International Symposium of Hydrogen Polymers Team, HYDROGENIUS

Tentative Program (11/1/2017)

Date: **Thursday, 3th February 2017**
Venue: **Shiiki Hall, Kyushu University**

Oral Session

11:00-11:40 **Session 1**

11:00-11:40 Opening Remarks/
"Polymeric Materials for Hydrogen Devices"
Prof Shin NISHIMURA, Kyushu University (Japan)

11:40-13:10 Lunch

13:10-14:30 **Session 2**
Chairperson: Dr Hiroaki ONO, Kyushu University

13:10-13:50 "Radiation Cross-Linked Polyethylene as Hydrogen Polymer Materials"
Prof Kazuyuki ENOMOTO, Kyushu University (Japan)

13:50-14:30 TBD
Dr Sylvie Castagnet, Institute P', ENSMA (France)

14:30-15:00 Coffee Break

15:00-16:50 **Session 3**
Joint Symposium of Hydrogen Tribology Team and Hydrogen Polymers Team
Chairperson: Prof Shin Nishimura, Kyushu University

15:00-15:40 TBD
Dr Kevin Simmons, Pacific Northwest National Laboratory (USA)

15:40-16:10 **"**Polymer Tribology in Hydrogen"
Prof Yoshinori SAWAE, Kyushu University (Japan)

16:10-16:20 Closing Remarks of Oral Session
Prof Joichi SUGIMURA, Kyushu University (Japan)

16:20-16:30 Break

16:30-18:00 **Poster Session**

PP01 "Activities of Research Group on Elastomers for Hydrogen Equipment"
Shin NISHIMURA, Kyushu University

PP02 **"**High-pressure Hydrogen Hose Evaluation Method"
Shin NISHIMURA, Kyushu University

PP03 TBD
Mitsuteru MUTSUDA, Daicel-Evonic LTD (Japan)

PP04 "Influence of Dissolved Hydrogen on the Bending Modulus of Polyamide 11"
Yohei FUJII, Kyushu University

PP05 **"**Properties of polyamide 11 and various long chain polyamides"
Shintaro OGATA, Arkema K.K.

PP06 "Radiation Cross-Linked Polyethylene as Hydrogen Polymer Materials"
Kazuyuki ENOMOTO, Kyushu University

PP07 "Morphological Change in High-Density Polyethylene caused by Rapid Decompression of High-Pressure Hydrogen: A Pulse NMR Study"
Kazuyuki ENOMOTO, Kyushu University

PP08 TBD
Shuji KAWAMOTO, Kyushu University

PP09 "On the Inhomogeneity in Acrylonitrile Butadiene Rubber during Hydrogen Elimination Process by Small Angle X-ray Scattering"
Keiko OHYAMA, Kyushu University

PP10 "Influence of Soft Segment of Polyurethane derived from poriols on the property to High-pressure Hydrogen"
Hirotada FUJIWARA, Kyushu University

PP11 "High-pressure Hydrogen Gas Permeation Test of Polymeric Materials"
Hirotada FUJIWARA, Kyushu University

PP12 "The Investigation on Testing Methods for Rubber Materials Used in High-Pressure Hydrogen Gas"
Kazumi NAKAYAMA, Chemicals Evaluation and Research Institute, Japan

PP13 "Fracture Model Analysis of Rubber O-ring for High-Pressure Gas Seal"
Atsushi KOGA, NOK Corporation

PP14 **"**Effects of cyclic hydrogen pressure on failure and sealing properties of O-ring"
Masashi TAKEKOSHI, NOK Corporation

PP15 "Compound Design of the O-ring materials for Hydrogen Station Devices"
Ryo TAKAHASHI, Takaishi Industry Corporation

PP16 **"**Effect of Crosslink on Hydrogen Properties of NBR Evaluated by Gas Permeation Test"
Shinya YAMASAKI, Kyushu University

PP17 "Internal Damage Quantification of HDPE Induced by Repeated High-Pressure Hydrogen Exposure using Light Extinction"
Hiroaki ONO, Kyushu University