

Industrial Workshop: Plasma Technologies for Reduction of CO₂ Emission

Speakers from industrial companies will discuss the current challenge to utilize Plasma Technologies for reduction of CO₂ emission. The workshop will be organized by the German PISE Group (PLASMA Germany) in cooperation with the Society of Vacuum Coaters (SVC) and chaired by Roel Tietema, Hauzer Techno Coating BV, Venlo (NL).

- 15:15-15:45
IW1 **Tailor Made Surface Technology for Energy Efficient Tribological Systems**
Tim Hosenfeldt, Schaeffler KG, Herzogenaurach, Germany
- 15:45-16:05
IW2 **Coatings for efficient high pressure diesel injection**
Ulrich May, Robert Bosch GmbH, Diesel Systems (DS/ETD3), Stuttgart, GERMANY
- 16:05-16:25
IW3 **Deposition of low-friction/high wear resistant ta-C coatings deposited by an industrial laser arc Technology**
Hans-Joachim Scheibe, Fraunhofer-Institut für Werkstoff- und Strahltechnik (IWS), Dresden, Germany
Michael Falz, VTD Vakuum Technik Dresden GmbH, Dresden, Germany
- 16:25-16:45
IW4 **Comparison of the wear behaviour of DLC coatings in automotive engine applications and laboratory tribometer tests**
Jasmin Martin, BMW Group, München, Germany
- 16:45-17:15 Coffee break
- 17:15-17:35
IW5 **Barriers to the Use of Plasma Technologies in Large Engines and Machines**
Steven C. Taylor, Caterpillar Inc. - Advanced Materials Technology; Peoria-IL, USA
- 17:35-17:55
IW6 **Advanced coatings for aerospace applications to reduce fuel consumption**
Christoph Leyens, TU Dresden, Institute of Materials Science, Dresden, Germany
- 17:55-18:15
IW8 **Application Potential of Hard Coatings with Lubricants for Reduction of Friction Losses**
K. Yilmaz, RWTH Aachen University, Surface Engineering Institute, Aachen, Germany