

Hydrogenius Tribology Symposium (PLAN)

Hydrogenius, Kyushu University
 Room 910, West Bldg No.4-9F , Ito Campus
 Thursday, 5th February, 2009

Session 1

Chairman Shinya Sasaki

13:30-14:20

Keynote

On the Intrinsic and Extrinsic Lubrication Mechanisms of Hydrogen in Carbon Films

Ali Erdemir*, Argonne National Laboratory

14:20-14:45

Sliding friction and wear of DLC coating films in hydrogen environment

Hiro Yoshi Tanaka^{1*}, Joichi Sugimura^{1,2}

14:45-15:10

Tribological properties of Zr and Nb disk specimens in various gas atmospheres

Takashi Murakami^{2*}, Hiroki Mano², Katsuo Kaneda², Koji Miyake², Masayuki Hata², Shinya Sasaki³, Joichi Sugimura^{1,2}

Coffee Break

Session 2

Chairman Joichi Sugimura

15:40-16:05

Friction and Wear properties of Rubber and Filled-PTFE in Hydrogen Atmosphere

Tomoaki Iwai*, Tomoyuki Higashiyama, Kousuke Ida, Yutaka Shokaku, Kanazawa University

16:05-16:30

Wear of polymer composite in hydrogen

Yoshinori Sawae^{1*}, Kazuhiro Nakashima¹, Daich Yamamoto¹, Yoshie Kurono¹, Shunichiro Doi¹, Teruo Murakami¹, Joichi Sugimura^{1,2}

16:30-16:55

Fretting wear tests of steels exposed to high pressure hydrogen

Naoshi Izumi^{1*}, Takehiro Morita¹, Nichiro Mimuro², Joichi Sugimura^{1,2}

16:55-17:20

Effects of small amount of water on tribological behaviors in hydrogen

Kanao Fukuda^{1*}, Masaaki Hashimoto¹, Joichi Sugimura^{1,2}

17:20-17:30

Discussion and Closure

¹ Kyushu University

² AIST

³ Tokyo University of Science

*Presenting and corresponding author