

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 Dzong 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 $\text{Fe}_3\text{O}_4/\text{Mn}_3\text{O}_4$ as Catalyst

11:00 [Dao Minh Trung](#) and [Vo Le Phu](#)

Removal of Arsenic from Contaminated Groundwater Using Nano Cobalt-Ferrous Oxide (CoFe_2O_4)

11:15 [Nguyen Thai Anh](#), [Nguyen Nhat Huy](#), [Nguyen Vinh Tien](#), [Tran Thi Thanh Hieu](#) and [Le Thi Quynh 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 [Idaa 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](#)
Application of a Conceptual Model GR4J in the Stream Flow Simulation and Prediction for Cai-Phan Rang River Basin
- 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 \(3rd floor\)](#)

13:30-15:15 Session 4A: Environmental Technology and Biochemical Technology

CHAIRS: [Bich Hanh Dang Vu](#) and [Cherdsak Maneeruttanarungroj](#)

LOCATION: [A4 Hall](#)

- 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 Distillation (SMB-AnOSMBR/MD) Hybrid System for Municipal Wastewater Treatment
- 13:45 [Adinda Larasati](#) and [Idaa 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 [Cherdsak Maneeruttanarungroj](#)

Hydrogen Production from Green Algae *Tetraspora* sp. CU2551 and *Chlorella* sp. KLS59

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

- 15:15 [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
- 15:15 [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
- 15:15 [Chien Thang Doan](#), [Thi Ngoc Tran](#), [Van Bon Nguyen](#), [Anh Dzong Nguyen](#) and [San-Lang Wang](#) (P.11)
Production of Chitosanases and Chitooligosaccharides from Liquid Fermentation Process of Chitinous Fishery Byproducts via *Paenibacillus* sp.
- 15:15 [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
- 15:15 [Thi Ngoc Tran](#), [Chien Thang Doan](#), [Van Bon Nguyen](#), [Anh Dzong Nguyen](#) and [San-Lang Wang](#) (P.16)
Conversion of Wheat Bran to Xylanases via *Streptomyces Thermocarboxydus*
- 15:15 [Chompoonut Chaiyaraksa](#), [Kuncharida Sangdean](#), [Siraprapa Thongkum](#) and [Supaluk Tongpeng](#) (P.20)
Treatment of Petrol Station Wastewater by Persulfate and Ferrous Ion
- 15:15 [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
- 15:15 [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
- 15:15 [Hsin-Yi Tsai](#) (P.26)
Organic Sensitizers Using Indolium as Acceptor for Dye-Sensitized Solar Cells
- 15:15 [Jih-Wei Huang](#) (P.27)
Enhancing Signal Intensity and Precision of Liquid Crystal-Based Sensor by Using Fine Grids Made by Photolithography of Photoresist
- 15:15 [Trong-Ming Don](#), [Wen-Shan Yang](#) and [Tung-Wen Cheng](#) (P.32)
Preparation of Oil-Based Stable Sliver Dispersions for Printable Electronics
- 15:15 [Trong-Ming Don](#), [Sheng-Huang Wu](#), [Ting-Shu Li](#) and [Yi-Hsun Liu](#) (P.33)
Structure and Toughness Improvement of Poly (lactic acid) Blends
- 15:15 [Giang Lam Van](#) and [Thanh Ho Phuoc](#) (P.36)
Study on Enhancing the COD Removing Utilizing Cationic Starch Replace the PAC in Coagulation-Flocculation Process for Fishery Processing Wastewater
- 15:15 [Jing Jie Xu](#) (P.40)
Phenyl-Carbazole Based Bilayer Interface Exciplex for Green Organic Light Emitting Diode
- 15:15 [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 Khanh 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