

Tuesday July 24th room OFLG/402

SOIFIT Workshop: Solid Oxide Interfaces for Faster Ion Transport

Program

• Chair: T. Lippert

- 9:00. A. Menzel (PSI): *Overview SLS (SLS2.0) and imaging (c-SAXS)*
- 9:40. A. Cervellino (PSI): *Diffraction at SLS*
- 10:10. C. Lawley (PSI): *X-ray spectroscopy (XAS/XES, etc.)*
- 10:40 – 11:00. Coffee

• Chair: S. Skinner

- 11:00. A. Glavic (PSI): *Neutron-based Methods*
- 11:40. M. Döbeli (ETH): *Ion beam based methods in Material Science (RBS/ERDA etc.)*
- 12:20. Discussions and buffet lunch at meeting room

• Chair: H. Matsumoto

- 13:30. A. Agüero (Imperial)
- 14:00. E. Gilardi (PSI): *Interface effects of strain and chemical composition on the ionic transport via protons and oxygen vacancies*
- 14:30. R. Bliem (MIT): *Tuning Chemical Stability of Perovskite Oxide Surfaces with Metal Deposition*
- 14:50. D. Kim (MIT): *Effects of Electrochemical Potential on Aliovalent Dopant Segregation on Perovskite Oxides Through Elastic and Electrostatic Interactions*
- 15:10 - 15:40 coffee

• Chair: J. Kilner

- 15:40. F. Hess (MIT): *Decoding the surface instability of perovskite oxides at the atomic level: Sr segregation in $\text{La}_{(1-x)}\text{Sr}_x\text{MnO}_{(3\pm\delta)}$ in SOFC electrodes*
- 16:00. K. Ghuman (I2CNER): *Multi-scale Modeling of complex interfaces: Ceria in contact with yttria-stabilized zirconia*
- 16:30. Richard Chater (Imperial): *Complementary measurements on 'High5', the new plasma ion source SIMS with simultaneous positive and negative ion detection*

• Chair: F. Hess

- 17:00. A. Flura (CNRS): *Expertise in impedance spectroscopy measurements & new isotopic exchange setup under pressure at the ICMCB*

- 17:30. M. Yashima (Tokyo Tech): *Interstitial oxygen exists in apatite-type oxide-ion conductors? Experimental visualization of oxygen diffusion in pyrochlore-type oxide*
- 18:00. M. Shiraiwa (Tokyo Tech): *Discovery and development of BaNdInO₄*
- 18:10. K. Hibino (Tokyo Tech): *Crystallographic study of an anion-excess oxyfluoride at high temperatures*