

Program

(tentative 5/16, 2013)

Tuesday, September 17

9:00-9:30 *Coffee Break*

9:30-9:40 **Opening Address**

9:40-11:50 **Session 1: Concrete Fracture and Related NDT-1**

Chair : Tomoki Shiotani

- Keynote Lecture* 9:40-10:10 Overview of Nondestructive Testing Techniques for the Observation of Healing Effects in Cementitious Materials Christian U. Grosse, F. Malm, K. van Tittelboom and N. de Belie (Germany)
- 10:10-10:30 Evaluation of Cracking Behavior due to Rebar Corrosion by UT Takeshi Watanabe, H. T. T. Huyen and C. Hashimoto (Japan)
- 10:30-10:50 Damage Evaluation of Reinforced Concrete Slab by Elastic-Wave Tomography Kentaro Ohno, K. Uji and A. Ueno (Japan)
- 10:50-11:10 Study on Cracking and Ultimate Strength of RC Bridge Piers related with Failure Mechanisms caused by the Torsional Effects of the Earthquake Ryohei Yanagida, S. Ichimaru and T. Okamoto (Japan)
- 11:10-11:30 Reduction of Radioactive Concrete Waste using Pulsed Power Eva Arifi, K. Ishimatsu, S. Iizasa, T. Namihira and M. Shigeishi (Japan)
- 11:30-11:50 Dynamic Fracture in Concrete generated by Impulsive Electric Discharge Koji Uenishi, H. Yamaci, K. Yamagami and S. Sakurai (Japan)

11:50-13:30 *Lunch Break*

13:30-15:00 **Session 2: Acoustic Emission in Concrete-1**

Chair : Christian Grosse

- Keynote Lecture* 13:30-14:00 Residual Factors of Safety of Bridge Components using Acoustic Emission Michael C. Forde (United Kingdom)
- 14:00-14:20 Acoustic Emission Detection and Evaluation of Crack Opening and Healing by use of Embedded Capsules and Recovery of Cracking Damage in Concrete Eleni Tsangouri, K. van Tittelboom, D. G. Aggelis and D. van Hemelrijck (Belgium)
- 14:20-14:40 Use of Acoustic Emission and Image Analysis for Damage Evaluation of Freeze-Thawed Concrete in Core Test Tetsuya Suzuki, S. Yamagishi, M. Ohtsu, T. Morii and T. KJawai (Japan)
- 14:40-15:00 *Integrated Non-Destructive Assessment of Reinforced Concrete under Flexure by AE and Travel-Time Tomography* Chai H. K., Behnia, A. Yorikawa, M. Momoki, S. and Terazawa, M. (Malaysia)

15:00-15:30 *Coffee Break*

15:30-17:00 **Session 3: Acoustic Emission in Concrete-2**

Chair : Masayasu Ohtsu

- 15:30-15:50 Monitoring of Fracture in Fire-damaged Concrete using Acoustic Emission Dimitrios G. Aggelis, A. C. Mpalaskas and T. E. Matikas (Belgium)
- 15:50-16:10 Fracture Mechanisms of RC Members subjected to Torsion-Bending Shear by Acoustic Emission Yu Ogawa, Y. Kawasaki and T. Okamoto (Japan)
- 16:10-16:40 Evaluation of Seismic Capacity for RC Specimen damaged from Rebar Corrosion by Acoustic Emission Yuma Kawasaki, S. Wasada, T. Okamoto and K. Izuno (Japan)

18:00-20:00 *Buffet Party*

Wednesday, September 18

9:00-9:30 *Coffee Break*

9:30-11:20 **Session 4: Concrete Fracture and Related NDT-2**

Chair : Michael Forde

- Keynote Lecture* 9:30-10:00 Assessment of Infrastructures by means of Elastic Wave Approach Tomoki Shiotani, Y. Takada, S. Momoki and Y. Kobayashi (Japan)
- 10:00-10:20 Identification of Cracking Mechanism between CFRP and Concrete in Shear-Strengthened RC Beams by AE-SiGMA Procedure Ninel Alver, M. Tanarlan, E. Ercan, M. Karcili and O. Sulun (Turkey)
- 10:20-10:40 Development of Input-Out-Put System in SIBIE Procedure based on Ultrasonic-Echo Takahiro Sonoda, S. Aramaki, K. Matsuyama and T. Fujiwara (Japan)
- 10:40-11:00** Imaging Defects in Concrete Structures using Accumulated SIBIE Sanghun Lee, T. Kamada, S. Uchida and D. Linzell (Japan)

11:20-11:30 **Closing**

RILEM TC 239-MCM

13:00-15:00 **The 6th Meeting of RILEM TC 239-MCM**

Chair : Masayasu Ohtsu