

AJI International Workshop

Sustainable Wastewater Management in Southeast Asia: Natural Methods for Heavy Metal Reduction

October 4, 2025 **Saturday**

Time: 14:00–17:30 (JST) **Venue: Online (Zoom)**

Language: English



Abu Bakar Siddique



Abd Aziz Amin



Nguyen Thi Hai



Shaibur Rahman Molla



Marla C. Maniquiz-Redillas



Andi Kurniawan



14:00 ▶ 14:10



Welcome Speech

Prof. Yasushi Kosugi

Director, Asia-Japan Research Institute, Ritsumeikan University



Registration

<https://is.gd/HMWYdC>

Presentation

1

14:10 ▶ 14:35

Heavy Metal Contamination in Urban River Sediments of the Philippines: Baseline Risk Assessment Supporting Nature-Based Remediation Strategies

Abu Bakar Siddique

Research Assistant, Institute of Tropical Ecology and Environmental Science Visayas State University, Philippines

Presentation

2

14:35 ▶ 15:00

Unlocking the Potential of Microbial and Natural Wetlands for Heavy Metal Assessment in Aquatic Environment

Abd Aziz Amin

PhD Candidate, Ritsumeikan University, Japan

Presentation

3

15:00 ▶ 15:25

Zero Waste Approaches in Removing Arsenic from Water Environment Using Iron-Coated Pomelo Peel Adsorbent: The Adsorption Performance and Waste Generated Management

Nguyen Thi Hai

Lecturer, University of Science, Vietnam National University, Vietnam

Presentation

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15:25 ▶ 15:50

Removal of Pollutants from Groundwater with Natural Bioadsorbents (Lemon Peel and Peanut Peel Charcoal)

Shaibur Rahman Molla

Professor, Jashore University of Science and Technology, Bangladesh

15:50 ▶ 16:05



Break

Presentation

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16:05 ▶ 16:30

Nature-Based Green Infrastructure for Heavy Metal Reduction

Marla C. Maniquiz-Redillas

Professor, De La Salle University, Manila, Philippines

Presentation

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16:30 ▶ 16:55

Biofilm Matrices as Living Platforms for Heavy Metal Biosorption and Time-Integrated Pollution Biomonitoring in Aquatic Ecosystems

Andi Kurniawan

Professor, Brawijaya University, Indonesia

Presentation

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16:55 ▶ 17:20

Eco-Friendly Approaches to Heavy Metal Removal Using Constructed Wetlands

Nguyen Thi Thuong

Senior Researcher, Asia-Japan Research Institute, Ritsumeikan University

17:20 ▶ 17:30



Closing Remarks

Prof. Satoshi Soda

College of Science and Engineering, Ritsumeikan University



Nguyen Thi Thuong

Moderator



Organized by:

**Asia-Japan Research Institute (AJI),
Ritsumeikan University, Japan**

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