



Taiho Kogyo Tribology Research Foundation

**Name:** Hiroshi Tani

**Theme:** Thermal stability improvement of ultrathin boundary lubricant films on a DLC film

**Related Presentation/Publication**

[1] H. Tani, S. Koganezawa, N. Tagawa, "Thermal Behavior of Frictional Properties on Ultra-Thin Perfluoropolyether Lubricant Film", JAST Tribologist, vol. 60, no. 8, 2015, pp. 391-401, in press (in Japanese).

[2] H. Tani, S. Koganezawa, N. Tagawa, "Thermal Behavior of Frictional Properties on Ultra-Thin Perfluoropolyether Lubricant Film", JAST Tribology online (will be submitted).

Conference presentation associated with this work:

[1] H. Tani, S. Koganezawa, N. Tagawa, "Thermal Behavior of Frictional Properties on Ultra-Thin Perfluoropolyether Lubricant Film", Proceeding of JAST Tribology Conference 2014 autumn, Sendai, Japan, 2014, E16 (in Japanese).

[2] Y. Hata, H. Tani, S. Koganezawa, N. Tagawa, "Temperature dependence of friction property on magnetic disks by laser heating", Proceeding of JAST Tribology Conference 2015 spring, Himeji, Japan, May 27-28, 2015, E33 (in Japanese).

[3] H. Asada, H. Tani, S. Koganezawa, N. Tagawa, "Thermal decomposition of ultra-thin PFPE analyzed by TOF-SIMS", Proceeding of JAST Tribology Conference 2015 spring, Himeji, Japan, May 27-19, 2015, E31 (in Japanese).

[4] H. Asada, H. Tani, S. Koganezawa, N. Tagawa, "Thermal decomposition of ultra-thin PFPE analyzed by TOF-SIMS", Proceedings of MIPE2015, Kobe, Japan, June 14-17, 2015, TuA-1-3.

[5] H. Tani, S. Koganezawa, N. Tagawa, "Reduction of lubricant pickup by bias voltage between slider and disk surface", Proceedings of MIPE2015, Kobe, Japan, June 14-17, 2015, WeA-4-4.

[6] H. Tani, Y. Sakane, S. Koganezawa, N. Tagawa, "Heat Resistance Improvement of PFPE Lubricant Film by Ultra Violet Irradiation with Bias Voltage", Proceedings of JSME Mechanical Engineering Congress 2015, Sapporo, Japan, S1620201 (in Japanese).

[7] H. Tani, Y. Sakane, S. Koganezawa, N. Tagawa, "Heat Resistance Improvement of PFPE Lubricant Film by Ultra Violet Irradiation with Bias Voltage", Tribology Frontier Conference 2015, Denver, USA (accepted).

Publications to be prepared for the submission:

[1] H. Tani, Y. Sakane, S. Koganezawa, N. Tagawa, "Heat Resistance Improvement of PFPE Lubricant Film by Ultra Violet Irradiation with Bias Voltage", Tribology letters or Tribology online.

[2] H. Tani, H. Yamazaki, R. Lu, S. Koganezawa, N. Tagawa, "Thermal Behavior of Friction on Ultra-thin PFPE Lubricant Film with Different Structure", IEEE Trans. On Magn.