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Fourth International Conference

“Valorization of Agricultural Residues Towards Climate-Smart Agriculture in South-East Asia”

“Giá trị gia tăng từ phụ phẩm nông nghiệp
hướng tới nông nghiệp thông minh thích ứng với
khí hậu tại Đông Nam Á”

Organized by	Technical University Berlin & Hanoi University of Science and Technology
Dates	September 19 th 2024
Venue	Seminar Room C2-Hanoi University of Science and Technology
Website	https://s-ircle.com/EN_conference.html

Scientific organization:

1. Prof. Vera Susanne Rotter – Technology University Berlin
2. Assoc. Prof. Tuyen Nguyen Thi Anh – Hanoi University of Science and Technology
3. Assoc. Prof. Son Chu Ky – Hanoi University of Science and Technology
4. Assoc. Prof. Huong Hoang Thi Thu – Hanoi University of Science and Technology
5. Assoc. Prof. Thuy Ly Bich - Hanoi University of Science and Technology

Secretary:

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Program

September 19th (Thursday): Seminar room – C2 Building		
08:30 – 09:00	Registration	
09:00 – 09:10	Welcome Remarks	Assoc. Prof. Huynh Dang Chinh – Vice President of HUST
Plenary Session Chaired by Assoc. Prof. Tuyet Nguyen Thi Anh		
09:20 – 09:40	Prof. Vera Susanne Rotter – TU Berlin Agricultural residues and biogas technology in Vietnam	
09:40 – 10:00	S-IRCLE Project Result	Marcel Spahr – Herbst Umwelttechnik GmbH S-IRCLE I Smart Filter Systems for H ₂ S Removal And S-recovery For Rural Biogas Plants
10:00 – 10:20	S-IRCLE Project Result	Trang Hoang – TU Berlin Study on fertilization potential of recovered sulfur from biogas purification on Pakchoi
10:20 – 10:35	Photo session and Coffee break	
Theme 1 - Biomass resources and bioenergy Chaired by Assoc. Prof. Do Khac Uan		
10:35 – 10:55	Prof. Nguyen Xuan Thinh – TU Dortmund Digital twins and AI methods for climate change adaption and climate-smart agriculture	
10:55 – 11:15	Liwah Wong – TU Berlin Urban-rural material cycles: material flow analysis and stakeholder analysis of circular agricultural economy and future implementation Nguyen Xuan Duong -	
11:15 – 11:35	Dr. Duong Manh Cuong – Thai Nguyen University Agriculture and Forestry Effects of biochar in production of biogas and mitigation of corrosive gases in batch and continuous anaerobic digestion	
11:35 – 13:30	Lunch	
Theme 2 - Sustainable technologies Chaired by Assoc. Prof. Ly Bich Thuy		
13:30 – 13:50	Dr. Pham Kim Cuong - Animal Husbandry Association Vietnam Overview of livestock waste in Vietnam and treatment technologies	
13:50 – 14:10	Dr. Nguyen Thuy Chung – Hanoi University of Science and Technology Synthesis of modified biochar from coconut fiber for effective heavy metals removal in contaminated water	
14:10 – 14:30	Nguyen Thi Hai Anh - Hiroshima University Surface Reconstruction Enabling C ₃ N ₄ Nano-sheet/SnS ₂ Heterostructure for Ultra-fast Visible Light Photodegradation of Acetonminphene	
14:30 – 15:00	Coffee break and Poster Presentation	

**Theme 3 - Environmental Impacts and Management
Chaired by Prof. Nguyen Xuan Thinh**

15:00 – 15:20	Dr. Nguyen Van Thinh - Hiroshima University Biodegradation and Fate of Aliphatic Polyester Plastic Films in Coastal Blue-carbon Ecosystems in Asia
15:20 – 15:40	Dr. Vo Thi Le Ha - Hanoi University of Science and Technology Study on determining the greenhouse gas emissions from the pig farming waste management system in Thai Binh - case study in Thai Thuy and Vu Thu districts
15:40 – 16:00	Dr. Dang Duc Long – Da Nang University Circular Economy Approaches to Rice Straw Management in Vietnam: Biochar Production and Application for Sustainable Agriculture
16:00 – 16:20	Hoang Thi Hong Van – Hanoi University of Science and Technology Assessing the potential for recovery of refuse-derived fuels from landfill mining
16:20 – 16:30	Closure of the conference
18:30 – 21:00	Gala Dinner
September 20th (Friday): Field trip Urenco 11	