

Program of the 18th Alemi Meeting
The University of British Columbia, Vancouver, Canada
Brimacombe Building, Room 311

Thursday, June 13, 2019: Session 1- Modelling from the atomic to the meso-scale

1:00	Lunch
1:30	Opening Remarks, Matthias Militzer , UBC, Canada.
1:40	Thermokinetic modeling of grain boundary segregation with ab-initio input, Lorenz Romaner , MCL, Austria.
2:05	Towards fully anharmonic calculations of diffusivity, Liam Huber , MPIE, Germany.
2:30	Atomistic modeling of fcc->bcc and martensitic transformations, Hélène Zapolsky , University of Rouen, France.
2:55	Phase-field modeling of the allotriomorphic and sideplate growth in metallic alloys, Hocine Lebbad , UBC, Canada.
3:20	Break
3:40	Atomistically informed solute drag phase field simulations, Ayush Suhane , UBC, Canada.
4:05	Expanding mean-field precipitation modelling for improving the kinetic description of the microstructure evolution, Manon Bonvalet-Rolland , KTH, Sweden.
4:30	Influence of Structure and Composition on H Segregation at Grain Boundaries in Fe – Insights from Ab-initio DFT Calculations, Rebecca Janisch , Bochum, Germany.
4:55	H-induced decohesion in Fe and Ni-based alloys, Vsevolod Razumovskiy , MCL, Austria.
5:20	Metastable Iron Carbides: Elementary considerations for a deeper understanding of the Fe-C system, Fabio Miani , University of Udine, Italy.
5:45	Discussion
6:00	Dinner (LaBrass, 4473W 10thAve)

Friday, June 14, 2019: Session 2- Experimental observations from the atomic to the meso-scale.

8:00	Breakfast
8:30	Nanoscale characterization of austenite/ferrite interfaces in FeMnC alloys under different thermodynamic conditions, Olha Nakonechna , University of Rouen, France.
8:55	Solute Segregation at Ferrite/Austenite Interfaces, Hatem Zurob , McMaster University, Canada.
9:20	In-situ TEM Studies of Ferrite Growth and Mode-switching as a function of the Mn concentration, Sybrand van der Zwaag , TU Delft, Netherlands.
9:45	Mechanism and Evidence for the Formation of Dynamic Ferrite, Gary Purdy , McMaster University, Canada.
10:10	Break
10:30	Mo solute drag effects on ferrite and bainite transformations, Goro Miyamoto , Tohoku University, Japan.
10:55	Effect of interfacial Mn partitioning on carbon partitioning and interface migration during the Quenching and Partitioning process, Zongbiao Dai , Tsinghua University, China.
11:20	Stasis and Morphology Transition during Ferrite Growth in an Fe-9%Ni-C Alloy, Chris Hutchinson , Monash University, Australia.
11:45	Weak influence of ferrite growth rate and strong influence of driving force on dispersion of VC interphase precipitation in low carbon steels, Yongjie Zhang , Tohoku University, Japan.
12:10	Thermal grooving-enhanced coarsening: Observation of spheroidization mechanisms in duplex stainless steels, Damien Tresallet , INP Grenoble, France.
12:35	Development of compositional-gradient metallic alloys for combinatorial investigation of microstructures, Imed Benrabah , INP Grenoble, France.
13:00	Lunch, Closing Remarks & Discussion.