UGM 2019 Vienna

Scientific Program

Wednesday, October 16, 2019:

9:00 – 9:05	Erich Wimmer, Introductory Remarks and Session Chair
9:05 – 9:50	Georg Kresse , University of Vienna, Austria Organic perovskites: from RPA to phase diagrams via machine learning
9:50 – 10:30	Moritz to Baben, GTT, Germany Assessing phase stability with respect to competing phases
10:30 – 10:50	Coffee break
Session Chair: Alexander Mavromaras	
10:50 – 11:30	Antoine Claisse, Westinghouse, Sweden
	Atomistic Modeling at Westinghouse – Needs and Perspectives
11:30 – 12:10	Richard W. Smith, Naval Nuclear Laboratory, USA
	New Potentials for Zr/H: Collaboration with Materials Design, Inc.
12:10 – 14:00	Photograph and Lunch
Session Chair: Volker Eyert	
14:00 – 14:20	Véronique Lachet, IFP-EN, France
	Thermo-physical properties of $U_{1-y}Pu_yO_2$ MOX fuel using classical Monte Carlo simulations
14:20 – 15:00	Krzysztof Parlinski, University of Cracow, Poland
	Phonon Anharmonicity from ab initio Calculations
15:00 – 15:30	Stéphane Brice Olou'ou Guifo, Volkswagen, Germany
	Computational design of advanced energy materials for automotive engineering
15:30 – 16:00	Coffee break
Session Chair: Clive Freeman	
16:00 – 16:40	Richard Catlow, Royal Society, UK
	Computer Modelling of Nano-Particulate, Microporous, and Photo-active Catalysts

16:40 – 17:20 James J. P. Stewart, Stewart Computational Chemistry, USA

A worked example of how Computational Chemistry can help in solving an important and difficult problem

19:00 – 22:00 *UGM Dinner*

Thursday, October 17, 2019:

Session Chair: Dave Rigby

9:00-9:20 **Ryan Thomas,** Honeywell, USA

First-Principles Investigation of Hydrogen Trapping in Chemistry Dependent Vacancies of FeCrNi Alloys

9:20 – 9:40 **Wes Everhart**, Honeywell, USA

Applications of DFT to the ductility of intermetallic alloys

9:40 – 10:20 Marianna Yiannourakou, Materials Design, France

Predicting and Understanding Properties of Fluids with MedeA

10:20 – 10:40 *Coffee break*

Session Chair: Erich Wimmer

10:40 – 11:20 Arthur France-Lanord, MIT, USA

Ion transport in polymer electrolytes: from theory to machine learning

11:20 – 12:30 **Discussion and Conclusions**

12:30 - 14:00 Lunch

14:00 – 16:00 Informal Discussions between MD and Customers