

## Program of EGU CR5.2 « **Modelling ice sheets and glaciers** »

### **Chat Wed, 06 May, 08:30–10:15**

We have organised the session in three blocks.

We will ask the authors to give a short presentation of their work (1 or 2 sentences) and allow around 6 minutes to answer questions. We recall that the chat do not involve live presentations or streaming

At the end of each block we take few minutes to discuss general questions about the theme of the block.

The presentations will be called in the following order :

#### **Processes :**

##### **Modeling fabric development using coupled non-parametric orientation and lattice strain-energy distribution functions**

**Nicholas Rathmann**, Aslak Grindsted, Sérgio H. Faria, David A. Lilien, Christine S. Hvidberg, and Dorthe Dahl-Jensen

##### **Evolution of crystallographic preferred orientations in flowing polycrystalline ice: A continuum modelling approach validated against laboratory experiments**

**Daniel Richards**, Sam Pegler, Sandra Piazolo, and Oliver Harlen

##### **Comparing the long-term fate of a snow cave and a rigid container buried at Dome C, Antarctica**

**Julien Brondex** and Olivier Gagliardini

##### **Spontaneous Formation of Internal Shear Zone in Ice Flowing over a Topographically Variable Bed**

**Emma Weijia Liu**, Ludovic Räss, Jenny Suckale, Frédéric Herman, and Yury Podladchikov

##### **Changes to glacier friction law due to solid friction**

**Juan Pedro Roldan Blasco**, Olivier Gagliardini, Florent Gimbert, Adrien Gilbert, and Christian Vincent

#### **Large scale controls on ice sheet evolution :**

##### **Glacial cycle ice-sheet evolution controlled by ocean bed properties**

Clemens Schannwell, **Reinhard Drews**, Todd A. Ehlers, Olaf Eisen, Christoph Mayer, Mika Malinen, Emma C. Smith, and Hannes Eisermann

##### **Contrasting response of West and East Antarctic ice sheets to Glacial Isostatic Adjustment**

**Violaine Coulon**, Kevin Bulthuis, Sainan Sun, Konstanze Haubner, and Frank Pattyn

**Ice load-bedrock uplift feedback leads to self-sustained oscillations in the Greenland Ice Sheet on long time scales**

**Maria Zeitz**, Jan Haacker, and Ricarda Winkelmann

**Targeted Glacial Geoengineering through Seabed Anchored Curtains**

**Michael Wolovick**, John Moore, Rajeev Jaiman, Jasmin Jelovica, and Bowie Keefer

**Model Developments**

**Development of a numerical ice-sheet model for simulation of summit migration and dating**

**Fuyuki Saito**, Ayako Abe-Ouchi, and Takashi Obase

**FEM-modelling of ice dynamics without remeshing**

**Josefin Ahlkrona** and Daniel Elfverson

**A multi-approach skill-score procedure to optimize continental-scale ice-sheet models**

**Ilaria Tabone**, Alexander Robinson, Jorge Alvarez-Solas, Javier Blasco, Daniel Moreno, and Marisa Montoya