

Where: Kyoto University  
Katsura Campus  
Innovation Plaza 1F  
Conference Hall

When: 2023 Sep. 1 (Friday)  
10:45 – 20:00

Language: English

Contact: Assoc. Prof.  
Yoshihiro MIZUTANI  
(Tokyo Institute of Technology)  
mizutani.y.aa@m.titech.ac.jp

Please register until **2023 Aug. 14** using the  
following link or QR Code\*:

Link: <https://onl.sc/TppnK1X>



\* The maximum number of  
participants is limited to 30

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DWIIH Tokyo

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# Open Seminar

## Recent Research in Non-Destructive Testing of Infrastructure and Machinery

# Program

## Introduction

- 10:45 – 11:15 Overview of Research at ITIL  
(Prof. Tomoki Shiotani, Kyoto University)
- 11:15 – 11:45 Overview of Research at IMA  
(Dr.-Ing. Al-Natsheh, TUBS)

## Adhesive Joints of Structures

- 11:45 – 12:15 Static and fatigue mode I crack  
growth behaviors of structural  
polyurethane adhesive  
(Dr. Kimiyoshi Naito, NIMS)

## 12:15 – 13:15 Lunch time

## Digital Transformation & Structural Health Monitoring of Infrastructure and Machinery

- 13:15 – 13:45 Axial stress estimation with fiber  
optics installed CFRP bearing plate  
of ground anchor and demonstration  
of BIM/CIM model of slope  
(Dr. Ribeiro Bruno, Kyoto  
University)
- 13:45 – 14:15 Life Cycle Management of machine  
components with ANN aided  
integrated Sensors  
(Dr.-Ing. C.Pommer, TUBS)
- 14:15 – 14:45 Coffee Break

# Program

## Non-Destructive Evaluation Techniques for Infrastructure

- 14:45 – 15:15 Evaluation of concrete bridge deck  
damage by Acoustic Emission  
aided with AI  
(Prof. Hisafumi Asaue, Kyoto  
University)
- 15:15 – 15:45 Strain Measurement and Damage  
Detection using Pultruded  
Piezoresistive UD-CFRP  
Reinforcement and possible  
Applications  
(M.Sc. Luthardt, TUBS/Tokyo Tech)
- 15:45 – 16:00 Coffee Break
- 16:00 – 17:00 Open Discussion
- 17:00 - 18:00 Move to reception site
- 18:00 – 20:00 **Reception & Networking**

## Technical Tour on Saturday (September 2) \* For Attendees from Germany

- 9:00 – 17:30 Technical Tour Kyoto
- 17:30 – 18:30 Meeting about a seminar to be held in  
Germany.