

Symposium 24:

Advanced Wear Resistant Materials: Tribology, Coatings and Reliability

This symposium focuses on recent advances in wear-resistant materials and coatings development, evaluation of microstructures and properties, and novel applications based on tribology and reliability. Particular emphasis is placed on integrated structural properties, environmental properties, and functionality through innovative material and coating processing; composition and architecture optimization; advanced wear-resistant materials; and low friction coatings for extreme environments and life prediction modeling. Useful information on successful applications to industry, such as automobile and high-load machinery, will be included.

<PROPOSED SESSION TOPICS>

- Wear Resistant Materials for Tools and Molds in Precision Machining Applications
- Advanced Coating for Automobile and Air Craft Applications
- Low Friction Coatings and Materials
- Characterization and Test Methods on Wear Resistant Materials.
- Mass production and reliability of wear-resistant coatings

<ORGANIZERS>

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<INVITED LECTURES>

Tentative invited lecture information is posted in the following URL;

http://www.ceramic.or.jp/pacrim13/list_of_invited_speakers.html#24