

## Japan-Korea CFD workshop 2019 Program



**Nov. 26<sup>th</sup> (Tue), 2019**

**15:00-17:10 1st session** Co-Chair by Chongam Kim, Nobuyuki Oshima

Opening Remark

**Nobuyuki Oshima**, (Hokkaido University)

Decomposition of flow and sound fields by using wavenumber frequency analysis

\***Akiyoshi Iida** (Toyohashi Univ. of Technology), Chisachi Kato (Univ. of Tokyo)

Direct Reconstruction Method for Discontinuous Galerkin Approximation on Higher-order Mixed-Curved Meshes

\***Chongam Kim** and H.You (Seoul National University)

Large Eddy Simulation of Flow and Heat Transfer of Gas Turbine Blade

\***Joon Ahn**, (Kookmin University)

Numerical investigation of flow control using coaxial type dielectric barrier discharge plasma actuator: induced jet, circular disk flow, and flow morphing

\***Hikaru Aono**, Shinji Honami, Hitoshi Ishikawa (Tokyo University of Science)

**18:00-** welcome dinner

**Nov. 27<sup>th</sup> (Wed), 2019**

**9:10-10:40 2nd session** Co-Chair by Chongam Kim, Nobuyuki Oshima

Adaptation measures for extreme floods using huge ensemble of high-resolution climate model simulation in Japan

\***Tomohito Yamada** and T.Hoshino (Hokkaido University)

A Godunov method using Baer-Nunziato equations for compressible two-phase flows

\***Bokjik Lee** (Seoul National University)

Toward high-fidelity large-eddy simulation of liquid rocket combustors using flux-reconstruction method

\***Takanori Haga**, Taro Shimizu (Japan Aerospace Exploration Agency (JAXA))

Break time

**10:50-12:00 3rd session** Co-Chair by Chongam Kim, Nobuyuki Oshima

Computation of PANS and RANS Models for Flows around a Marine Propeller

\* Woochan Seok (Seoul National University), Sangbong Lee (Dong-A University) and **Shin Hyung Rhee** (Seoul National University)

Numerical simulation of vapor bubble collapse with a small amount of non-condensable gas based on molecular gas dynamics

\***Kazumichi Kobayashi** (Hokkaido University)

Closing Remark

**Chongam Kim**, (Seoul National University)

**12:30-** luncheon meeting

All workshop participants are invited to a domestic symposium (27<sup>th</sup> ~ 29<sup>th</sup>) and its joint banquet in the evening on 28<sup>th</sup> (Thu).

## Access information

Workshop place : Hokkaido university Sapporo campus  
Frontier Research in Applied Sciences Bld.



Official instruction by Hokkaido univ.

<https://www.global.hokudai.ac.jp/about/access-maps/sapporo-campus-map/>