

**Strategic Young Researcher Overseas Visits Program for Accelerating Brain Circulation  
(Brain-Circulation Program)  
Supported by JSPS (Japan Society for the Promotion of Science)  
Research Seminar in Trondheim, Norway**

Date & Time : May 16, 2014 (Friday) 10:00 – 16:40  
Place (Venue) : Norwegian University of Science and Technology (NTNU)  
Lecture Room T6

**Technical Program**

**May 16 (Friday)**

- 10:00~10:10 Opening Address  
Masashi Kashiwagi (Osaka University)
- 10:10~10:30 Introduction of 'Brain-Circulation' Program and Interim Report of Activities  
Masashi Kashiwagi (Osaka University)
- 10:30~11:00 Report on Ongoing Research and Future Plan:  
Development of prediction method of welding deformation and residual stress  
using Idealized Explicit FEM and its application to ship structure  
Kazuki Ikushima (Osaka Prefecture University)
- 11:00~11:30 Report on Ongoing Research and Future Plan:  
Mutual Evaluation of Seekeeping Theory with Propulsion Characteristics in Rough  
Seaway -- Consideration of Future Weather Routing Algorithm --  
Kenji Sasa (Kobe University, International Maritime Research Center)
- 11:30~12:00 Report on Ongoing Research and Future Plan:  
1) Planning of experiment at NTNU, 2) Development of a numerical scheme for  
Fluid-Structure Interaction problem on slender structures  
Hidetaka Senga (Osaka University)

(Lunch)

- 13:30~14:00 Report on Ongoing Research and Future Plan:  
1) Investigation of ship flooding situations by MPS and SPH methods compared to  
dedicated experiments, 2) Development of a coupled MPS-FEM model for the analysis of  
violent flow-structure interaction  
Hirotada Hashimoto (Kobe University)
- 14:00~14:30 Report on Ongoing Research and Future Plan:  
Collaborations with ECN and NTNU on behavior of large deformable structures under  
extreme loads  
Kazuhiro Iijima (Osaka University)
- 14:30~15:00 Invited Presentation from NTNU:  
Research on Slender Marine Structures at Department of Marine Technology  
Carl Martin Larsen (Norwegian University of Science and Technology)

(Coffee Break)

- 15:30~16:00 Introduction of Topics from Recent Research, Future Plan  
Eiichi Kobayashi (Kobe University)
- 16:00~16:30 Introduction of Topics from Recent Research, Future Plan  
Masahiko Fujikubo (Osaka University)
- 16:30~16:40 Summary, Future Plan, Closing Remarks  
Masashi Kashiwagi (Osaka University)

(Adjournment)

Home Page of Brain-Circulation Program:

<http://www.naoe.eng.osaka-u.ac.jp/kashi/JSPS-Brain/eng/index.html>