



6th APDIC World Round Robin Seminar

"Phase Diagrams as a Tool for Efficient Materials Design"

11 - 14 February 2018

Ringberg Castle, Germany

Organised by:

Dr. Günter Effenberg / MSI, Materials Science International GmbH, Germany

Prof. Andrew Watson / Coventry University, United Kingdom

Prof. Hans-Jürgen Seifert / KIT, Karlsruhe Institute of Technology, Germany

APDIC, Alloy Phase Diagram International Commission

Programme MONDAY, February 12, 2018

- Opening of the 6th APDIC World Round Robin Seminar / Prof. Tetsuo Mohri (Japan), Chair of the APDIC WRRS Committee
- Principles of Chemical Thermodynamics/ Prof. Andy Watson (Coventry University, UK)
- Phase Diagrams Wisdom: how to read and apply (or interpret) phase diagrams/ Prof. Rainer Schmid-Fetzer (Technische Universität Clausthal, Germany)
- Crystallography, part I / Prof. Peter Rogl (Universität Wien, Austria)
- Crystallography, part II (Hands-on) / Prof. Peter Rogl (Universität Wien, Austria)

Programme TUESDAY, February 13, 2018

- Experimental Determination of Phase Diagrams / Dr. Frank Stein (Max-Planck-Institut für Eisenforschung GmbH, Germany)
- Experimental Methods in Thermodynamics / Prof. Hans Jürgen Seifert (Karlsruher Institut für Technologie (KIT), Germany)
- Advanced Phase Diagrams / Prof. Klaus Hack (GTT-Technologies, Germany)
- Computational Thermodynamics / Prof. K.C. Hari Kumar (IIT Madras, India)
- Computational Thermodynamics. Hands-on: phase diagram calculation; thermochemical properties and chemical equilibrium. / Prof. K.C. Hari Kumar (IIT Madras, India)

Programme WEDNESDAY, February 14, 2018

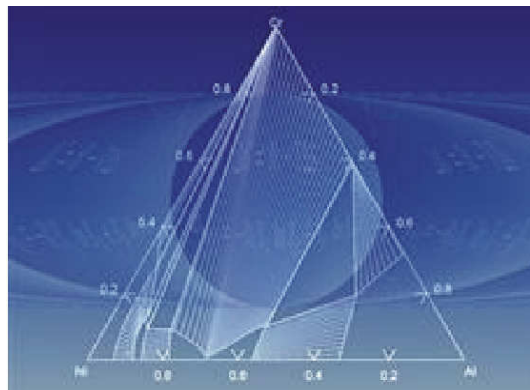
Applicational aspects of phase diagrams in the development of different types of materials

- Mg-Alloys / Prof. Rainer Schmid-Fetzer (Technische Universität Clausthal, Germany)
- Li-Ion Batteries / Prof. Hans Jürgen Seifert (Karlsruher Institut für Technologie (KIT), Germany)
- Pt-Alloys / Prof. Lesley Cornish (University of the Witwatersrand, SA)
- Pandat Software Training / Prof. Rainer Schmid-Fetzer (Technische Universität Clausthal, Germany)
- Thermoelectric Materials / Prof. Peter Rogl (Universität Wien, Austria)
- SimuSage for Processes Simulation / Prof. Klaus Hack (GTT-Technologies, Germany)
- Intermetallics: Phase Diagram-based Development of Ti-, Fe-, and Ni-Aluminide Materials for Structural Applications / Dr. Martin Palm (Max-Planck-Institut für Eisenforschung GmbH Germany)
- New Materials for Aeroengines / Dr. Claire Utton (The University of Sheffield, UK)
- Application of Density Functional Theory in the context of Phase Diagram Modelling / Prof. K.C. Hari Kumar (IIT Madras, India)
- How to Make Critical Evaluation of Constitutional Data / Prof. Andy Watson (Coventry University, UK)
- Graphics Editor, Literature Collection, MSI Collaboration Tool / A. Lehmann, O. Dovbenko (MSI, Germany)
- MSI Eureka- Data Base for Constitutional Properties of Inorganic Materials / S. Iljenko (MSI, Germany)

Sponsors



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Materials Chemistry Committee, UK

Participants

from Germany, Italy, Austria, Denmark, Nigeria, USA, UK





3rd MSIT Winter School:

8-11 March 2019
Schloß Ringberg, Germany