



15TH INTERNATIONAL FORUM ON GREEN TECHNOLOGY AND MANAGEMENT - IFGTM 2025

*“Green Technology and Management Solutions towards
Sustainable Development and Net-Zero”*

25-26 July 2025 | Hue City



CONFERENCE PROGRAM

15TH INTERNATIONAL FORUM ON GREEN TECHNOLOGY AND MANAGEMENT – IFGTM 2025

“Green Technology and Management Solutions towards Sustainable Development and Net-Zero”

*Venue: University of Sciences, Hue University
77 Nguyen Hue Street, Thuan Hoa Ward, Hue City, Vietnam*

Day 1: 25 July 2025

Venue: Meeting room A2.06

16:00 - 17:00	Meeting of representatives of CGTMR members
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Day 2: 26 July 2025

Opening session **8:00 – 9:25**

*Venue: Hall A1
Facilitator: Assoc. Prof. Nguyen Dang Giang CHAU (HUSC)*

8:00 – 8:30	Registration
8:30 – 8:35	Guest introduction
8:35 – 8:45	Opening speech <i>Assoc. Prof. Vo Thanh TUNG - Rector, University of Sciences, Hue University (HUSC)</i>
8:45 – 8:55	Opening address <i>Prof. Huynh Trung HAI - Chairman of CGTMR Dean, SMSE, Hanoi University of Science and Technology</i>
8:55 – 9:05	Welcome speech <i>The Representative of Hue University</i>
9:05 – 9:15	Giving gifts to University/Sponsor representatives by HUSC leaders
9:15 – 9:25	Photo session



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Plenary session 9:25 – 11:40

Venue: **Hall A1**

Chairpersons: **Prof. Huynh Trung HAI (HUST), Assoc. Prof. Hoang Cong TIN (HUSC)**

9:25 – 9:50	<p>Keynote Speakers: Japan's experience in overcoming water pollution problems: Its history and challenges <i>Prof. Shigeo FUJII</i> <i>Kyoto University, Japan</i></p>
9:50 – 10:15	<p>Key issues and adaptive solutions in water supply and wastewater management in Hanoi city <i>Prof. Nguyen Viet ANH</i> <i>Hanoi University of Civil Engineering, Vietnam</i></p>
10:15 – 10:30	<p>Coffee break</p>
10:30 – 10:55	<p>Nutrient recycling from urbanised regions to agricultural areas <i>Prof. Hidenari YASUI</i> <i>The University of Kitakyushu, Japan</i></p>
10:55 – 11:20	<p>Environmental and Climate Co-Benefits of Recycling Steel Slag as a Construction Aggregate <i>Assoc. Prof. Tran Thanh NHAN</i> <i>University of Sciences, Hue University</i></p>
11:20 – 11:40	<p>Sustainable mining zones: Balancing environmental impacts and developmental needs <i>Assoc. Prof. Edward PARK (Video Recorded Presentation)</i> <i>Nanyang Technological University, Singapore</i></p>

Poster Session (1) 11:40 – 12:15

Venue: **In front of Hall A1**

Chairman: **Dr. Le Cong TUAN (HUSC)**

Evaluation members:

1. **Assoc. Prof. Pham Khac LIEU (HUSC)**
2. **Assoc. Prof. Nguyen Duc QUANG (HUST)**
3. **Dr. Dang Trung THANH (TDMU)**

Secretary: **Dr. Tran Ngoc TUAN, MSc. Duong Thanh CHUNG (HUSC)**



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11:40 – 11:42	Brief introduction to poster session <i>Dr. Le Cong TUAN – University of Sciences, Hue University</i>
11:42 – 12:15	Q&A at poster site <i>[Please see the list of posters in Annex]</i>

Lunch breaks 12:15 – 13:30

Venue: The Spice Viet restaurant – 15 Ly Thuong Kiet, Hue City

Poster Session (2) 13:30 – 14:15

Venue: In front of Hall A1

Chairman: Dr. Le Cong TUAN (HUSC)

13:30 – 14:15	Q&A at poster site (cont.)
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Parallel Sessions 14:15 – 16:30

Session 1: Green Technologies for Pollution Control

Venue: Hall A1

Chairpersons: Prof. Nguyen Viet ANH (HUCE) and Assoc. Prof. Nguyen Thi HA (VNU-HUS)

Secretary: MSc. Hoang Thi My HANG (HUSC)

14:15 – 16:30	15 minutes/presenter (12-minute presentation, 3-minute Q&A)
14:15 – 14:30	ID_67: Design considerations and operational variations of a pond-wetland system for polishing treatment and wastewater emergency control at a steel complex Prof. Nguyen Viet ANH <i>Institute of Environmental Science and Engineering, Hanoi University of Civil and Engineering (HUCE)</i>
14:30 – 14:45	ID_65: The impact of pond aquaculture on the composition of organic carbon and nitrogen in suspended matter: An evidence from the Tam Giang–Cau Hai lagoon system in Central Vietnam Hoang Thi My HANG <i>Faculty of Environmental Sciences, University of Science, Hue University</i>



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14:45 – 15:00	<p>ID_27: Novel preparation of electroplating sludge and rice husk biochar for the photocatalytic degradation of phenol in aqueous environment Hoang Minh TRANG <i>Faculty of Environmental Sciences, University of Science, Vietnam National University</i></p>
15:00 – 15:15	<p>ID_21: Enhanced struvite precipitation efficiency from rich nitrogen and phosphate wastewater by modified powder coffee waste Tran Thi To UYEN <i>Faculty of Environmental Sciences, University of Science, Vietnam National University, Hanoi</i></p>
15:15 – 15:30	<p>ID_88: Solid waste management in the footwear industry: An implication for circular economy in Vietnam Wang S CHUNG <i>Ho Chi Minh City University of Science and Technology</i></p>
15:30 – 15:45	<p>ID_45: A novel aqueous separation of aluminum and plastic recovery in multilayer packaging waste for sustainable recycling Nguyen Thi Thanh TRUC <i>Institute for the Environmental Science, Engineering and Management, Industrial University of Ho Chi Minh City</i></p>
15:45 – 16:15	Brief discussion
16:15 – 16:30	Concluding remarks and certificate awarding for oral presentations.

Session 2: Advanced Tools and Solutions for Resources and Environmental Management

Venue: **Meeting Room A1.06**

Chairpersons: **Prof. Nguyen Manh KHAI (VNU-HUS) and Assoc. Prof. Nguyen Xuan LOC (CTU)**

Secretary: **Dr. Nguyen Bac GIANG (HUSC)**

14:15 – 16:30	15 minutes/presenter (12-minute presentation, 3-minute Q&A)
14:15 – 14:30	<p>ID_46: Assessing the current status and proposing the solutions for hazardous waste management at industrial parks in Chon Thanh district, Binh Phuoc province Le Quoc TUAN <i>Faculty of Environment and Natural Resource, Nong Lam University, Ho Chi Minh City</i></p>



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14:30 – 14:45	<p>ID_1: Application of image analysis in monitoring Medaka fish behavior for detecting cyanide contamination in water at trace levels To Thi HIEN <i>University of Science, Vietnam National University Ho Chi Minh City</i></p>
14:45 – 15:00	<p>ID_31: Analysis of riverine flood dynamics in An Giang, Vietnam via Sentinel-1 satellite imagery Ho Ngoc Nhu Y <i>Vietnamese-German University</i></p>
15:00 – 15:15	<p>ID_50: Exploring innovative, adaptive solutions for sustainable urban drainage through runoff simulation as an efficient decision-making tool: A case study of Vietnam Nguyen Tra MY <i>Institute of Environmental Science and Engineering, Hanoi University of Civil Engineering</i></p>
15:15 – 15:30	<p>ID_20: Daily suspended sediment concentration forecasting in the Vu Gia - Thu Bon River system using an ensemble CNN-LSTM model Nguyen Van AN <i>University of Science and Education, The University of Danang</i></p>
15:30 – 15:45	<p>ID_92: Salinity forecasting in the Vietnamese Mekong Delta: Evaluating the predictive power of machine learning approaches using multitemporal lag features Le Van QUYEN <i>Vietnamese-German University</i></p>
15:45 – 16:15	Brief discussion
16:15 – 16:30	Concluding remarks and certificate awarding for oral presentations.



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Session 3: Energy and Climate change

Venue: **Meeting Room A2.06**

Chairpersons: **Assoc. Prof. Do Van MANH (ISTEE) and Assoc. Prof. Nguyen Thi Anh TUYET (HUST)**

Secretary: **Dr. Dang Thi Thanh LOC (HUSC)**

14:15 – 16:30	15 minutes/presenter (12-minute presentation, 3-minute Q&A)
14:15 – 14:30	ID_97: Pathways to resilient cities and sustainable food systems: Insights from WWF-Vietnam’s Urban Food System Working Group and One Planet City Challenge Team Vu Quoc ANH <i>WWF-Vietnam</i>
14:30 – 14:45	ID_94: Food consumption and greenhouse gas emissions: A household-level analysis in Hue City, Vietnam Nguyen Thi Ngoc THAO <i>Saigon University</i>
14:45 – 15:00	ID_40: From waste to fuel: Biodiesel synthesis using eggshell-derived CaO catalysis Tong Thi Minh THU <i>Saigon International University</i>
15:00 – 15:15	ID_95: Greenhouse gas inventory at the sub-national level using the CIRIS tool: A case study in Quang Tri province, Vietnam Nguyen Thi Hoai GIANG <i>Hue University</i>
15:15 – 15:30	ID_96: Greenspace, Meteorology, and Air Quality: Unraveling Their Interactions in Taiwan Nguyen Quang VIET <i>Faculty of Geography & Geology, University of Sciences, Hue University</i>
15:30 – 15:45	ID_08: Indoor fine particle pollution in high-rise apartments in Hanoi Tran Dang Tuan KIET (Online Presentation) <i>School of Chemistry and Life Sciences, Hanoi University of Science and Technology</i>
15:45 – 16:00	ID_19: Assessing the trend of ozone concentration and its key influences at a monitoring station in Hanoi, Vietnam during 2018-2021 Cao Thi Mai HUONG (Online Presentation) <i>Faculty of Environmental Science and Technology, School of Chemistry and Life Sciences, Hanoi University of Science and Technology</i>



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16:00 – 16:15	Brief discussion
16:15 – 16:30	Concluding remarks and certificate awarding for oral presentations.

Closing Session 16:30 – 17:15

Venue: **Hall A1**

Chairpersons: **Prof. Huynh Trung HAI and Assoc. Prof. Hoang Cong TIN**

16:30 – 16:50	Best Poster Awards
16:50 – 17:00	Summarizing all the Sessions <i>Assoc. Prof. Hoang Cong TIN - Executive member of Organizing Committee</i>
17:00 – 17:05	Flag Transfer Ceremony <i>Representatives of HUSC</i>
17:05 – 17:15	Closing Remarks <i>Prof. Huynh Trung HAI - Chairman of CGTMR</i>
18:30 – 20:00	Gala Dinner <i>Nam Chau Hoi Quan restaurant - 04 Kim Long, Hue City</i>

ORGANIZING COMMITTEE



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Annex: The List of Poster Presentation

No.	ID	Title	Presenters
1	ID_17	Tracking mangrove ecosystem changes in An Hoa lagoon, Central Vietnam: A two-decade analysis of drivers and responses	Ngo Huu Binh, Tran Ngoc Khanh Ni, Nguyen Thi Hoai Giang, Hoang Cong Tin
2	ID_18	Synthesis and application of magnesium and iron oxide/hydroxide bifunctional materials on ion exchange resins for phosphate and hardness treatment in wastewater	Tran Le Ba
3	ID_36	Green synthesis of NiFe ₂ O ₄ .CQDs nanomaterials for effective photocatalytic degradation of crystal violet dye under visible light	Do Mai Nguyen, Vo Ngoc Chau Anh
4	ID_41	The impact of green banking practices on environmental performance of commercial banks in Ho Chi Minh City in the context of climate change	Ly Ngoc Yen Nhi, Pham Thuy Vy, Ngo Thuy Thao Nguyen
5	ID_43	Growth potential of <i>Rhodopseudomonas</i> sp. bacteria in different organic carbon sources and its application in aquaculture wastewater treatment	Le Van Tuan, Truong Quy Tung, Dang Thi Thanh Loc, Nguyen Thi Thu Lien
6	ID_44	Enhancing the harvesting efficiency of <i>Tetraselmis</i> sp. biomass from aquaculture wastewater via electrocoagulation technology	Dang Thi Thanh Loc, Le Van Tuan
7	ID_48	Research on the production of microbial preparation for the treatment of pesticide residues chlorpyrifos ethyl in agricultural soil	Luong Huu Thanh, Vu Thuy Nga, Nguyen Ngoc Quynh, Dam Trong Anh, Nguyen Thanh Lam, Tran Thị Nhu Hang, Nguyen Kieu Bang Tam



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8	ID_50	Exploring innovative, adaptive solutions for sustainable urban drainage through runoff simulation as an efficient decision-making tool: a case study of Vietnam	Nguyen Tra My, Nguyen Lan Huong, Nguyen Thi Thuy, Nguyen Viet Anh
9	ID_55	Synthesis of Al-MOF-Based Porous Carbons as Adsorbents for Removal of Chloramphenicol from Aqueous Solutions	Thuan Van Tran, A.A. Jalil
10	ID_56	Adsorption of Rhodamine B, Methyl Orange, and Methyl Red by NiFe ₂ O ₄ - Loaded Carbon from A Biomass Source of <i>Bidens pilosa</i>	Duyen Thi Cam Nguyen, A.A. Jalil
11	ID_63	Design of a Melem/BiVO ₄ /g-C ₃ N ₅ Photocatalyst with a Conjugated S-Scheme Charge Transfer Pathway for Enhanced Photocatalytic Performance under LED Illumination	Vinh Nguyen Huu, Hiep Quang Ha, Oanh T.K. Nguyen, Trinh Duy Nguyen
12	ID_66	Facile synthesis of Bi/g-C ₃ N ₄ photocatalysts for the Sulfamethoxazole degradation under visible light irradiation	Oanh Kim Thi Nguyen, Vinh Huu Nguyen, Trinh Duy Nguyen
13	ID_68	Nanobubble characterization under various operational conditions	Viet-Anh Nguyen, Trong Bang Le, Nguyen Viet Anh, Thi Thuy Bui
14	ID_78	Adsorption on silica gel assist polyhydroxyalkanoates extraction: experimental design of parameter	Sasina Promdee, Seangduen Wattiwong, Atsadawut Areesirisuk, Manoch Posung, Suthida Tantigumthon, Tsuyoshi Imai, Jantima Teeka
15	ID_86	Building an Environmental Protection Performance Index for the Enterprise level in Vietnam	Nguyen Hien Than, Duong Quach Kim Ngan, Le Trong Dieu Hien