

Globalization in Joining Technology and Materials Science -Enhancing Collaboration Network in Greater Asia Region-

Day & Time : Wednesday 14, October, 2015 9:00-17:00

Host : Joining and Welding Research Institute, Osaka University

Location & Venue : Arata Memorial Hall, JWRI Osaka University (No registration Fee)

<http://www.jwri.osaka-u.ac.jp/en/access.html>

Overview

Joining and Welding Research Institute in Osaka University has been working on strengthening the networks with top level universities and research institutes in Greater Asia Region since 2012. Since Greater Asia Region holds high potentials in various aspects, establishing the collaborations among partners would contribute not only to the development of academic fields, but also to the innovations and development of related industries in the region.

This time, JWRI Osaka University is glad to announce you the opening of International Symposium at JWRI in October, 2015. In this Symposium, we expect to exchange various information regarding recent researches as well as the global activities in each universities and institutes. Through this symposium, we hope to strengthen ties among partners in the region and also to discuss further possibilities in collaboration with industries.

Key Note & Invited Speakers

Key Note Speaker: Korea Advanced Institute of Science and Technology (KAIST) (Korea)

Invited Speakers: Tsing Hua University, City University of Hong Kong (China), Far Eastern Federal University (Russia), Istanbul Technological University (Turkey), King Mongkut University of Technology Thonburi, National Metal and Materials Technology Center (MTEC), Chulalongkorn University (Thailand), Malaya University (Malaysia), Indian Institute of Technology Hyderabad (India), National Taiwan University (Taiwan), Nanyang Technological University (Singapore)

Registration

Please register from: <http://www.jwri.osaka-u.ac.jp/index.jsp>

By Thursday, 1, October, 2015

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Program
International Symposium
Globalization in Joining Technology and Materials Science –Enhancing Collaboration Network in Greater Asia Region–

Date: October 14, 2015

Venue: Arata Memorial Hall, Joining and Welding Research Institute (JWRI), Osaka University

Time	Speaker
Opening: Chairman	Prof. Katsuyoshi Kondoh
9:30-9:40	Opening Note Prof. TANAKA, Manabu Director, Joining and Welding Research Institute, Osaka University
9:40-10:15	<u>Key Note Speech</u> "Heat and mass flow in materials welding and its application to mechanical analysis of welded structures" Prof. NA, Suck-Joo Professor, Department of Mechanical Engineering, Korea Advanced Institute of Science and Technology (KAIST)
Session 1: Chairman	Prof. Kazuhiro Ito
10:15-10:40	"The effects of pulsed-current treatment on the properties of metallic glasses and other engineering alloys" Prof. SHEK, Chan Hung Professor, Department of Physics and Materials Science, City University of Hong Kong
10:40-11:05	"An Investigation into Ultimate Strength of Stiffened Ship Panels" Prof. ERGIN, Ahmet Professor, Dean of Faculty of Naval Architecture and Ocean Engineering, Istanbul Technical University
11:05-11:30	"Effect of Mo on Wear Resistance of Cr-Nb Hardfaced S355JR Steel" Prof. LOTHONGKUM, Gobboon Professor, Head of Department of Metallurgical Engineering, Faculty of Engineering, Chulalongkorn University
11:30-13:00	Lunch
Session 2: Chairman	Assoc. Prof. Seiichiro Tsutsumi
13:00-13:25	"Engineering Tool for Rough Estimation of Fatigue Life Based on Simulation of Welding Residual Stress" Prof. MURAKAWA, Hidekazu Professor, Joining and Welding Research Institute, Osaka University
13:25-13:50	"Laser Cladding Residual Stress and Fatigue Analysis" Assoc. Prof. PANG, Hock Lye John Associate Professor, School of Mechanical and Aerospace Engineering Nanyang Technological University
13:50-14:15	"Numerical Simulation for Understanding Stress-Strain Distribution in Stainless Steel Welds" Dr. VIYANIT, Ekkarut Senior researcher, Materials Reliability Research Unit National Metal and Materials Technology Center (MTEC)
14:15-14:25	Break
Session 3: Chairman	Assoc. Prof. Hiroshi Nishikawa
14:25-14:50	"Bonding Copper to Ceramics" Prof. TUAN, Wei-Hsing Distinguished Professor, Department of Materials Science and Engineering, National Taiwan University
14:40-15:15	"Technology and Mechanism of Low Temperature Transient Liquid Phase Bonding" Prof. WU, Aiping Professor, Department of Mechanical Engineering, Tsinghua University
15:15-15:40	"Metallic Nanoparticle Doped Tin Based Solders: Interfacial Intermetallic Characteristics and Fracture Behaviour" Prof. HASEEB, A S Md Abdul Professor, Dean, Innovative Technology Research Cluster, Department of Mechanical Engineering, Faculty of Engineering, University of Malaya
15:40-15:50	Break
Session 4: Chairman	Assoc. Prof. Yosuke Kawahito
15:50-16:15	"Thermo-mechanical Modelling of Arc Welding" Assis.Prof. CHINTHAPENTHA, Viswanath R Assistant Professor, Department of Mechanical and Aerospace Engineering, Indian Institute of Technology Hyderabad
16:15-16:40	"Accelerated Creep Rupture Test on Dissimilar Joining of T22 and T91 Steel" Asst. Prof. PHUNG-ON, Isaratat Research Scientist, Maintenance Technology Center Institute for Scientific & Technological Research & Services (ISTRIS) King Mongkut's University of Technology Thonburi
16:40-16:50	Closing Note and Group Picture Prof. KONDOH, Katsuyoshi Professor, Joining and Welding Research Institute, Osaka University