

## Japanese-German Seminar on Molecular Imaging Technology for Interdisciplinary Research (Special Workshop for GCOE Students)

Organized and Sponsored by Tohoku University of Global COE Program "World Center of Education and Research for Trans-disciplinary Flow Dynamics"

Dates: Feb.21 (Tue) - Feb. 24 (Fri), 2012

Workshop Venue: Aoba Memorial Hall, Tohoku University, Sendai, Japan  
<http://www.eng.tohoku.ac.jp/english/map/?menu=campus&area=c&build=03>

Organizer:

Prof. Keisuke Asai (Department of Aerospace Engineering, Tohoku University)

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Registration: The workshop is free of charge but a registration is mandatory. ([asai@aero.mech.tohoku.ac.jp](mailto:asai@aero.mech.tohoku.ac.jp)).

### Program (tentative)

#### Feb. 21 (Tue)

(p.m.)

13:00 Welcome, Facility Tour

#### Feb. 22 (Wed)

(a.m.)

9:30 Opening, Prof. Keisuke Asai (Tohoku University)

9:40-10:40 "Principle of PSP - General overview"

Dr. Rolf H. Engler (Former Leader of PSP team at DLR, Germany)

10:50-11:50 "Principles and Theory of PSP"

Dr. Youssef Mebarki (Institute of Aerospace Research, Canada)

(p.m.)

13:30-14:20 "Overview of Research Activities at Tohoku Univ."

Prof. Keisuke Asai (Tohoku University, Japan)

14:30-15:20 "Overview of Research Activities at JAXA"

Mr. Kazuyuki Nakakita (JAXA, Japan)

15:50-16:30 "Molecular Sensor(T.B.D.)"

Prof. Yutaka Amao (Oita University, Japan)

Feb. 23 (Thu)

(a.m.)

9:30 - 12:00 Student presentation

Lunch party

(p.m.)

13:00-14:00 "PSP Developments at NRC, Canada"

Dr. Youssef Mebarki (Institute of Aerospace Research, Canada)

14:10-15:00 "Camera and illumination systems"

Dr. Rolf H. Engler (Former Leader of PSP team at DLR, Germany)

15:20-16:10 "Anodized-Aluminum PSP"

Dr. Hirotaka Sakaue (JAXA, Japan)

16:10-17:00 "Temperature-Sensitive Paint"

Prof. Yasuhiro Egami (Aichi Institute of Technology, Japan)

(evening)

Workshop reception

Feb. 24 (Fri)

(a.m.)

9:30-12:00 Open Discussions on specific topics

- Unsteady measurement
- Temperature/illumination correction
- Lifetime imaging
- etc.

Wrap up

Closing

For further information,

please contact Prof. Keisuke Asai at [asai@aero.mech.tohoku.ac.jp](mailto:asai@aero.mech.tohoku.ac.jp)