



**Name:** Renguo Lu

**Theme:** Micro-scale Tribological Properties of Tribofilms Formed in Boundary Lubrication

**Related Presentation/Publication**

Conference presentations

- 1) (Oral) R. Lu, H. Tani, N. Tagawa, S. Koganezawa, S. Mori, Friction Coefficient Microscopy of Tribofilm Originated from ZnDTP and in situ Observation of the Tribofilm Growth, Tribology Conference 2016 Autumn Nigata, 12-14 October 2016, Nigata, Japan
- 2) (Invited talk) R. Lu, H. Tani, N. Tagawa, S. Koganezawa, Tribochemical Reaction and Tribofilm Formation on Friction-Activated Steel Surfaces, EMN Meeting on Surface and Interface, 12-16 September 2016, Kuala Lumpur, Malaysia
- 3) (Oral) S. Shiode, R. Lu, H. Tani, S. Koganezawa, N. Tagawa, Microscopic Friction Properties of Tribofilms, JSME Annual Meeting, 11-14 September 2016, Fukuoka, Japan
- 4) (Poster) S. Shiode, R. Lu, H. Tani, S. Koganezawa, N. Tagawa, Effect of Interaction between Oleic Acid and Base Oils on Boundary Lubrication, Kansai Junkatsu Konndankai, 15 July 2016, Kobe, Japan
- 5) (Oral) R. Lu, H. Tani, N. Tagawa, S. Koganezawa, S. Mori, Friction Properties of Associated Carboxylic Acids under Boundary Lubrication Conditions, Tribology Conference 2016 Spring Tokyo, 23-25 May 2016, Tokyo, Japan
- 6) (Poster) S. Shiode, R. Lu, H. Tani, S. Koganezawa, N. Tagawa, S. Mori, Effect of Molecular Orientation on Friction Properties of Associated Carboxylic Acids, The 7th Advanced Forum on Tribology, 9-11 April 2016, Nara, Japan

Publications

- 1) R. Lu, S. Mori, H. Tani, N. Tagawa, S. Koganezawa, Low Friction Properties of Associated Carboxylic Acids Induced by Molecular Orientation, Tribology International (submitted)
- 2) R. Lu, H. Tani, N. Tagawa, S. Koganezawa, Friction Coefficient Microscopy of Tribofilm Generated from Zinc Dialkyldithiophosphate (ZnDTP) and in situ Observation of the Tribofilm Growth, Tribology Letters (To be submitted)