

## Day 1 November 24 (Fri.), 2023

9:30	Opening Session
9:40	Yoichi SHIOMI, President of the Japanese Society of Experimental Mechanics, Ryukoku University, Japan
Time to prepare to start the session 9:40-9:45 (5 min)	
9:45	Session 1-1 Solid/Structural Mechanics and Related Topics 1 Chairpersons: Yuichi ONO (Tottori University) On-site, Koichi KOBAYASHI (Niigata University) Online
	O001 (A006) Online Non-Contact Detection of Model Leakage during Water Hammer in Pipeline Using Digital Image Correlation Taiki HAGIWARA (Niigata University), Toma TSUBOTA, and Tetsuya SUZUKI
	O002 (A026) Online Anisotropic Post-Necking Characterization of Aluminum Alloy 2024-T3 Sheet Type Specimen Slim DJEBIEN (Nagoya Institute of Technology), Masahiro NISHIDA, Stefan MARTH, and Hans-Åke HÄGGBLAD
	O003 (A002) On-site Effect of Clay Content on the Automatic Detection of Soil Failure Patterns During Bucket Excavation Naoya YAGUCHI (Tohoku University), Xiaodong LIU, Tomoaki SATOMI, and Hiroshi TAKAHASHI
	O004 (A011) On-site Identification Method of Crack Tip Position of Dissimilar Material Interface using Displacement Data by DIC Kenshin KOJIKI (Meiji University), Shun HATTORI, Shuichi ARIKAWA
11:05	
Short break 11:05 - 11:20 (15 min)	
11:20	Plenary Lecture Chairperson: Ei YAMAMOTO (Kindai University) On-site
	PL001 On-site Carlos Rolando Rios Soberanis (Yucatan Scientific Research Center, Mexico)
12:00	Title: Examining the Sound of Materials: Application of Acoustic Emission Technique for Evaluating Material Structural Integrity
Lunch break 12:00 - 13:00 (60 min)	
13:00	Session 1-2 Thermal/Fluid Mechanics and Related Topics 1 Chairpersons: Tatsuro WAKIMOTO (Osaka Metropolitan University) On-site, Yohsuke TANAKA (Kyoto Institute of Technology) On-site
	O005 (A004) Online Fluid Resistance on Truck Models in a Line Daichi IGARASHI (University of Tsukuba) and Hideaki MONJI
	O006 (A001) On-site Evaluation of Relationship Between Force Information Acting on Sludge Removal Mechanism and Liquid Index of Sludge Riku FUNAKI (Tohoku University), Tomoaki SATOMI, and Hiroshi TAKAHASHI
	O007 (A055) On-site Interaction of Vortex Rings Produced by Quadruple Synthetic Jet Actuator Hiroaki SAKAMAKI (Utsunomiya University) and Hiroaki HASEGAWA
	O008 (A056) On-site Visualization of Microalgae Sedimentation Caused by Water-Wheel Rotation in a Closed Surface Raceway Pond Kaito MORINO (Setsunan University), Yoshiaki UEDA, Yusuke SAKAI, and Ryunosuke OSAKA
14:20	
Sort break 14:20 - 14:35 (15 min)	
14:35	Session 1-3 Solid/Structural Mechanics and Related Topics 2 Chairpersons: Ichiro SHIMIZU (Okayama University of Science) On-site, Jonas Aditya PRAMUDITA (Nihon University) Online
	O009 (A023) Online Detection of Water Leakage in Service Pipeline by Digital Image Correlation Method with Short-Time Fourier Transform Toma TSUBOTA (Niigata University), Taiki HAGIWARA, Yohei ASADA, and Tetsuya SUZUKI
	O010 (A003) On-site Effect of Clay Content on Force Information in Blade Excavation Ryohei SUZUKI (Tohoku University), Xiaodong LIU, Tomoaki SATOMI, and Hiroshi TAKAHASHI
	O011 (A013) On-site Effect of the Stress Component of Ultrasonic Vibration on Edge Dislocation of Bcc Fe Using Molecular Dynamics Akari ASAZUMA (Meiji University), Yudai YUBA, and Shuichi ARIKAWA
	O012 (A020) On-site Identifying Viscoelastic Constitutive Parameters Using the Stress Sensitivity Based Virtual Fields Method Dingsi SUN (Aoyama Gakuin University), Keisuke IIZUKA, and Satoru YONEYAMA
15:55	
Short break 15:55 - 16:10 (15 min)	
16:10	Session 1-4 Thermal/Fluid Mechanics and Related Topics 2 Chairpersons: Yoichi SHIOMI (Ryukoku University) On-site, Toshinori MAKUTA (Yamagata University) Online
	O013 (A008) Online Optical Inner Diameter Measurement for Micro Flowrate Meter ChaoChun CHANG (University of Tsukuba) and Hideaki MONJI
	O014 (A057) On-site Effect of Synthetic Jets on Drag Reduction of an Ahmed Body Mitsuki TAKAHASHI (Utsunomiya University), Naoto KATO, and Hiroaki HASEGAWA
	O015 (A032) On-site Experimental and Numerical Study of Three-Dimensional Pitching Airfoil in Periodic Flow Hiroki TANAKA (Kyoto Institute of Technology), Yoshitaka ISODA, and Yohsuke TANAKA
17:10	
Short break 17:10 - 17:25 (15 min)	
17:25	Session 1-5 Solid/Structural Mechanics and Related Topics 3 Chairpersons: Satoru YONEYAMA (Aoyama Gakuin University) On-site, Junji NODA (Kindai University) Online
	O016 (A041) On-site Study on Correlation Between Pressure Time-Response and Cavitation Damage Yusuke NAKAZONO (Ibaraki University), Hiroyuki KAWASHIMA, Hiroyuki KOGAWA, Nobuatsu TANAKA, and Masatoshi FUTAKAWA
	O017 (A005) On-site Estimation of Spalling Depth and Thickness for Reinforced Concrete by Heat Balance Method Including Shadow Effect Kazuma SHIBANO (Niigata University), Taiki HAGIWARA, Masaomi KIMURA, and Tetsuya SUZUKI
	O018 (A029) On-site Effect of Heat Treatment Conditions on Torsional Properties of SKD61 Friction Welded Joints Shogo ZUSHI (Tottori University), Yuichi ONO, and Ryosuke NISHI
	O019 (A034) On-site Study on Dynamic Fracture Toughness of Interface Crack of Bonded Dissimilar Materials Using Digital Image Correlation Method Shun HATTORI (Meiji University), Kenshin KOJIKI, and Shuichi ARIKAWA
18:45	