



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

SPONSORS



TENTATIVE PROGRAM

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>Dr. Do Thi Xuan DUNG - Vice-President of Hue University</i>
9:05 - 9:10	CGTMR Membership Ceremony
9:10 - 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	Keynote Speakers: Japan's experience in overcoming water pollution problems: Its history and challenges Prof. Shigeo FUJII <i>Kyoto University, Japan</i>
9:50 – 10:15	Key issues and adaptive solutions in water supply and wastewater management in Hanoi city Prof. Nguyen Viet ANH <i>Hanoi University of Civil Engineering, Vietnam</i>
10:15 - 10:30	<i>Coffee break</i>
10:30 - 10:55	Nutrient recycling from urbanised regions to agricultural areas Prof. Hidenari YASUI <i>The University of Kitakyushu, Japan</i>
10:55 - 11:20	Environmental and Climate Co-Benefits of Recycling Steel Slag as a Construction Aggregate Assoc. Prof. Tran Thanh NHAN <i>University of Sciences, Hue University</i>
11:20 - 11:40	Sustainable mining zones: Balancing environmental impacts and developmental needs Assoc. Prof. Edward PARK (Video Recorded Presentation) <i>Nanyang Technological University, Singapore</i>

Poster Session (1)

11:40 – 12:15

Venue: *In front of Hall A1*

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

Evaluation members:

1. **Prof. Trinh Van TUYEN (ISTEE)**
2. **Assoc. Prof. Pham Khac LIEU (HUSC)**
3. **Assoc. Prof. Nguyen Duc QUANG (HUST)**

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

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	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>
15:00 – 15:15	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>
15:15 – 15:30	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>
15:30 – 15:45	ID_39: Optimizing irrigation water efficiency for seasonal rice cultivation in the Mekong Delta in the context of climate change Dang Thi Thanh LE <i>University of Science, Vietnam National University Ho Chi Minh City</i>
15:45 – 16:00	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>
16:00 – 16:30	Brief discussion, concluding remarks, and certificate awarding for oral presentations.

Session 2: Advanced Tools and Solutions for Resources and Env. Management

Venue: **Meeting Room A2.06**

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)
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14:15 – 14:30	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>
14:30 – 14:45	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>
14:45 – 15:00	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>
15:00 – 15:15	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>
15:15 – 15:30	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>
15:30 – 15:45	ID_59: Application of remote sensing and Bayesian model averaging methods for assessing saltwater intrusion in Ben Tre Province Ngo Tran SANG <i>Faculty of Natural Resources and Environment, Thu Dau Mot University</i>
15:45 – 16:00	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>
16:00 – 16:30	Brief discussion, concluding remarks, and certificate awarding for oral presentations.



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Session 3: Energy and Climate change

Venue: **Meeting Room A1.06**

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: Dietary patterns as a driver of greenhouse gas emissions: A household-level analysis in Hue City, Vietnam Nguyen Thi Ngoc THAO <i>Saigon University</i>
14:45 – 15:00	ID_08: Indoor fine particles 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>
15:00 – 15:15	ID_40: Optimization of biodiesel synthesis from waste cooking oil using eggshell-derived CaO as a heterogeneous catalyst for enhanced yield and purity Tong Thi Minh THU <i>Saigon International University</i>
15:15 – 15:30	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>
15:30 – 15:45	ID_19: Assessing the trend of ozone concentration and its key influences at two monitoring stations 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>
15:45 – 16:00	<i>TBC</i>
16:00 – 16:30	Brief discussion, concluding remarks, and certificate awarding for oral presentations.



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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_02	Application of data mining techniques and GIS for land suitability assessment in sustainable orange cultivation development in Tra On district, Vinh Long province	Nguyen Huy Anh
2	ID_12	Eliminating sulfamethoxazole antibiotic from water by microfiltration membrane grafted with modified chitosan	Tran Van Son
3	ID_13	Integrated membrane and UV-advanced oxidation processes for sustainable water reuse in dragon fruit processing	Nguyen Thi Thu Trang
4	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
5	ID_36	Green synthesis of NiFe ₂ O ₄ .CQDs nanomaterials for effective photocatalytic degradation of crystal violet dye under visible light	Vo Ngoc Chau Anh
6	ID_37	Solvent-mediated processing of rice husk and waste polystyrene composites: an alternative approach	Tong Thi Minh Thu
7	ID_40	Optimization of biodiesel synthesis from waste cooking oil using eggshell-derived CaO as a heterogeneous catalyst for enhanced yield and purity	Tong Thi Minh Thu
8	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
9	ID_42	Enhancing risk control efficiency in aluminothermic welding: A practical case study from the Ho Chi Minh City urban railway line 1 construction project	Do Quang Huy
10	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
11	ID_48	Research on the production of microbial preparation for the treatment of pesticide residues chlorpyrifos ethyl in agricultural soil	Nguyen Kieu Bang Tam
12	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
13	ID_54	Potential for organic fertilizer production from seafood processing sludge and shrimp pond sludge	Nguyen Vo Chau Ngan



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14	ID_58	Studying a sorbent from cement and lime for treating phosphorus in seafood processing wastewater	Nguyen Vo Chau Ngan
15	ID_68	Nanobubble characterization under various operational conditions	Nguyen Viet Anh
16	ID_71	Evaluation of the ability of Sentinel 3 OCLI images in estimating Chl-a in Ganh Rai Bay area using machine learning model	Tran Thanh Ha
17	ID_75	Reducing odor pollution by bio-filter technology on sugar cane bagass filter bed	Nguyen Truong Thanh
18	ID_78	Adsorption on silica gel assist <i>polyhydroxyalkanoates</i> extraction: experimental design of parameter	Jantima Teeka
19	ID_83	Assessment of noise pollution levels from traffic activities in Phu Cuong, Thu Dau Mot City, Binh Duong Province	Bui Pham Phuong Thanh
20	ID_88	Solid waste management in the footwear industry: an implication for circular economy in Vietnam	Wang Shih Chun
21	ID_91	Levels of selected indoor air pollutants, a case study in a residential room with incense burning	Duong Thi Thao Ly Bich Thuy
22	ID_93	Analysis of riverine and coastal flood frequency in the Vietnamese Mekong Delta using Sentinel-1 satellite imagery	Ho Ngoc Nhu Y
23	ID_94	Research on using potassium hydroxide solution and heat for sludge pre-treatment from centralized domestic wastewater treatment plants	Le Ngoc Thuan
24	ID_44	Enhancing the harvesting efficiency of <i>Tetraselmis</i> sp. biomass from aquaculture wastewater via electrocoagulation technology	Dang Thi Thanh Loc
25	ID_23	The risk level of microplastic pollution in surface water and sediments at Ba Be Lake	Duong Tuan Manh
26	ID_96	HO•-initiated degradation of β -endosulfan pesticide in the aqueous phase: A theoretical study	Truong Dinh Hieu Nguyen Thi Ai Nhung
27	ID_98	High efficiency of seafood processing wastewater treatment using Intermittent Cycle Extended Aeration System (ICEAS)	Tran Thi Thai Hang, Tran Le Luu*