

Report of 221st TCU-ARL Seminar

The 221st Tokyo City University Advanced Research Laboratories seminar was held. The main topic was infrastructure maintenance technology, hosted by Advanced Retrofit Technology International Center.

Date and time : 14:00 – 16:10 August 26(Mon.), 2024

Venue : Class 224 in Building #10 (PBL room), Setagaya campus, Tokyo City University

The number of participants : 59 from Tokyo City University and De La Salle University, the Philippines

Program

- 14:00 – 14:05 Opening Remarks,
Hidehiko Sekiya (Tokyo City University)
- 14:05 – 14:25 Analytical study on stress concentration zone of aseismic
reinforced deck type arch bridge, Mirei Ouchi (Tokyo City University)
- 14:25 – 14:45 Performance of Seawater-derived Mg(OH)₂ as a Sustainable
Coating Solution for Hydrogen Sulfide-induced Corrosion Mitigation
in Concrete Pipes by Co, Coo and Moa (De La Salle University)
- 15:00 – 15:20 Parametric study of BWIM considering autocorrelation in bridge dynamic response,
Kohei Maruyama (Tokyo City University)
- 15:20 – 15:40 The Use of Mechanical Impedance Test for Detecting Internal
Cracks in Concrete Slabs by Su (De La Salle University)
- 15:40 – 16:00 FE model and verification as digital twin of structural behavior for
infrastructure maintenance, Hiromi Shirahata (Tokyo City University)
- 16:00 – 16:10 Closing Remarks,
Osamu Maruyama (Tokyo City University)

More than 40 senior or graduate students joined the seminar from De La Salle University that is one of the overseas partner universities of TCU,



Opening remarks by Prof. Sekiya by Tagalog.



First topic by Ouchi, seismic retrofiting.



Second topic by Coo and Moa, concrete coating against corrosion



Fourth topic by Su, hammering test of concrete

221st TCU-ARL Seminar

International Workshop on Infrastructure Maintenance Technology

Advanced Retrofit Technology International Center, Tokyo City University

This workshop provides and shares experiences and the latest findings that contribute to the advance of civil engineering for maintenance technology.

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Venue : Class 224 in Building #10 (PBL room), Setagaya campus, Tokyo City University
and Zoom (invitation link will be sent after registration)

Registration for participation :

If you would like to participate, please e-mail at artic@tcu.ac.jp with the following information.

1) your name, 2) your affiliation, 3) e-mail address

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- 14:05 – 14:25 Analytical study on stress concentration zone of aseismic
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Coating Solution for Hydrogen Sulfide-induced Corrosion Mitigation
in Concrete Pipes by Co, Coo and Moa (De La Salle University)
- 14:45 – 15:00 Break
- 15:00 – 15:20 Parametric study of BWIM considering autocorrelation in bridge
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- 15:20 – 15:40 The Use of Mechanical Impedance Test for Detecting Internal
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- 16:00 – 16:10 Closing Remarks,
Osamu Maruyama (Tokyo City University)
Each presentation will be 14-minute talk and 4-minute discussion.

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