Protective, Tribological and Decorative Coatings

The Protective, Tribological and Decorative Coatings Technical Advisory Committee encourages speakers to submit presentations dealing with design, development, production, applications and research in the field of tribological coatings. We solicit papers about vacuum coatings and equipment for applications to protect components, tools, as well as decorative parts. We encourage speakers to include business aspects of these applications, too. Also, we welcome academic papers addressing research work with a focus on these applications.

In line with this year’s overall Symposium topic, speakers are especially encouraged to submit papers on tribological coatings for healthcare applications. Papers addressing the development and use of coatings in relation to legislation and FDA approvals, and the scale-up of processes to mass production are of interest.

Topics of interest for this session include, but are not limited to:

- Tribological performance of coatings for artificial joints
- Biocompatible coatings for artificial joints
- Legislation and FDA approval for biocompatible coatings
- Coatings for cutting tools
- Coatings for molding and forming tools
- Reliability and life of tribological systems, enhanced by coatings
- Short and long term business trends in the field of tool coatings, component and decorative coatings
- Coatings for the reduction of friction and exhaust gas emissions
- Corrosion protective coatings (e.g. Zn:Al) on large-area surfaces
- Testing and evaluation of coating performance
- Failure analysis of coatings
- Scale-up of vacuum coating processes for industrial demands
- Coatings for high-performance engines
- High-temperature coatings for aerospace applications

Invited Speakers:

Anne Neville, School of Mechanical Engineering, University of Leeds, Leeds, United Kingdom  
BioTribology of Thin Film Coatings

Antonio Santana, IHI Ionbond AG, Olten, Switzerland  
New Generation of Ceramic Thin Film Coatings for Implants and Medical Instruments

TAC Chair:
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Assistant TAC Chairs:
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