

PROGRAMME

Sunday May 31, 2015

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

Monday June 1, 2015

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

Tuesday June 2, 2015

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-Eutect.) J. Dantzig/A. Ludwig
16.15 - 16.45 Break
16.45 - 17.45 Mushy zone modeling H. Combeau
18.30 "Swiss Evening" dinner

Wednesday June 3, 2015

08.30 - 09.30 Porosity M. Rappaz
09.30 - 10.30 Discussion/Exercises (Microporosity) J. Dantzig/M. Rappaz
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)
18.00 Social hour
19.00 Dinner

Thursday June 4, 2015

08.30 - 09.30 Macrosegregation A. Ludwig
09.30 - 10.45 Discussion/Exercises (Macrosegregation) H. Combeau/A. Ludwig
10.45 - 11.15 Break
11.15 - 12.15 Solidification path in multi-component systems W. Boettinger
12.30 Lunch
14.15 - 15.30 Discussion/Exercises (Multi-comp) C. Beckermann/W. Boettinger
15.30 - 16.00 Break
16.00 - 17.00 Thermomechanics J. Dantzig
17.00 - 17.45 Modeling examples (Coupling of solidif. phenomena) Ph. Thevoz
18.00 Social hour
19.00 Dinner

Friday June 5, 2015

08.30 - 09.30 Hot tearing M. Rappaz
09.30 - 10.30 Discussion/Ex. (Thermomec.&Hot Tear.) J. Dantzig/M. Rappaz
10.30 - 11.00 Break
11.00 - 11.45 Synthesis – Linking solidification phenomena Ph. Thevoz
11.45 Concluding remarks M. Gremaud
11.55 End
12.00 Lunch