



## IFGTM 2021 AGENDA

### THE 11<sup>th</sup> INTERNATIONAL FORUM ON GREEN TECHNOLOGY AND MANAGEMENT GREEN PATHWAYS TOWARDS A SUSTAINABLE FUTURE

Hall 1, 1<sup>st</sup> floor, Administration Building, Can Tho University-Campus 2  
26<sup>th</sup> November 2021

#### OPENING REMARKS AND PLENARY SESSION

**Chair:** Prof. Vo Quang Minh, *Can Tho University*

**Co-chair:** Assoc. Prof. Vo Le Phu, *Ho Chi Minh University of Technology*

**Zoom link:** <https://zoom.us/j/92839740882?pwd=bDBWKzBGYVU3bFAvQVgvMzN4a3ZZUT09>

**Meeting ID:** 928 3974 0882 **Passcode:** 261121

7:00-7:45	Registration
7:45-8:00	Introduction Dr. Phan Kieu Diem, <i>Can Tho University</i>
8:00-8:10	Welcome speech by Vice Rector of Can Tho University Prof. Tran Ngoc Hai, <i>Can Tho University</i>
8:10-8:20	Welcome speech by Chairman of IFGTM consortium Prof. Huynh Trung Hai, <i>Ha Noi University of Science and Technology</i>
8:20-8:40	Mekong Delta: its importance, vulnerabilities, and possibilities Prof. Atshusi Ishimatsu, Emeritus Professor, <i>JICA Can Tho University project</i>
8:40-9:00	Biomass blending and densification to enhance energy properties of perennial grasses and agricultural residues Dr. Wichitra Singhirunnusorn, Director of Multidisciplinary Research Center for Environmental Sustainability, <i>Maharakham University, Thailand</i>
9:00-9:05	Wrap-up session Prof. Vo Quang Minh
9:05-9:10	Online meeting photos and parallel sessions instruction Dr. Phan Kieu Diem

#### PARALLEL SESSIONS

<b>Session 1: Application of filter materials for wastewater treatment</b> <b>Chair:</b> Prof. Trinh Van Tuyen, <i>Viet Nam Academy of Science and Technology</i> <b>Co-Chair:</b> Assoc. Prof. Hoang Cong Tin, <i>Hue University of Science</i>	<b>Session 2: Innovative technology in wastewater treatment</b> <b>Chair:</b> Assoc. Prof. Tran Van Quang, <i>Da Nang University</i> <b>Co-Chair:</b> Assoc. Prof. Pham Thi Thuy, <i>University of Science, Vietnam National University Hanoi</i>
<b>Session 3: Environmental modelling</b> <b>Chair:</b> Assoc. Prof. Nguyen Manh Khai, <i>University of Science, Vietnam National University Hanoi</i> <b>Co-Chair:</b> Assoc. Prof. Van Pham Dang Tri, <i>Can Tho University</i>	<b>Session 4: Land-use and sustainable development</b> <b>Chair:</b> Dr. Nigel Downes, <i>Can Tho University and GIZ</i> <b>Co-Chair:</b> Dr. Dao Minh Trung, <i>University of Thu Dau Mot</i>
<b>Session 5: Plastic waste and environmental monitoring</b> <b>Chair:</b> Assoc. Prof. Tran Thi Viet Nga, <i>National University of Civil Engineering</i> <b>Co-Chair:</b> Dr. Tran Sy Nam, <i>Can Tho University</i>	<b>Session 6: Air pollution</b> <b>Chair:</b> Assoc. Prof. To Thi Hien, <i>Ho Chi Minh University of Science, VNUHCM</i> <b>Co-Chair:</b> Dr. Thai Phuong Vu, <i>Ho Chi Minh city University of Natural Resources and Environment</i>
<b>Session 7: Air pollution treatment technology</b> <b>Chair:</b> Assoc. Prof. Tran Thi Hien Hoa, <i>National University of Civil Engineering</i> <b>Co-Chair:</b> Dr. Nguyen Thanh Giao, <i>Can Tho University</i>	

## **Session 1: Application of filter materials for wastewater treatment**

**Chair:** Prof. Trinh Van Tuyen, *Viet Nam Academy of Science and Technology*

**Co-Chair:** Assoc. Prof. Hoang Cong Tin, *Hue University of Science*

**Zoom link:** <https://zoom.us/j/92839740882?pwd=bDBWKzBGYVU3bFAvQVgvMzN4a3ZZUT09>

**Meeting ID:** 928 3974 0882 **Passcode:** 261121

9:15-9:35	Experiment on water filter material production from clay and rice husk Author: MSc. Nguyen Trung Hiep, <i>Ho Chi Minh city University of Natural Resources and Environment</i>
9:35-9:55	Removal of the antibiotic sulfamethoxazole from water by biobed system Author: Dr. Tran Van Son, <i>Faculty of Environmental Sciences, University of Science, Viet Nam National University, Ha Noi</i>
9:55-10:15	Recovery of N and P from piggery wastewater by activated carbon produced from agricultural waste Author: Dr. Le Thi Hoang Oanh, <i>University of Science, Viet Nam National University, Ha Noi</i>
10:15-10:35	Study on recycle of granulated blast-furnace slag as an adsorbent for ammonium remediation in wastewater Author: Dr. Trinh Minh Viet, <i>Institute of Environmental Technology, Viet Nam Academy of Science and Technology</i>
10:35-10:55	Photocatalytic degradation of Enrofloxacin by $\text{TiO}_2$ and $\text{Bi}_2\text{Se}_3/\text{TiO}_2$ nanomaterials Author: Dr. Le Huu Phuoc, <i>Faculty of Basic Sciences, Can Tho University of Medicine and Pharmacy</i>
10:55-11:00	Wrap-up session Prof. Trinh Van Tuyen

## **Session 2: Innovative technology in wastewater treatment**

**Chair:** Assoc. Prof. Tran Van Quang, *Da Nang University*

**Co-Chair:** Assoc. Prof. Pham Thi Thuy, *University of Science, Vietnam National University Hanoi*

**Zoom link:** <https://us06web.zoom.us/j/4658042537?pwd=SGoxRFN6VFg1Qm13OXkwZkxYeXJ3Zz09>

**Meeting ID:** 465 804 2537 **Passcode:** 261121

9:15-9:35	Effects of calcium nitrate and iron (III) chloride on the improvement of urban lake water quality Author: Dr. Bui Thi Thuy, <i>Thuy Loi University</i>
9:35-9:55	Modification of agricultural-waste-based activated carbons for removal/recovery of phosphate from domestic wastewater Author: Dr. Pham Tien Duc, <i>Chemical Engineering Department, Faculty of Engineering Science, KU Leuven</i>
9:55-10:15	Study on characteristics, heavy metals pollution in industrial sludges and using effective extraction method to recover heavy metals from sludges Author: Dr. Nguyen Thuy Chung, <i>School of Environmental Science and Technology, Ha Noi University of Science and Technology</i>
10:15-10:35	Water management for sustainable fisheries: Bangladesh perspective Author: Prof. Mst. Kaniz Fatema, <i>Bangladesh Agricultural University</i>
10:35-10:40	Wrap-up session Assoc. Prof. Tran Van Quang

### Session 3: Environmental modelling

**Chair:** Assoc. Prof. Nguyen Manh Khai, *University of Science, Vietnam National University Hanoi*

**Co-Chair:** Assoc. Prof. Van Pham Dang Tri – *Can Tho University*

**Zoom link:** <https://us06web.zoom.us/j/6413143476?pwd=TWs3enhGS2RseWVIRUNnenhYcFJadz09>

**Meeting ID:** 641 314 3476 **Passcode:** 261121

9:15-9:35	Use a mathematical model to simulate the nutrients (N, P) in water and sludge of catfish ( <i>Pangasianodon hypophthalmus</i> ) ponds in Vietnam Author: Mr. Le Xuan Thinh, <i>School of Environmental Science and Technology, Ha Noi University of Science and Technology</i>
9:35-9:55	Linking of land subsidence and groundwater level decline in Mekong Delta: a review Author: Dr. Ha Quang Khai, <i>Ho Chi Minh City University of Technology</i>
9:55-10:15	Assessment ground ozone (O <sub>3</sub> ) impacts on agricultural crop yields in the Mekong Delta, Vietnam Author: Mr. Nguyen Hoang Phong, <i>Ho Chi Minh City University of Technology</i>
10:15-10:35	Assessing social vulnerability to riverbank erosion in main streams of the Vietnamese Mekong Delta Author: Mr. Phan Ky Trung, <i>College of Environment and Natural Resources, Can Tho University</i>
10:35-10:55	The seasonal groundwater salinity and its use in the coastal Vietnamese Mekong Delta Author: Ms. Duong Quynh Thanh, <i>College of Environment and Natural Resources, Can Tho University</i>
10:55-11:15	Enhancing quality of life through sustainable urban transformation in Cambodia: Introduction to the Build4 People Project Author: Dr. Michael Waibel, <i>Center for Earth System Research and Sustainability, Hamburg University</i>
11:15-11:35	Prediction of groundwater arsenic level based on a superior regression model Author: Prof. Nabendu Pal, <i>University of Louisiana at Lafayette, USA</i>
11:35-11:40	Wrap-up session Assoc. Prof. Nguyen Manh Khai

### Session 4: Land-use and sustainable development

**Chair:** Dr. Nigel Downes, *Can Tho University and GIZ*

**Co-Chair:** Dr. Dao Minh Trung, *University of Thu Dau Mot*

**Zoom link:** <https://us06web.zoom.us/j/9603620686?pwd=RW9jQ1lFMVdMOWRCWDNNVitnRW9Zdz09>

**Meeting ID:** 960 362 0686 **Passcode:** 261121

9:15-9:35	Assessment of rooftop solar power potential in commercial and industrial sector: Some reference cases in Da Nang city Author: Assoc. Prof. Tran Anh Tuan, <i>University of Sciences, Hue University</i>
9:35-9:55	Developing solution roadmaps for rice production in flooding area of the Vietnamese Mekong delta adapting to uncertain changes in climate and surface water resources Author: Mr. Hong Minh Hoang, <i>Mekong Delta Development Research Institute, Can Tho University</i>
9:55-10:15	Anthropogenic threats to geosites of south-central coast, Vietnam Author: PhD student Hoang Thi Phuong Chi, <i>University of Science, Viet Nam National University Ho Chi Minh City</i>
10:15-10:35	Relationship of urban heat with building density and green spaces - a remote sensing-based study across Vietnam's metropolitan areas Author: Dr. Andreas Braun, <i>Institute of Geography, University of Tuebingen</i>
10:35-10:55	Users' perspectives for sustainable transformation pathways of Vietnam's building sector Author: Dr. Nguyen Thi Thu Thuy, <i>Center for Earth System Research and Sustainability, Hamburg University</i>
10:55-11:15	Blue Dragon programme; preparing for the next step Author: Dr. Tjeerd Dijkstra, <i>Blue Dragon, Can Tho University</i>
11:15-11:20	Wrap-up session Dr. Nigel Downes

## Session 5: Plastic waste and environmental monitoring

**Chair:** Assoc. Prof. Tran Thi Viet Nga *National University of Civil Engineering*

**Co-Chair:** Dr. Tran Sy Nam, *Can Tho University*

**Zoom link:** <https://us06web.zoom.us/j/82218299781?pwd=RS9lcnJQcGNKeGZpMTI3Z2o2aDFZUT09>

**Meeting ID:** 822 1829 9781 **Passcode:** 261121

9:15-9:35	Distribution of micro-plastic in wastewater and sludge from the plants producing recycled plastic – seeds Author: Assoc. Prof. Nguyen Thi Van Ha, <i>Ho Chi Minh city University of Natural Resources and Environment</i>
9:35-9:55	Abundance and characteristics of microplastics in surface water of Can Gio sea Author: MSc. Nguyen Thi Thanh Nhon, <i>University of Science, Viet Nam National University, Ho Chi Minh City</i>
9:55-10:15	Status of lead contamination in soil at Dong Mai handicraft village, Van Lam district, Hung Yen province Author: Assoc. Prof. Nguyen Thi Ha, <i>University of Science, Viet Nam National University, Ha Noi</i>
10:15-10:35	Artificial breeding and larval rearing techniques of ayu ( <i>Plecoglossus altivelis</i> ) with the purpose of conservation Author: Dr. Ha Manh Linh, <i>Nagasaki University</i>
10:35-10:55	Sustainable consumption through mindful lifestyle to reduce plastic waste Author: Dr. Tran Thi Minh Hang, <i>University of Science, Viet Nam National University, Ha Noi</i>
10:55-11:00	Wrap-up session Assoc. Prof. Tran Thi Viet Nga

## Session 6: Air pollution

**Chair:** Assoc. Prof. To Thi Hien, *Ho Chi Minh University of Science, VNUHCM*

**Co-Chair:** Dr. Thai Phuong Vu, *Ho Chi Minh city University of Natural Resources and Environment*

**Zoom link:** <https://us06web.zoom.us/j/2690296272?pwd=WWlrTFhJeFFpaldxNkNDR0JZM1ladz09>

**Meeting ID:** 269 029 6272 **Passcode:** 261121

9:15-9:35	The first investigation on characteristics and sources of organic and elemental carbon in PM <sub>2.5</sub> in Ho Chi Minh City, Vietnam Author: Assoc. Prof. To Thi Hien, <i>Ho Chi Minh University of Science</i>
9:35-9:55	Emission fine particulate matter PM <sub>2.5</sub> from cooking activities Author: Mr. Pham Quoc Kiet, <i>University of Science, Viet Nam National University Ho Chi Minh City</i>
9:55-10:15	Concentrations of PM <sub>0.1</sub> and PM <sub>2.5</sub> at high polluting event days in Hanoi and the effects of meteorological conditions Author: Dr. Ly Bich Thuy, <i>School of Environmental Science and Technology, Ha Noi University of Science and Technology</i>
10:15-10:35	The effect of incense burning on indoor PM <sub>10</sub> and PM <sub>2.5</sub> under ventilation conditions Author: MSc. Duong Cong Thinh, <i>Ton Duc Thang University</i>
10:35-10:55	Study on the outdoor microbiological contamination at some crowded public places in Ho Chi Minh city Author: MSc. Dang Diep Yen Nga, <i>University of Science, Viet Nam National University Ho Chi Minh City</i>
10:55-11:00	Wrap-up session Assoc. Prof. To Thi Hien

<b>Session 7: Air pollution treatment technology</b> <b>Chair:</b> Assoc. Prof. Tran Thi Hien Hoa, <i>National University of Civil Engineering</i> <b>Co-Chair:</b> Dr. Nguyen Thanh Giao, <i>Can Tho University</i> <b>Zoom link:</b> <a href="https://us06web.zoom.us/j/7261779407?pwd=YjQrZjE1QkYrQUF2Mk9aTFRVMTN4UT09">https://us06web.zoom.us/j/7261779407?pwd=YjQrZjE1QkYrQUF2Mk9aTFRVMTN4UT09</a> <b>Meeting ID:</b> 726 177 9407 <b>Passcode:</b> 261121	
9:15-9:35	Capture and removal of pathogens and PM <sub>2.5</sub> fine dust using copper nanoparticles coated fiber filter for air treatment Author: Ms. Eunsil Kang, <i>Hallym University</i>
9:35-9:55	Innovative application of melamine sponge with a copper-organic framework (Cu-CPP) as a multi-functional filter in air purifiers Author: Dr. Le Thi Cam Van, <i>Hallym University</i>
9:55-10:15	The effect of catalyst calcination temperature on catalytic decomposition of waste HFC-134a over $\gamma$ -Al <sub>2</sub> O <sub>3</sub> Author: Mr. Mahshab Sheraz, <i>Hallym University</i>
10:15-10:35	A preliminary investigation of pharmaceuticals and personal care products occurrence in atmospheric particulate matter in Hanoi, Vietnam Author: Dr. Nguyen Hai Doan, <i>Sophia University, Japan</i>
10:35-10:40	Wrap-up session Assoc. Prof. Tran Thi Hien Hoa
<b>CLOSING REMARKS AND ANNOUNCING IFGTM 2022</b> <b>Chair:</b> Prof. Huynh Trung Hai, <i>Ha Noi University of Science and Technology</i> <b>Co-Chair:</b> Assoc. Prof. Nguyen Van Cong, <i>Can Tho University</i> <b>Zoom link:</b> <a href="https://zoom.us/j/92839740882?pwd=bDBWKzBGYVU3bFAvQVgvMzN4a3ZZUT09">https://zoom.us/j/92839740882?pwd=bDBWKzBGYVU3bFAvQVgvMzN4a3ZZUT09</a> <b>Meeting ID:</b> 928 3974 0882 <b>Passcode:</b> 261121	
11:40-11:50	Presentations awards Prof. Huynh Trung Hai, <i>Ha Noi University of Science and Technology</i>
11:50-12:00	Announcement of IFGTM 2022 Prof. Trinh Van Tuyen, <i>Viet Nam Academy of Science and Technology</i>
12:00 -12:10	Closing remarks Assoc. Prof. Nguyen Van Cong, <i>Can Tho University</i>

*In the event of difficulties, please contact Dr. Nguyen Xuan Loc (+84 918.889.024), Mr. Phan Hoang Vu (+84 944.129.127), Mr. Ly Van Loi (+84 902.870.964) or Mr. Cao Thanh Tuan (+84 774.881.969) for Zoom technical assistance.*