

CADMOS HPC Course 2018

Scope

The CADMOS HPC Course 2018 provides an introduction to computational science to any scientist interested in acquiring some skills in this field for their research. In the relaxed atmosphere of Champéry, the participants will learn the basics of high performance computing through theory and practice, and explore the possibilities of computational science.

Scientific and social exchange, and the creation of links between researchers with related interests, is another important goal. A tasting event for local products from Gruyères (wine and cheese) will be organized on the second day, coached by an expert who will provide additional information and context for the products. You will be able to learn more about this part of Switzerland, and spend some good time with future colleagues.

The CADMOS HPC Course 2018 is provided as a service to scientists of the Universities of Geneva and Lausanne and the EPFL. Teaching, board, and lodging are paid by CADMOS.

Dates and Location

The event takes place in Hôtel Suisse in Champéry from the 9th to the 11th of July 2018. On Monday 9th, the event starts at 10:00 am to leave enough time for the participants to arrive.

Organizers

The event is organized by CADMOS (www.cadmos.org), represented by Jonas Latt and Jean-Luc Falcone (organizers for UniGe), Vincent Keller and Nicolas Richart (organizers for EPFL) and Philippe Jacquet (organizer for UNIL).

Participants

The event hosts up to 18 participants, which will be accommodated in single rooms. The event is open to any interested researcher from the Universities of Lausanne and Geneva and from the EPFL.

HPC theory and practice

There will be an introduction to HPC and to parallel programming with MPI, combined with practice sessions. Participants should bring a laptop; more detailed information will be provided before the event.

Registration

For UNIL/UNIGE/EPFL participants there is no registration fee, and the cost of accommodation (two nights) is entirely covered by CADMOS.

To register, please send an e-mail to Jonas Latt, jonas.latt@unige.ch, with the following information:

- Name
- Affiliation
- A short description (max. 3 sentences) of the reasons of your interest in computational science and/or high performance computing

You will receive a confirmation of your registration within a few days after registering. Registration closes on 31st of May 2018. The number of participants is limited – register soon!

Schedule

	Morning		Afternoon		Evening
Mon 9.7.	9:30-10:00 10:15-11:00 11:15-12:00	Registration, Coffee Concepts of HPC (JLF) A history of HPC (VK)	13:30-14:00 14:00-15:30 15:30 16:00	Presentation of the Poisson equation (JL) Practice: Poisson solver Coffee Break Excursion	Dinner: 19:30
Tue 10.7.	9:00-10:15 10:15-10:45 10:45-12:00	Intro to MPI (JLF) Coffee break MPI Exercise	13:30-14:30 15:00-18:00	MPI: Theory (JLF) Wine&Cheese Tasting Free Discussion	Dinner: 19:00
Wed 11.7.	9:00-9:45 9:45-10:50 10:15-12:00	Intro to OpenMP (VK) Coffee break OpenMP Exercise	13:30-15:00 15:00	Exercises, Discussion Closing, Coffee	