

# Advanced Elmer/Ice workshop

30th Nov, 1<sup>st</sup> and 2<sup>nd</sup> Dec 2015, LGGE, Grenoble, France

## Location

LGGE (main Building)  
54 rue Molière, Domaine Universitaire BP 96  
F- 38402 Saint Martin d'Hères Cedex, France

Consult the [LGGE website](#) to check how to come to Grenoble and LGGE. We recommend booking a hotel in the city centre, close to the train and bus station (arrival/departure of the bus from/for airport Lyon Saint Exupéry) and tram B line (direct to campus).

## Program

### Monday, 30 Nov 2015

8h30-9h00 Arrival of the participants at LGGE

9h00-9h30 Introduction words (OG)

9h30-10h30 Short presentation by all participants (5 minutes max each)

10h30-11h00 Coffee break

11h00-12h00 Short presentation by all participants (5 minutes max each)

12h00 Lunch

13h30-14h00 Ice rheology (anisotropy, firn, damage) (FG)

14h00-14h30 Marine ice sheet/glacier dynamics (OG)

14h30-15h00 Calving models in Elmer (TZ, JT)

15h00-15h30 Coffee break

15h30-16h00 Inverse methods (FG)

16h00-16h30 Parallel computing (Block pre-conditioner for Stokes) (TZ)

### Tuesday, 1<sup>st</sup> Dec 2015

9h00-9h30 Hydrology and friction (OG)

9h30-10h00 Programming your own solver/user functions (TZ)

10h00-10h30 Lower-order Stokes model (FG)

10h30-11h00 Coffee break

10h00-11h30 Contributing code to Elmer(/Ice) (TZ, RG)

11h30-12h00 Pre-processing (geometry, meshing) and Post-processing (TZ)

12h00 Lunch

13h30-17h30 Hands on to participants problems

Wednesday, 2<sup>nd</sup> Dec 2015

9h00-12h00 Hands on to participants problems

12h00 Lunch

13h30-16h30 Hands on to participants problems

16h30 End of the workshop

## Presenters:

Olivier Gagliardini (LGGE UGA / CNRS, Grenoble, France)

Fabien Gillet-Chaulet (LGGE UGA / CNRS, Grenoble, France)

Rupert Gladstone (VAW, ETHZ, Switzerland)

Joe Todd (SPRI, University of Cambridge, UK)

Thomas Zwinger (CSC, Espoo, Finland)

## Local organiser committee:

Olivier Gagliardini and Fabien Gillet-Chaulet (LGGE UGA / CNRS, Grenoble, France)

## Sponsors:

Labex [OSUG@2020](#)

[CSC](#)

[LGGE](#) UGA / CNRS

## Organisation:

The participation is free of charge. The participants have to organise and pay their travel and their stay in Grenoble. The labex OSUG@2020 is covering the fees for the venue and the travel costs of Thomas Zwinger. All participants should bring their own laptop with Elmer (and Elmer/Ice) and a C, C++ and Fortran 90 compilers (with emphasis on Fortran) installed on it. Installation instructions are to be found on the [Elmer/Ice wiki](#).

A virtual appliance that can be run in VirtualBox has been set up. It can be downloaded [here](#).

# List of Participants

Songtao Ai (Norwegian Polar Institute, Norway, Visitor, from Wuhan University, China) Julien  
Brondex (LGGE, Grenoble, France)  
Alex Huth (University of Washington, Seattle, USA)  
Muhammad Hafeez Jeofry (Imperial College London, UK)  
Lenneke Jong (University of Tasmania, Hobart, Australia)  
Nicolas Jourdain (LGGE, Grenoble, France)  
Marat Kashafutdinov (NTNU, Trondheim, Norway)  
Laura Kehrl (University of Washington, Seattle, USA)  
Carlo Licciulli (University of Heidelberg, Heidelberg, Germany)  
David Lilien (University of Washington, Seattle, USA)  
Rémy Mercenier (University of Zurich, Switzerland)  
Nacho Merino (LGGE, Grenoble, France)  
Martin O'Leary (Swansea University, Swansea, UK)  
Olivier Passalacqua (LGGE, Grenoble, France)  
Antonija Rimac (IMAU, Utrecht, Netherlands)  
Michael Sori (University of Arizona, USA)  
Laure Tavard (LGGE, Grenoble, France)  
Joe Todd (SPRI, University of Cambridge, UK)  
Dorothee Vallot (University of Uppsala, Sweden)  
Sharon van Geffen (IMAU, Utrecht, Netherlands)  
Tun Jan (TJ) Young (SPRI, University of Cambridge, UK)