

PROGRAMME

Sunday March 20, 2022

From 18:30 Welcome of the participants, registration
19.15 Dinner

Monday March 21, 2022

08.30 - 09.45 Introduction / Overview of solidification phenomena M. Gremaud
09.45 - 10.15 Break
10.15 - 11.15 Phase diagrams J. Dantzig
11.15 - 12.15 Discussion/Exercises (Phase diagrams) C. Beckermann / J. Dantzig
12.30 Lunch
13.45 - 14.45 Heat and Mass transfer M. Krane
14.45 - 15.45 Discussion/Exercises (Heat-Mass transfer) H. Combeau / M. Krane
15.45 - 16.15 Break
16.15 - 17.15 Nucleation and grain refinement in alloys A. Ludwig
17.15 - 18.00 In-situ visualization of solidification (films) M. Rappaz
18.30 Social Hour
19.30 Dinner

Tuesday March 22, 2022

08.30 - 09.30 Microsegregation C. Beckermann
09.30 - 10.30 Discussion/Exercises (Microsegregation) A. Ludwig / C. Beckermann
10.30 - 11.00 Break
11.00 - 12.00 Dendritic structures J. Dantzig
12:15 Lunch
14.00 - 15.00 Eutectic solidification A. Ludwig
15.00 - 16.15 Discussion/Exercises (Dendrites-Eutectic) J. Dantzig / A. Ludwig
16.15 - 16.45 Break
16.45 - 17.45 Mushy zone modeling H. Combeau
18.30 "Swiss Evening" dinner

Wednesday March 23, 2022

08.30 - 09.30	Porosity	C. Beckermann
09.30 - 10.30	Discussion/Exercises (Porosity)	H. Combeau / C. Beckermann
10.30 - 11.00	Break	
11.00 - 12.00	Modeling of columnar and equiaxed solidification	H. Combeau
12.15	Lunch	
	Free time (free discussions with the professors)	
18.15	Social hour	
19.15	Dinner	

Thursday March 24, 2022

08.30 - 09.30	Hot tearing	A. Phillion
09.30 - 10.45	Discussion/Exercises (Hot tearing)	M. Krane / A. Phillion
10.45 - 11.15	Break	
11.15 - 12.15	Additive manufacturing: rapid solidification	M. Rappaz
12.30	Lunch	
14.15 - 15.15	Macroseggregation	M. Krane
15.15 - 16.30	Discussion/Exercises (Macroseggregation)	A. Ludwig / M. Krane
16.30 - 17.00	Break	
17.00 - 18.00	Answer to participant questions – Panel session	All
18.15	Social hour	
19.15	Dinner	

Friday March 25, 2022

08.30 - 09.30	Solidification path in multi-component systems	M. Rappaz
09.30 - 10.30	Discussion/Exercises (Multi-comp)	J. Dantzig / M. Rappaz
10.30 - 11.00	Break	
11.00 - 11.45	Synthesis – Linking solidification phenomena	A. Phillion
11.45	Concluding remarks	M. Gremaud
12.00	End	
12.15	Lunch	

PRACTICAL INFORMATION

- Dates:** from Sunday March 20, 2022 evening
to Friday March 25, 2022, mid-day (lunch included)
- Location:** Hotel "Eurotel Victoria", Les Diablerets, Switzerland
(Mountain resort in the Swiss Alps, 100 km from Geneva)
www.eurotel-victoria.ch
- Access:** Train or car (2.5 hours by train from Geneva Airport and
4.5 hours by train from Zurich Airport).
- Registration:** As soon as possible with the enclosed registration form
to be sent by email to ESI Group at
solidification.course@esi-group.com.

Registration is limited to 40 participants.
All registrations will be confirmed in writing within 2-3 weeks.

- Price:** EUR 4'600.- (EUR = Euro currency)
This price includes the registration fee, the booklet of the course
with the lecture notes, the book "Solidification", the hotel (full
board), drinks during the meals, social hours and coffee breaks.

- Payment** The course fee should be paid before February 1st 2022.
Instruction for payment will be provided after registration.

A confirmed registration corresponds to a firm commitment. This means that the course fee should be paid in any case, unless the registration is cancelled in writing at least 60 days prior to the start of the course.

An information package with the practical details will be sent in advance (around mid-January 2022) to each registered participant.