

# Japan-Korea CFD Workshop 2013

in 27th Symposium of Computational Fluid Dynamics, The Japan Society of Fluid Mechanics (JSFM)

cooperated by Korean Society for Computational Fluids Engineering (KSCFE)

**December 17-18, 2013**

Toyota Auditorium & Symposion, Nagoya University, Nagoya, Aichi, Japan

Theme: Open source computational fluid dynamics code

Afternoon of December 17 (Tue)

14:00-15:30 **JKWS (1)**

Chair: M. Watanabe

(15min)	Opening address President of JSFM President of KSCFE	Kazuo Aoki Hyon Kook Myong	Kyoto University Koomin University
(15min)	Overview of 27th Symposium on Computational Fluid Dynamics	Katsuya Ishii	Nagoya University
(30min)	Improved accuracy and stability with NUFLEX - a flow solver for unstructured meshes with arbitrary shapes	*Seongwon Kang Nahmkeon Hur	Sogang University
(30min)	What is needed for development of open-source CAE software?	Nobuyuki Oshima	Hokkaido University

15:40-17:10 **JKWS (2)**

Chair: H. K. Myong

(30min)	Development of an Open-Source Library-based CFD Code and its Application for Naval Hydrodynamics	Sunho Park *Shin Hyung Rhee	Korea Maritime & Ocean University Seoul National University
(30min)	OpenFOAM(R) CFD Toolbox: current features and future perspectives	Masashi Imano	OCAEL Co. Ltd.,
(30min)	Development of Multi-Scale CMFD Code, CUPID for Two-Phase Thermal-Hydraulics on Nuclear Reactor Safety Analysis	*Jae Ryong Lee Ik Kyu Park Seung Jun Lee Yun Je Cho Han Young Yoon	Korea Atomic Energy Research Institute

Morning of December 18 (Wed)

9:10-10:40 **JKWS (3)**

Chair: M. Watanabe

(30min)	Introduction of open computational tool for soft materials OCTA	Takeshi Aoyagi	Asahi Kasei Corporation
(30min)	Surface Paneling Program for Efficient Panel Method Application	Gyungnam Kim Suk Chang *Byoungsoo Kim	Chungnam National University Lotus Technologies, Inc Chungnam National University
(30min)	Smooth profile method for direct numerical simulations of colloidal dispersions	*John Molina Ryoichi Yamamoto	Kyoto University

10:50-11:50 **JKWS (4)**

Chair: B. Kim

(30min)	Unstructured Navier-Stokes Solver PowerCFD with Pre-/Post-Processor for Aero-Thermal Analysis	Hyon Kook Myong	Kookmin University
(30min)	Industrial applications of very-large-scale LES by using FrontFlow/blue	Chisachi Kato	The University of Tokyo