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Ice Sheet Dynamics Model Workshop

Date

10/09/2018 - 10/12/2018

Location

NIMS

Ice Sheet Dynamics Model Workshop

Workshop program(tentative)

1. Title: Ice Sheet Dynamics Model Workshops
2. Date & time: 9 Oct. – 12 Oct. 2018
3. Venue: NIMS CAMP
4. Workshop Webpage: <https://camp.nims.re.kr/activities/eventpages/?id=207839&action=overview>

5. Aim & Scope: We organize this workshop to fulfill the followings:

- To better understand and implement the ice sheet dynamics models like ISSM and PISM,
- To refine the ice sheet models more efficiently, and
- To discuss the recent topics related to implementation and development of the models.

6. Speakers(tentative)

- PISM: Andy Aschwanden, Constantine Khroulev (U. of Alaska), (Ricarda Winkelmann(PIK))
- ISSM: Eric Larour, Surendra Adhikari(NASA/JPL), Mathieu Morlighem(UCI)
- NIMS: Dong-Uk Hwang, Yeontaek Choi
- KOPRI: Emilia Kyung Jin/(Won-Sang Lee)
- Dong-A Univ.: Young-sam Kwon

7. Time schedule

- 9 Oct. 2018, Tuesday (Korea National Holiday)
 - 10:00 – 10:30 Registration
 - 10:30 – 11:30 Special Talk (Young-sam Kwon, Dong-A Univ.) “Mathematical & Numerical topics of Ice Sheet dynamics”
 - 11:30 – 12:30 Lunch
 - 12:30 – 17:30 Social Program
 - 17:30 – 19:30 Discussion and Dinner “Present and Future Hot topics on Ice Flow Dynamics”

- 10 Oct. 2018, Wednesday

- 09:30 – 09:50 Registration
- 09:50 – 10:00 Opening remarks (NIMS president)
- 10:00 – 10:30 Division Mission (Dong-Uk Hwang, NIMS)
- 10:30 - 11:00 Ice Sheet Dynamics Team Mission (Yeontaek Choi, NIMS)
- 11:00 – 11:30 Collaboration with KOPRI (Emilia Kyung Jin, KOPRI) “Improving Future Projections of Antarctica: Observations and Modeling”
- 11:30 – 12:00 Introduction to participants (Tentative)
- 12:00 – 14:00 Lunch
- 14:00 – 14:30 PISM Session 1 (Andy Aschwanden, Geophysical Inst., Univ. of Alaska) “Introduction into ice sheet flow”
- 14:30 – 15:40 PISM Session 2 (Andy Aschwanden, Geophysical Inst., Univ. of Alaska) “The Parallel Ice Sheet Model (PISM)”
- 15:40 – 16:00 Break
- 16:00 – 15:40 PISM Session 3 (Constantine Khroulev, Geophysical Inst., Univ. of Alaska) “PISM: What it does and how it does it”
- 18:00 – 20:00 Banquet

- 11 Oct. 2018, Thursday

- 09:00 – 10:40 PISM Session 4 (Constantine Khroulev, Geophysical Inst., Univ. of Alaska) “Customizing and extending PISM”
- 10:40 – 11:00 Break
- 11:00 - 12:40 ISSM Session 1 (Eric Larour, NASA JPL) “ISSM Introduction and Capabilities: a Quick Start”

- 12:40 – 14:30 Lunch
- 14:30 – 16:10 ISSM Session 2 (Mathieu Morlighem, Univ. of California Irvine) “Pine Island Glacier: a simulation and experiments”
- 16:10 – 16:30 Break
- 16:30 – 18:10 ISSM Session 3 (Surendra Adhikari, NASA JPL) “Sea-level in South Korea due to global cryospheric changes”
- 18:10 – 20:00 Dinner

○ 12 Oct. 2018, Friday

- 09:30 – 10:30 Collaboration Discussion (NIMS, KOPRI, ISSM team, PISM team)
- 10:30 – 12:00 Concluding discussion “The uncertainty mitigation in prediction of ice sheet mass change with Ice Sheet Dynamic Models”
- 12:00 – 14:00 Lunch
- 14:00 – 14:30 Dismissal

Note: In PISM sessions, the lecturer prepared a VirtualBox (<https://www.virtualbox.org>) image with PISM already installed, so that we suggest that the audience should have VirtualBox installed on their laptops, and, in ISSM sessions, the audience need Mac OS X system with Matlab installed.



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