phase change
2026 WINTER SCHOOL

Scientific Program

Aussois, France

13-18 december



PROPULS'
Project catalyst

Language

Classes can be held in French or English, depending on the instructor and the audience. Written documents and presentations will be in English.

Dates & Hours

Please plan to arrive the day before (Sunday 13th). Classes start on Monday morning and end on Friday at noon.

Sunday, 13th december

17:00 • **Modane bus departure in the train station to Aussois**

19:30 • 🍴 *Dinner*

Monday, 14th december

8:00 **Thermodynamics of Phase Change I**
Marie Charlotte Renoult, CORIA
55'

8:55 **Thermodynamics of Phase Change II**
Marie Charlotte Renoult, CORIA
55'

9:55 ☕ *Coffee Break – 20'*

10:15 **Classical Nucleation Theory I**
Benoit Stutz, LOCIE
55'

11:15 **Classical Nucleation Theory II**
Benoit Stutz, LOCIE
55'

12:15 🍴 *Lunch – 1:15*

14:00 **Pool Boiling and Bubble Growth I**
Vadim Nikolayev, CEA
55'

14:55 **Pool Boiling and Bubble Growth II**
Vadim Nikolayev, CEA
55'

15:55 ☕ *Coffee Break – 20'*

16:15 **Thermohydraulic and Convective Boiling Modeling I**
Fabrice François, CEA
55'

17:15 **Thermohydraulic and Convective Boiling Modeling II**
Fabrice François, CEA
55'

18:30 **Poster session**
60'

19:30 🍴 *Dinner*

Tuesday, 15th december

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8:00 **Thermohydraulic and Convective Boiling Modeling III**
Fabrice François, CEA
55'

8:55 **Thermohydraulic and Convective Boiling Modeling IV**
Fabrice François, CEA
55'

9:55 *Coffee Break – 20'*

10:15 **Basics of Condensation I**
Alidad Amirfazli, York Univ., Canada
55'

11:15 **Basics of Condensation II**
Alidad Amirfazli, York Univ., Canada
55'

12:15 *Lunch – 1:15*

14:00 **Free/Group session**

15:55 *Coffee Break – 20'*

16:15 **Free/Group session**

18:30 **Poster session**
60'

19:30 *Dinner – Savoyard fondue*

Wednesday, 16th december

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8:00 **Basics of Solidification — Nucleation / Grain growth I**
Nathalie Bergeon, IM2NP
55'

8:55 **Basics of Solidification — Nucleation / Grain growth II**
Nathalie Bergeon, IM2NP
55'

9:55 ☕ *Coffee Break – 20'*

10:15 **Basics of Solidification — Dendrite growth / Macrosegregation I**
Nathalie Bergeon, IM2NP
55'

11:15 **Basics of Solidification — Dendrite growth / Macrosegregation II**
Nathalie Bergeon, IM2NP
55'

12:15 🍴 *Lunch – 1:15*

14:00 **Numerical Methods — Microscopic and Atomistic modelling I**
Mykola Isaiev, LEMTA
55'

14:55 **Numerical Methods — Microscopic and Atomistic modelling II**
Mykola Isaiev, LEMTA
55'

15:55 ☕ *Coffee Break – 20'*

16:15 **Numerical Methods — Macroscopic and Volume of Fluid modelling I**
Stéphane Zaleski, Institut Jean Le Rond D'Alembert
55'

17:15 **Numerical Methods — Macroscopic and Volume of Fluid modelling II**
Stéphane Zaleski, Institut Jean Le Rond D'Alembert
55'

18:30 **Poster session**
60'

19:30 🍴 *Dinner*

Thursday, 17th december

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8:00 **Numerical Methods — Mesoscopic and Phase Field modelling I**
Mathis Plapp, Ecole Polytechnique
55'

8:55 **Numerical Methods — Mesoscopic and Phase Field modelling II**
Mathis Plapp, Ecole Polytechnique
55'

9:55 ☕ *Coffee Break – 20'*

10:15 **Experimental Boiling I**
Arthur Oliveira, EESC-USP
55'

11:15 **Experimental Boiling II**
Arthur Oliveira, EESC-USP
55'

12:15 🍴 ***Lunch – 1:15***

14:00 **Free/Group session**

15:55 ☕ ***Coffee Break – 20'***

16:15 **Free/Group session**

18:30 **Poster session**
60'

19:30 🍴 ***Dinner***

Friday, 18th december

8:00 **MRI, Raman Spectroscopy I**
Nicolo Sgreva, LEMTA
55'

8:55 **MRI, Raman Spectroscopy II**
Nicolo Sgreva, LEMTA
55'

9:55 ☕ *Coffee Break – 20'*

10:15 **LIF I**
Guillaume Castanet, LEMTA / Medhi Stitti, IMFT
55'

11:15 **LIF II**
Guillaume Castanet, LEMTA / Medhi Stitti, IMFT
55'

12:15 🍴 *Lunchbox collection*

12:30 **Bus departure to Modane**