JSCENS7: THE 7TH JOINT SYMPOSIUM ON CHEMISTRY, ENVIRONMENT, NATURAL SCIENCES AND TECHNOLOGIES

PROGRAM

Friday, October 25th

**07:30-08:30 Symposium Registration**
LOCATION: A4 Hall

**08:30-09:00 Session 1: Welcome Remark**

- **08:30 Minh Phuong Le**
  Welcome message from the Vice Rector of HCMUT
- **08:37 Hsu Hui Huang**
  Opening Speech from Taiwanese Representative
- **08:44 Ikuo Fujii**
  Opening speech from Osaka Prefecture University
- **08:51 San-Lang Wang**
  Opening speech from Tamkang University

**09:00-10:00 Session 2: Keynote Presentations**
LOCATION: A4 Hall

- **09:00 Le Van Trung**
  Impacts of Land Subsidence and Sea-Level Rise in the Ho Chi Minh City, Vietnam
- **09:20 Ikuo Fujii**
  Post-Antibody Drugs: Generation of A Novel Class of Drug Modalities Based on Molecular-Targeting Helix-Loop-Helix (HLH) Peptides
- **09:40 San-Lang Wang, Chien Thang Doan, Van Bon Nguyen and Anh Dzung Nguyen**
  Reclamation of Fishery Processing Waste

**10:00-10:30 Coffee Break and Group Photo**
LOCATION: A4 Lobby

**10:30-12:30 Session 3A: Environmental Technology**
CHAIRS: Tan Phong Nguyen and Ervin Nurhayati
LOCATION: A4 Hall

- **10:30 Nguyen Nhat Huy, Lam Pham Thanh Hien, Tran Thi Thu, Nguyen Hong Son and Vo Thi Thanh Thuy**
  Preparation of Titanate Nanotubes for Photocatalytic Removal of HCHO Under Indoor Condition
- **10:45 Dat Duc Nguyen Duc, Khanh An Huynh, Tan Phong Nguyen and Bich Hanh Dang Vu**
  Imidacloprid Decomposition in Wastewater by Electro Fenton Process with Fe₃O₄/Mn₃O₄ as Catalyst
- **11:00 Dao Minh Trung and Vo Le Phu**
  Removal of Arsenic from Contaminated Groundwater Using Nano Cobalt-Ferrous Oxide (CoFe₂O₄)
- **11:15 Nguyen Thai Anh, Nguyen Nhat Huy, Nguyen Vinh Tien, Tran Thi Thanh Hieu and Le Thi Quyen Nhu**
  Synthesis of Dried Eggshell Powder–Chitosan Gel Material and Its Application for Batch and Column Adsorption of Reactive Dyes
- **11:30 Xuan Huyen Dang Vu, Bich Hanh Dang Vu, Huu Doan and Tan Phong Nguyen**
Secondary Treated Wastewater of Latex Processing – Reusing for Irrigation or Treatment by Membrane Filtration

11:45 Arseto Yekti Bagastyo, Dian Novitasari and Ervin Nurhayati
Impact of Sulfate Ion Addition on Electrochemical Oxidation of Anaerobically Treated Landfill Leachate Using Boron-Doped Diamond Anode

12:00 Ervin Nurhayati, Arseto Yekti Bagastyo and Deviani Dwi Hartatik
The Enhancement of Biodegradability Index of Mature Landfill Leachate by Electrochemical Oxidation Process Using DSA and BDD Anode

12:15 Giang Lam Van, Phuong Cao Dieu and Thanh Ho Phuoc
Study the Existing of the Heavy Metallic Elements in the Vietnam Joss-Paper Materials and Effects of Ash Applied on Land to Germination Rate

10:30-12:30 Session 3B: Environmental Management
CHAIRS: Phu Le Vo and Idda Warmadewanthi
LOCATION: 202A4

10:30 Hang Vo Thanh and Vy Nguyen Thi Phuong
The Situation of Solar Energy Using in Household Scale in Phu Nhuan District, Ho Chi Minh City: Opportunities and Challenges

10:45 Aulia Ulfah Farahdiba, Aditya Prana Iswara and Rachmat Boedisantoso
Global Warming Potential Assessment from Offshore Platform Facility Using Life Cycle Analysis

11:00 Kei Wakimura and Mikio Kato
A Preliminary Release of Japanese Aquatic Macroinvertebrate References (J-Amir) on Internet Web

11:15 Duc Tran and Kyle Strom
Floc Sizes and Resuspension Rates from Fresh Deposits: Influence of Suspended Sediment Concentration, Turbulence and Deposition Time

11:30 Lan Nguyen, Loc Ho, Chung Nguyen Kim, Phu Vo and Trung Le
Understanding the Community’S Prioritization for Benefits of Sustainable Urban Drainage System: A Case Study in Nhieu Loc – Thi Nghe Sub-Basin, Ho Chi Minh City

11:45 Tho Minh Tran, Hiep Cong Duc Nguyen and Duong Hai Thi Ninh

12:00 Quang Phat Hong, Duc Cong Hiep Nguyen and Thi Hai Duong, Ninh
Water Level Forecasting for Dau Tieng Reservoir Using Artificial Neural Network

12:30-13:30 Lunch Break
LOCATION: B4 Food Court (3rd floor)

13:30 Nguyen Cong Nguyen, Nguyen Thi Hau, Shiao-Shing Chen, Quang Huy Le and Cong Chinh Duong
Innovative Sponge-Based Moving Bed – Anaerobic Osmotic Membrane Bioreactor/Membrane Distilation (SMB-AnOSMBR/MD) Hybrid System for Municipal Wastewater Treatment

13:45 Adinda Larasati and Idda Warmadewanthi
The Effect Presence of Silica Ions on Phosphate and Ammonium Recovery from Fertilizer Wastewater

14:00 *Thi Hang Ho*
Effect of Nanobubble Water on Anaerobic Methane Fermentation of Lignin

14:15 *Min-Yeh Tsai*
Computational Studies on Protein-DNA Interactions of a Nucleoid-Associated Protein Fis

14:30 *Chersak Maneeruttanarungroj*
Hydrogen Production from Green Algae Tetraspora sp. CU2551 and Chlorella sp. KLSc59

14:45 *Chokchai Kittiwongwattana*
Utilization of Spirodela Polyrhiza for Ethanol Production

15:00 *Ming-Kai Chern*
Yeast Two-Hybrid Screening of EBNA2 Interacting Proteins in the Human Lymphocyte cDNA Library

13:30-15:15 Session 4B: Natural Sciences and Technologies
**CHAIRS:** Jen-Chieh Hsieh and Anh Dzung Nguyen
**LOCATION:** 202A4

13:30 *Anh Tuan Vo, Quang Huy Huynh, Huynh Thuy Ngan Nguyen* and *Le Nhat Vu Nguyen*
Automatic Meter Reading (AMR) Application in High-Rise Building Construction

13:45 *Chih-Hsin Chen*
Portable Liquid Crystal-Based Sensor for Nitrite Detection

14:00 *Nguyen Van Bon, Nguyen Thi Hanh, Doan Chien Thang, Tran Thi Ngoc, Do Van Chung, Nguyen Anh Dzung* and *Wang San-Lang*
Utilization of Squid Pens for Cost-Effective Production of anti-Nematodes Agents via Microbial Fermentation

14:15 *Jen-Chieh Hsieh*
Transition-Metal-Catalyzed Addition Reaction of C-N Multiple Bonds

14:30 *Anh Dzung Nguyen* and *San Lang Wang*
Preparation of the Micronutrient Nanofertilizers Based on Chitosan Starch Nanocomposite, and Their Efficacy on Photosynthesis, Growth and Productivity of Robusta Coffee in the Field

14:45 *Po-Shen Pan*
Synthesis of Boron-Containing Isocyanides and Their Synthetic Applications

15:00 *Minh-Trung Nguyen, Ming-Kai Chern* and *Chung-Hung Hsieh*
Potential Boron Delivery Agents for Boron Neutron Capture Therapy Application: Sodium Borocaptate (BSH) Conjugated Folic Acid/Biotin via Thiol-Maleimide “Click” Reaction

15:15-16:30 Session 5: Poster Presentations
**CHAIRS:** Nhat Huy Nguyen and Hang Vo Thanh
**LOCATION:** A4 Lobby

15:15 *Hang Vo Thanh, Linh Nguyen Thi, Tran Dang Thi Uyen* and *Thu Huynh Anh (P.4)*
The Correlation Between Dengue Fever and Community Health by Climate Change in Nha Be District, Ho Chi Minh City, Vietnam
Kim Phuong Dinh, Thanh Nha Huynh and Duc Tri Nguyen (P.6)  
GIS Application for Managing Urban Trees of District 11, Ho Chi Minh City

Minh Nhat Phan, Thuy Duong Hoang Le, Phuong Hang Nguyen Thi, Van Manh Ngo, Ngoc Tien Trinh Phu and Tan Phong Nguyen (P.8)  
Ammonium Removal of Slaughter Wastewater by Uasb Technology Combined with Egsb Using Anammox and Pva Gel

Chien Thang Doan, Thi Ngoc Tran, Van Bon Nguyen, Anh Dzung Nguyen and San-Lang Wang (P.11)  
Production of Chitosanases and Chitooligosaccharides from Liquid Fermentation Process of Chitinous Fishery Byproducts via Paenibacillus sp.

Nguyen Cong Nguyen, Thi Cuc Nguyen, Thi Bao Dung Nguyen, Ngoc Chung Le, Thi Tinh Tran and Hung Pham (P.15)  
Exploration of Novel Draw Solution in Hybrid Forward Osmosis – Nanofiltration (FO/NF) System for Sludge Dewatering

Thi Ngoc Tran, Chien Thang Doan, Van Bon Nguyen, Anh Dzung Nguyen and San-Lang Wang (P.16)  
Conversion of Wheat Bran to Xylanases via Streptomyces Thermocarboxyduis

Chompoonut Chaiyaraksak, Kuncharida Sangdeau, Siraprapa Thongkum and Supaluk Tongpeng (P.20)  
Treatment of Petrol Station Wastewater by Persulfate and Ferrous Ion

Co Nguyen-Tang and Van Tran-Thi (P.21)  
Change of Vegetation Cover and Its Relationship with Environmental Factors, a Case Study on Ly Son Island

Anh Tuan Vo, Quang Huy Huynh, Thanh Cuong Ho, Huynh Thuy Ngan Nguyen, Nguyen Hai Tran and Le Nhat Vu Nguyen (P.25)  
Using Iron Alum in Surface Water Treatment

Hsin-Yi Tsai (P.26)  
Organic Sensitizers Using Indolium as Acceptor for Dye-Sensitized Solar Cells

Jhih-Wei Huang (P.27)  
Enhancing Signal Intensity and Precision of Liquid Crystal-Based Sensor by Using Fine Grids Made by Photolithography of Photoresist

Trong-Ming Don, Wen-Shan Yang and Tung-Wen Cheng (P.32)  
Preparation of Oil-Based Stable Sliver Dispersions for Printable Electronics

Trong-Ming Don, Sheng-Huang Wu, Ting-Shu Li and Yi-Hsun Liu (P.33)  
Structure and Toughness Improvement of Poly (lactic acid) Blends

Giang Lam Van and Thanh Ho Phuoc (P.36)  
Study on Enhancing the COD Removing Utilizing Cationic Starch Replace the PAC in Coagulation-Floculation Process for Fishery Processing Wastewater

Jing Jie Xu (P.40)  
Phenyl-Carbazole Based Bilayer Interface Exciplex for Green Organic Light Emitting Diode

Anh Tuan Vo, Canh Duong Hoang, Le Nhat Vu Nguyen, Huynh Thuy Ngan Nguyen and Lan Huong Nguyen (P.39)  
Research on Application of Geophysical Penetrating Radar in Underground Infrastructure Locating
15:15 Bo-Yi Lin (P.41)
Thienoisindigo-Based Dopant-Free Hole Transporting Material for Efficient P–I–N Perovskite Solar Cells with the Grain Size in Micrometer Scale

15:15 I-Hong Wen, Chien Thang Doan, Thi Ngoc Tran, San-Lang Wang, Van Bon Nguyen and Anh Dzung Nguyen (P.42)
Conversion of Shrimp Heads Waste for Production of a Thermotolerant, Detergent-Stable, Alkaline Protease by Paenibacillus sp.

15:15 Hsiao-Ting Hsieh, Thi Ngoc Tran, Chien Thang Doan and San-Lang Wang (P.47)
Pectinase Producing and Purification from Microbes Isolated from Soil

15:15 Chien-Lin Chen, Chien Thang Doan, Thi Ngoc Tran and San-Lang Wang (P.51)
Conversion of Shrimp Head Powder to Proteases and Congo Red Biosorbent via Paenibacillus Mucilaginosus

15:15 Dao Minh Trung, Nguyen Xuan Du and Vo Le Phu (P.53)
Making Biological Precipitation and Coagulation Material Extracted from Tamarind Seed and Investigating the Applicability of Nickel (Ni²⁺) Removal

15:15 Dao Minh Trung, Nguyen Xuan Du and Vo Le Phu (P.54)
Making Denatured Biochar from Cassia Fistula L. Seed and Its Application for Removing Methylene Blue of Industrial Wastewater

15:15 Mert Topcuoğlu (P.55)
Literature Research of Inverse Vulcanized Polymers and Their Dye and Mercury Capturing Applications

15:15 Toyoki Imada, Masanobu Chiku, Eiji Higuchi and Hiroshi Inoue (P.58)
Electrocatalytic Regeneration of Organic Hydride as Hydrogen Carrier with Rh-Modified Pt Nanoparticle-Loaded Carbon Catalysts

15:15 Kiko Hasegawa, Nobuyuki Takenaka and Takaya Satoh (P.59)
Role of the GTP-Binding Protein Rac1 in Insulin-Stimulated Glucose Uptake in Adipocytes

15:15 Kien Nguyen, Masanobu Chiku, Eiji Higuchi and Hiroshi Inoue (P.60)
Electrochemical Glycerol Oxidation Reaction with Rhodium Electrode

15:15 Takafumi Tsuno, Eisuke Ohta, Soichiro Koga, Shuichi Tani, Takuya Ogaki, Yasunori Matsui and Hiroshi Ikeda (P.61)
Induction of Helical Chirality of Foldamer Possessing Triethylene Glycol Chains

15:15 Van Huy Ta (P.63)
Protect the environment and save water resources by methods of sedimentation, filtration, circulation and reuse of wastewater for car wash stations

15:15 Nhat Huy Nguyen and Khuynh An Huynh (P.71)
Collection and Characterization of Natural Organic Matter in Saigon River

16:30-17:00 Closing Remark
LOCATION: A4 Hall
18:00-20:00 Dinner Banquet