



30th Annual MSIT Meeting

International Seminar on Heterogeneous Multicomponent Equilibria

31 January – 5 February 2016, Schloss Ringberg, Tegernsee, Germany

Organized by

MSI, Materials Science International Services GmbH, Stuttgart, Germany

and

KIT, Karlsruhe Institute of Technology, Karlsruhe, Germany

Sponsored by

Springer Verlag, (Heidelberg, Germany)



Content

Workshop Agenda

List of Participants

Working Groups

MSI Graphics Editor – collaboration tool

MSI Collaboration – collaboration environment

A G E N D A

SUNDAY, January 31, 2016

Starting 15:00		ARRIVAL
16:09	Tegernsee train station	Shuttle 1 to the castle
17:09	Tegernsee train station	Shuttle 2 to the castle
19:00	Gartenzimmer	Get Together (snack bar)
20:30	Main door of the castle	Departure to the hotel "Zur Post" in Kreuth <i>(only for the participants accommodated in the hotel)</i>

MONDAY, February 1, 2016

7:50	Hotel "Zur Post"	<i>Pick-up from the hotel (only for the participants accommodated in the hotel)</i>
8:00–9:00	Speisesaal	<i>Breakfast</i>
Materials Chemistry 30 Years MSIT - Experience in Critical Evaluation		
9:00	Konferenzraum Chair: Günter Effenberg	Opening by Günter Effenberg (MSI, Stuttgart, DE) "30 Years MSIT. What did we achieve"
9:30		Alexandra Khvan (MISIS, Moscow, RU, chair of MSIT-Russia) "Experience from the 1 st MSIT-Russia Meeting"
9:40		Andy Watson (Leeds, UK), Svitlana Ijlenko (MSI, Stuttgart, DE) "How to make critical evaluation"
10:05		Arno Lehmann (MSI, Stuttgart, DE) "MSI Collaboration Tool"
10:15		Oleksandr Dovbenko (MSI, Stuttgart, DE) "MSI Graphics Editor"
10:20		Hans Jürgen Seifert (KIT, Karlsruhe, DE) "Current activities in the WeNDeLIB project"
10:30	Konferenzgebäude	<i>Coffee</i>
11:00-18:30	Konferenzraum	Session A DFG SPP 1473 II – WeNDeLIB <i>(only for WeNDeLIB partners)</i>
11:00-12:30	Grüner Seminarraum	Session B MSIT Newcomers and New Projects

A G E N D A

Session A1			DFG SPP 1473 II - WeNDeLIB
11:00	Konferenzraum Chair: Hans Jürgen Seifert	Hans Jürgen Seifert (KIT, Karlsruhe, DE) "Introducing remarks and welcome"	
11:20		Damian Cupid (KIT, Karlsruhe, DE)	
11:40		Thomas Reichmann (KIT, Karlsruhe, DE) "Difficulties in alloy anode preparation"	
12:10		Dajian Li (KIT, Karlsruhe, DE) „Some complexities for the thermodynamic studying of the Li-Sb system”	
12:30	Speisesaal	Lunch	
14:00	Konferenzraum Chair: Hans Jürgen Seifert	Melanie Mangang (KIT, Karlsruhe, DE) "Investigation of lithium-ion diffusion kinetic in LiFePO ₄ composite cathode material"	
14:30		Peter Smyrek (KIT, Karlsruhe, DE) „Laser-Induced breakdown spectroscopy of advanced Li(NiMnCo)O ₂ electrodes”	
15:00		Nicolas Mayer (KIT, Karlsruhe, DE) "Problemstellungen bei Experimenten und thermodynamischer Modellierung im Materialsystem Co-O"	
15:30	Gartenzimmer	Coffee	
16:00	Konferenzraum Chair: Hans Jürgen Seifert	Boxia Lei (KIT, Karlsruhe, DE) "Electrochemical-calorimetric studies on different lithium ion cells"	
16:30		Marc Strafela (KIT, Karlsruhe, DE) "Li-rich thin film cathodes in the system Li-Ni-Mn-Co-O"	
17:00		Maryam Masoumi (KIT, Karlsruhe, DE) "Thermal analysis of selected compositions in the LiNiO ₂ -LiMnO ₂ -LiCoO ₂ system"	
17:30		Discussion of the current activities in <i>DFG SPP 1473 II - WeNDeLIB</i>	
18:30	Speisesaal	Dinner	

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Session B		
MSIT Newcomers and New Projects		
11:00	Grüner Seminarraum Chair: Peter Rogl	Stephanie Lippmann (Friedrich-Schiller-University Jena, DE) "Preparation of stoichiometric intermetallic phases as single phase material"
11:05		Yuan Yuan (KU Leuven, BE) "Experiments, Thermodynamics, Kinetics, Simulations -- Integrated Materials Design"
11:10		Yao Wang (Univ. Genova, IT) "Thermodynamic assessment of the Al-Cr-Ni system"
11:15		Svetlana Sinyova (St. Petersburg Polytechnic University, RU) "Research of phase equilibria in ternary Me1-Me2-S systems with the use of experimental and calculation techniques"
11:20		Seydhossein Miran (KIT, Karlsruhe, DE) "Casting technology for ODS steels"
11:25		Ingo Markel (KIT, Karlsruhe, DE) "CMCs for application in gas turbines"
11:30		Irina Bajenova (MISIS, Moscow, RU) "Experimental study and thermodynamic reassessment of Fe-Mn-Al-C system as a basis for the development of new high-manganese steels"
11:35		Nikita Kovalenko (MISIS, Moscow, RU) "Experimental investigations and thermodynamic modelling of extraction processes in the systems with the rare earth nitrates"
11:40		Alexey Voskov (MISIS, Moscow, RU) "Convex hull method for the phase diagrams calculations"
11:45		Evgeniy Syutkin (MISIS, Moscow, RU) "Laves phases in the Fe-Cr-Nb system"
11:55		Ziya Aliev (Inst. Catal. Inorg. Chem., Baku, AZ) "Development of advanced inorganic materials based on metal chalcogenides and chalcogenides for spintronics and quantum computing"
12:00		Ivan Saenko (TU Freiberg, DE) "Kinetics of VN precipitation in the CrMnNi-TRIP-steels"
12:10		Lazar Rokhlin (IMET, Moscow, RU) "Mg-Dy-Sm phase diagram in the Mg-rich area"
12:20	Mario Kriegel (TU Freiberg, DE) "Phase transformations in Ti-Fe alloys induced by high pressure torsion"	
12:30	Speisesaal	Lunch
14:00	allocated group rooms	Critical Evaluation and Review of Materials Systems Evaluation Group-Work
15:30	Gartenzimmer	Coffee
16:00	allocated group rooms	Critical Evaluation and Review of Materials Systems Evaluation Group-Work
18:30	Speisesaal	Dinner

A G E N D A

TUESDAY, February 2, 2016

7:50	Hotel "Zur Post"	Pick-up from the hotel (only for the participants accommodated in the hotel)	
8:00–9:00	Speisesaal	Breakfast	
Session A2 DFG SPP 1473 II - WeNDeLIB			Critical Evaluation and Review of Materials Systems
9:00	Konferenzraum Chair: Damian Cupid	David Henriques "New thermodynamic data for intermetallic anode and LiCoO ₂ cathode materials"	Evaluation Group-Work (allocated group rooms)
9:30		Hans Flandorfer "Determination of the liquidus of Li-rich alloys by DTA and solution calorimetry: Li-Sb and Cu-Li as examples", H. Flandorfer, A. Beutl, S. Fürtauer, D. Li, D. Cupid	
10:00		Siegfried Fürtauer "Structural features of Cu-Sn, Li-Sn and Cu-Li-Sn alloys: Insertion and transport of lithium", S. Fürtauer, H.S. Effenberger, H. Flandorfer	
10:30	Gartenzimmer	Coffee	
11:00		Discussion of the current activities in <i>DFG SPP 1473 II - WeNDeLIB</i>	Evaluation Group-Work (allocated group rooms)
12:30	Speisesaal	Lunch	
14:00	allocated group rooms	Critical Evaluation and Review of Materials Systems Evaluation Group-Work	
15:30	Gartenzimmer	Coffee	
16:00	allocated group rooms	Critical Evaluation and Review of Materials Systems Evaluation Group-Work	
18:30	Speisesaal	Dinner	
19:45	Konferenzraum	We are the TEAM !	
21:15	Speisesaal	Feuerzangenbowle	

A G E N D A

WEDNESDAY, February 3, 2016

7:50	Hotel "Zur Post"	<i>Pick-up from the hotel (only for the participants accommodated in the hotel)</i>
8:00 – 9:00	Speisesaal	<i>Breakfast</i>
Critical Evaluation and Review of Materials Systems		
9:00	<i>allocated group rooms</i>	Evaluation Group-Work continued
10:30	Gartenzimmer	<i>Coffee</i>
11:00	<i>allocated group rooms</i>	Evaluation Group-Work continued
12:30	Speisesaal	<i>Lunch</i>
13:30	<i>allocated group rooms</i>	Evaluation Group-Work continued
15:30	Gartenzimmer	<i>Coffee</i>
16:00	<i>allocated group rooms</i>	Evaluation Group-Work continued
18:30	Speisesaal	<i>Dinner</i>
20:00	Konferenzraum	Discussion of evaluation problems found during Group Work

THURSDAY, February 4, 2016

8:00 – 9:00	Speisesaal	<i>Breakfast</i>
Critical Evaluation and Review of Materials Systems		
9:00	<i>allocated group rooms</i>	Evaluation Group-Work continued
10:30	Gartenzimmer	<i>Coffee</i>
11:00	<i>allocated group rooms</i>	Evaluation Group-Work continued
12:00	Speisesaal	<i>Lunch</i>
13:30	Gate of the castle	Walking (weather dependent and optional) Evaluation Group-Work continued <i>(allocated group rooms)</i>
15:30	Gartenzimmer	<i>Coffee</i>
16:00	<i>allocated group rooms</i>	Evaluation Group-Work continued
18:30	Speisesaal	Dinner (Bavarian Buffet)

A G E N D A

FRIDAY, February 5, 2016

8:00 – 9:00	Speisesaal	Breakfast
before 9:00		Clear rooms before 9:00
Critical Evaluation and Review of Materials Systems		
9:00	Re-allocated group rooms	Evaluation Group-Work continued
10:30	Gartenzimmer	Coffee
11:00	Grüner Seminarraum Chair:/Svitlana Iljenko	Group Reports
12:00	Speisesaal	Lunch
till 14:00		Departure
		Evaluation work to be completed remotely till 31.03.2016