

PSE 2010 – Workshop
Wednesday, September 15, 2010, 09:25 – 12:05

Workshop: International Standardization of Carbon Films

Carbon-based coatings are very well established in many industrial applications. They are offered worldwide from coating suppliers in a large range of different film types: amorphous carbon coatings (diamond-like carbon, DLC) as well as CVD diamond coatings. The potential endusers are confronted with a large variety of film sub-types, abbreviations, deposition techniques and brand names. This fact as well as the international supplier-customer relationships gives the strong demand for an international standardization of carbon films to establish a clear terminology and a worldwide common understanding of this matter, especially at the industrial endusers. This workshop follows previous workshops held 2008 in [Korea](#) and 2009 in [Japan](#). It is intended to share the worldwide status of carbon film classifications and standards and to step forward to a common international standardization work.

The workshop will be chaired by Dr. Klaus Bewilogua, Fraunhofer-Institut für Schicht- und Oberflächentechnik IST, Braunschweig, Germany.

- 09:25-09:55 **Introduction and overview; Carbon film standardization in Germany**
Jan Gäbler, Fraunhofer IST, Braunschweig, Germany
- 09:55-10:20 **Collaboration system on carbon standardization in Japan**
Hidetoshi Saitoh, Nagaoka University of Technology, Japan
Naoto Ohtake, Tokyo Institute of Technology, Japan
- 10:20-10:45 **Efforts for extending applications of carbon coating in Korean industry**
Dr. Kwang-Ryeol Lee, KIST, Korea
- 10:45-11:10 **DLC Coatings: Current Practice in Europe**
Paul Peeters, Dave Doerwald, Roel Tietema, Desiree Driesenaar, Thomas Krug, Hauzer Techno Coating, The Netherlands
- 11:10-11:35 **Recent developments and trends in carbon coatings in North America**
Gary Doll, Timken, USA
- 11:35-12:05 **Need for and creation of an international standard on carbon films**
Panel discussion with the presenters and the audience, moderated by Jan Gäbler