

Call for Abstracts to the 83th IUVSTA Workshop  
New Horizons in Boron-Containing Coatings: Modeling, Synthesis, and Characterization

Vadstena, Sweden, September 2-6, 2018

<http://boronliu.com/>



Borides/Boron-containing coatings are emerging as the next generation of hard, wear-, oxidation- and corrosion-resistant coatings. This workshop is intended to initiate an in-depth discussion covering a broad range of boron-containing materials and synthesis technologies including approaches such as PVD and CVD to more complex methodologies incorporating gas- and/or power-pulsing techniques, presented in a systematic fashion, by key scientific groups worldwide. The topics include:

- modeling and simulation of structure/property relationships for novel B-containing materials
- Control of nanostructure/composition during PVD and CVD synthesis
- Synthesis of targets for arc and magnetron sputtering; new precursors for CVD
- Protective coatings: hard, wear-, corrosion-, low-friction, high-temperature application
- Coatings for x-ray and neutron detectors and optics

**Plenary Speaker** - Jan-Eric Sundgren, Swedish Association for Engineering Industries, “The importance of research and innovation in securing sustainable growth in high wage economies”

**Confirmed invited speakers**

Paul Mayrhofer, Technical University Vienna, Austria  
John Abelson, University of Illinois, USA  
Weitao Zheng, Jilin University, China  
Jochen M. Schneider, RWTH Aachen University, Germany  
Marcus Morstein, PLATIT AG, Switzerland  
Jinn Chu, National Taiwan University of Science and Technology, Taiwan  
Jiri Houska, University of West Bohemia, Czech Republic  
Ulf Jansson, Uppsala University, Sweden  
Marián Mikula, Comenius University, Slovakia  
Harald Hillebrecht, Freiburg, Germany  
Peter Polcik, Plansee, Austria  
Carina Höglund, ESS, Sweden  
Alexander Grishin, KTH, Sweden  
Sasa Bajt, Center for Free Electron Lasers at DESY, Germany  
Helmut Riedl, Technical University Vienna, Austria

**Important dates:**

- April 1, 2018 Abstracts submission deadline
- May 31, 2018 – Registration of all participants
- September 2-6, 2018 – Workshop

**Workshop Chairs:**

Johanna Rosen, Jens Birch - Linköping University  
Ivan Petrov, Joe Greene - University of Illinois

