

LIMTECH-Symposium – September 19-20, 2017, Dresden

Agenda

September 19, 2017, HZDR, Building 114, Room 202		
Time	Content	
11:00	Transfer from Hotel to HZDR Campus	
12:00	Lunch Buffet	
13:05 – 13:30	Welcome, Introduction and Resume	G. Gerbeth (HZDR)
13:30 – 14:05	Invited: Model Experiments in Crystal Growth (LIMTECH Award lecture)	K. Dadzis (IKZ Berlin)
14:05 – 14:40	Spotlight - Measurement Techniques (YIG)	T. Wondrak (HZDR)
14:40 – 15:15	Spotlight - Facilities and Experiments	R. Stieglitz (KIT)
15:15 – 16:15	Coffee and Posters	
16:15 – 16:50	Invited: Planetary Dynamors	P. Davidson (Cambridge University)
16:50 – 17:25	Spotlight - Numerical Simulations	J. Fröhlich (TU Dresden)
17:25 – 17:40	Seed - Simulations preparing a Super-AMRI sodium experiment	F. Stefani (HZDR)
17:40 – 17:55	Seed - LFV experiments of flow around a sphere	Z. Lyu (TU Ilmenau)
19:30	Dinner at Restaurant Pulverturm in Dresden	
September 20, 2017, HZDR, Building 114, Room 202		
09:00 – 09:35	Invited: Research on liquid metal processing applied to metallurgical engineering	A. Jardy (Univ. Lorraine & CNRS)
09:35 – 09:50	Seeds – Device for stirring Al with permanent magnets / Particle segregation during metal solidification	Kaldre / Beinerts (IPUL Riga)
09:50 – 10:05	Seed – RMF influence on the decay of a free jet	R. Schwarze (TU Freiberg)
10:05 – 11:05	Coffee and Posters	
11:05 – 11:40	Invited: Liquid metal antennas and 3D printing of liquid metals for microfluidic channels	I. Joshipura (North Carolina State Univ.)
11:40 – 11:55	Seed – Neutron radiography of Ga crystallization in EM fields	D. Musaeva (Univ. Hannover)
11:55	Outlook and Closing	G. Gerbeth (HZDR)
12:30	Lunch Buffet	
13:30	Transfer to train station / airport	

Poster List

Generic problems & phenomena		
A1	Thermo-hydraulic flow in a sudden expansion	R. Stieglitz et al.
A2	Magnetic field dynamos and the magnetorotational instability	F. Stefani et al.
A3	Magnetically induced instabilities in duct flows	L. Bühler et al.
A4	Magnetic flow control in solidification	S. Eckert et al.
A5	Liquid metal two-phase flows and magnetic particle separation	G. Gerbeth et al.
Energy conversion & storage		
B1	Transition between free, mixed and forced convection	R. Stieglitz et al.
B2	Liquid metals for solar power systems	T. Wetzel et al.
B3	Liquid Metal Batteries	T. Weier et al.
B4	Phase changes in liquid metals for direct energy conversion	W. Hering et al.
B5	Carbon dioxide free production of hydrogen	T. Wetzel et al.
Metals & semiconductors processing		
C1	Magnetic flow control in growth and casting of photovoltaic silicon	G. Gerbeth et al.
C2	Magnetic control in Ribbon Growth on Substrate of silicon wafer	V. Galindo et al.
C3	LIMMCAST: Modelling of steel casting	S. Eckert et al.
C4	Casting technology for ODS steels	G: Gerbeth et al.
Measurement techniques		
YIG	Measurement Techniques for Liquid Metal Flows	T. Wondrak et al.

Remark:

Each project is expected to present a poster with focus on the latest scientific results, but the poster should also contain a textbox to give a resume/outlook of the project when considering the full funding period. If a PhD student is part of the project, the PhD student is expected to present the project poster, i.e. additional PhD posters are not intended.

Further posters, e.g. on previous seed activities, are highly welcome.

PhD Soft-Skill Seminar:

The PhD coaching seminar will take place at HZDR, Building 114, Room 202 prior to the symposium. The referent is Mrs. Nikola Haneke (Helix Empowerment). The seminar will be held in English language. The agenda is listed below:

Monday, Sept. 18, 13:00 – 18:00	Scientific writing for non-native speakers
Tuesday, Sept. 19, 09:00 – 12:00	How to write a successful research proposal

On Monday afternoon, there will be a coffee break at 15:15 p.m.