



## TTRF-TAIHO International Symposium on Automotive Tribology 2019

1. Date : Tuesday, Apr 16, 2019 10:00-17:30 (Registration 9:00-16:10)
2. Venue: Intl. Conf. Room, 3F, Bldg.3, Nagoya Congress Center, Nagoya, Aichi Prefecture
3. Program:

### Theme: Tribology Technologies for the Evolution of Powertrain Part II

< Opening >		Moderator <u>Toru Desaki</u>
10:05-10:15	Opening Address	<u>Koichi Sugihara</u> Organizing Committee Chair (Taiho Kogyo Co.,Ltd.)
< Honorary Lecture >		Chair <u>Kenneth G. Holmberg</u> (VTT Tech. Research C. Finland)
10:15-11:15	Honorary Lecture 1: Technology Trends of Passenger Car Engines: Past, Present and Future	<u>Kazuo Muraki</u> (Nissan Motor Co.,Ltd.)
11:15-12:15	Honorary Lecture 2: Research on Reduction of Friction Loss of Internal Combustion Engine in SIP Innovative Combustion Technology and Research System of Industry-University Collaboration after 2019	<u>Yuji Mihara</u> (Tokyo City University)
12:15-12:25	General Discussion	
12:25-13:30		<Lunch> Cafeteria "Cascade"
< Session 1 >		<u>Lubricants</u> Chair <u>Toshinari Sano</u> (Toyota Motor Corporation)
13:30-14:00	Lecture 1: Motor Cooling Oil for Hybrid Vehicle & Electric Vehicle	<u>Toshiaki Iwai</u> (Idemitsu Kosan Co.,Ltd.)
14:00-14:30	Lecture 2: The Lubrication Challenges of Drivetrain Electrification	<u>Walter Bunting</u> (BP p.l.c.)
14:30-14:40	General Discussion	
< Session 2 >		<u>Design</u> Chair <u>Atsushi Korenaga</u> (National Institute of Advanced Industrial Science and Technology)
14:40-15:10	Lecture 3: Technique for Reducing Friction of Piston Rings	<u>Miyuki Usui</u> (Riken Corporation)
15:10-15:40	Lecture 4: Friction Reduction in Internal Combustion Engines through Laser Surface Texturing	<u>Sorin-Cristian Vladescu</u> (Imperial College London)
15:40-15:50	General Discussion	
15:50-16:10		<Coffee Break>
< Session 3 >		<u>Materials</u> Chair <u>Shuzo Sanda</u> (Tokyo City University)
16:10-16:40	Lecture 5: SHINAYAKA Polymers for Automobile	<u>Kohzo Ito</u> (The University of Tokyo)
16:40-17:10	Lecture 6: Technical Trends of Solid Lubricant Overlay for Engine Bearings	<u>Shu Kamiya</u> (Taiho Kogyo Co.,Ltd.)
17:10-17:20	General Discussion	
< Closing >		Moderator <u>Toru Desaki</u>
17:20-17:30	Closing Address	<u>Tetsushi Suzuki</u> (Taiho Kogyo Co.,Ltd.)

4. Reception: 18:00-19:30 Skyview Restaurant 7F, Nagoya Congress Center "Pastel"