Pattarawadee Sumthong Nakmee**  Dean of Faculty of Science at Sriracha, KU  **TOPIC:** Phytochemical Constituents and Anti-cancer Activities from Peltophorum Dasyrachis and Dialium Cochinchinense Bark Extracts for Traditional Jellyfish Pickle. | |
| 09:00-09:30 | 10:00-10:30 | **Keynote Speech 2**  **Prof. Hsin-I Chiang**  Department of Animal Science, NCHU  **TOPIC:** Nutrition validation of straws from mutant brittle rice varieties as feed roughages in Holstein cows | |
|  |  | **Workshop 1: Agriculture**  **Chair: Prof. Hsin-I Chiang (江信毅)**  **Location: Room 101** | **Workshop 2: Engineering**  **Chair: Prof. Jau Huai Lu(盧昭暉)**  **Location: Room 103** |
| 09:30-10:00 | 10:30-11:00 | **P-01**  **Dr. Chalathon Choocharoen**  Agricultural Extension and Communication Department, KU  **TOPIC:** Social network analysis for agricultural trading: An investigation of the actors along agricultural commodities supply chain between Taipei and Bangkok. | **P-08**  **Assoc. Prof. Tongsai Jamnongkan**  Department of fundamental Science and Physical Education, KU  **TOPIC:** Development the antimicrobial of ZnO electrospun fiber for 3D printing application. |
| 10:00-10:20 | 11:00-11:20 | **Tea Break** | |
| 10:20-10:50 | 11:20-11:50 | **P-02**  **Prof. Tzong-Ru Lee**  Marketing Department, NCHU  **TOPIC:** Understanding consumer purchasing decision on choosing tea shop in Taiwan and Thailand before and during COVID-19 pandemic. | **P-09**  **Assoc. Prof. Penjit Srinophakun**  Chemical Engineering Department, KU  **TOPIC:** Life Cycle Assessment (LCA) and Cost Estimation Analysis of PVA and Lignin Mulching film. |
| 10:50-11:20 | 11:50-12:20 | **P-03**  **Assoc. Prof. Penjit Srinophakun**  Department of Chemical Engineering, KU  **TOPIC:** Active Compound Production from Large Scale Koji Fermentation. | **P-10**  **Prof. Hui-Min Wang**  Graduate Institute of Biomedical Engineering, NCHU  **TOPIC:** Antioxidant and anticancer effects of Cordyceps sinensis extracts on metastatic melanoma. |
| 11:20-12:00 | 12:20-13:00 | **Lunch** | |
|  |  | **Workshop 3: Agriculture**  **Chair: Prof. Yao-Tung Lin (林耀東)**  **Location: Room 101** | **Workshop 4: Engineering**  **Chair: Prof. Hui-Min Wang (王惠民) Location: Room 103** |
| 12:00-12:30 | 13:00-13:30 | **P-04**  **Assist. Prof. Kok-Boom Neoh**  Department of Entomology, NCHU  **TOPIC:** Effects of piperonyl butoxide synergism and cuticular thickening on the contact irritancy response of field Aedes aegypti (Diptera: Culicidae) to deltamethrin. | **P-11**  **Prof. Heng-Jui Liu**  Department of Materials Science and Engineering, NCHU  **TOPIC:** New Opportunities toward efficient water splitting - Perovskite oxide catalysts. |
| 12:30-1300 | 13:30-14:00 | **P-05**  **Prof. Theeraphap Chareonviriyaphap**  Department of Entomology, KU  **TOPIC:** Exploring a novel method in dengue control. | **P-12**  **Prof. Ratiporn Munprom**  Department of Materials Engineering, KU  **TOPIC:** Fabrication and characterization of nanostructure WO3 photoanode for photoelectrochemical water splitting. |
| 13:00-13:30 | 14:00-14:30 | **P-06**  **Kesinee Iamsaard**  Department of Soil and Environmental Sciences, NCHU  **TOPIC:** Agri-Biodegradable Mulch Films Driven from Agricultural Wastes on Sustainable Agriculture System. | **P-13**  **Prof. Kun-Yi Lin**  Environmental Engineering Department, NCHU  **TOPIC:** Ultrafine cobalt nanoparticle-embedded leaf-like hollow N-doped carbon as an enhanced catalyst for activating monopersulfate to degrade phenol. |
| 13:30-14:00 | 14:30-15:00 | **P-07**  **Dr. K.Teepalak Rangubhet**  Department of Animal Science, KU  **TOPIC:** Evaluation of nutrient utilization and rumen digestibility of Taiwan brittle rice straw. | **P-14**  **Assoc. Prof. Sanya irivithayapakorn**  Environmental Engineering Department, KU  **TOPIC:** Efficiency and Selectivity of Photocatalytic Nitrate Reduction Process under Different Initial Nitrate Concentrations and Catalyst Dosages. |
| 14:00-14:20 | 15:00-15:20 | **Tea Break** | |
|  |  | **Workshop 5: Agriculture**  **Chair: Prof. Kok-Boom Neoh(梁國汶)**  **Location: Room 101** | **Workshop 6: Engineering**  **Chair: Prof. Jeng-Liang Han (韓政良)**  **Location: Room 103** |
| 14:20-14:50 | 15:20-15:50 | **I-01**  **Assoc. Prof. Soontree Khuntong**  Department of Natural Resources and Environment, KU  **TOPIC:** Lipase digestion by indigenous bacteria for used frying oil-based biodiesel synthesis | **II-01**  **Assist. Prof. P.Pungboon Pansila**,  Head of Department of Basic Science and Physical Education, KU  **TOPIC:** Low temperature atomic layer deposition of oxide and nitride thin films: computation and experimentation. |
| 14:50-15:20 | 15:50-16:20 | **I-02**  **Assist. Prof. Saroch Kaewmanee**  Department of Animal Science, KU  **TOPIC:** Innovative Protein Sources: Possibilities for Future Sustainable Agriculture and Related Purposes | **II-02**  **Prof. Attasak Jaree**  Department of Chemical Engineering, KU  **TOPIC:** Production of 5-Hydroxymethyl Furfural from Fructose and Glucose in a Fixed-Bed Reactor |
| 15:20-15:40 | 16:20-16:40 | **I-03**  **Assoc. Prof. Jamroen Thiengtham**  Department of Animal Science, KU  **TOPIC:** Laying hens in enriched cages: Improving their welfare status | **II-03**  **Assist. Prof. Gasidit Panomsuwan**  Department of Materials Engineering, KU  **TOPIC:** Plasma-Assisted Synthesis of Nitrogen-Doped Carbons as Electrocatalysts for Oxygen |
| 15:40-16:10 | 16:40-17:10 | **I-04**  **Dr. Nittaya Chookoh**  Department of Horticulture, KU  **TOPIC:** Effect of different forcing duration at 20°C on flowering acceleration in tolumnia orchids  Reduction Reaction | **II-04**  **Associate. Prof. Pongsak Noophan**  Department of Environmental Engineering, KU  **TOPIC:** Effect of COD:N Ratio on Biological Nitrogen Removal using Full-scale Step-feed in Municipal Wastewater Treatment Plants (Case Study: Taiwan and Bangkok) |
| 16:10-16:20 | 17:10-17:20 | **Concluding Remarks**  Jenn-Ming SONG Ph.D.  Dean of the Office of Research and Development, NCHU | |