

9th UT² Student Workshop

Tuesday, June 1, 2010

AM1 Session Chair : D. Wei

- 9:30- 9:40 **Opening Remarks**
Prof. T. Kondo, Professor, Univ. of Tokyo
- 9:40- 10:05 **Change of local chemistry during a hydrogen charge-discharge process of Ti-Cr-V alloys**
I. Park , Univ. of Tokyo
- 10:05-10:30 **Microstructural and mechanical characterization of multilayered iron electrodeposits**
C. Chan, Univ. of Toronto
- 10:30-10:55 **Chemical co-treatment of two waste streams: Ni/Co/Cu-containing slag and pyrrhotite tailings**
I. Perederiy, Univ. of Toronto
- 10:55-11:15 **Break**

AM2 Session Chair : M. Sakamoto

- 11:15-12:15 **Invited Talk: An introduction of Leaders of Tomorrow Programme**
Prof. J. Nogami, Professor, Univ. of Toronto
- 12:15-13:30 **Lunch**

PM1 Session Chair : L. Tafaghodi

- 13:30-14:15 **Invited Talk: High sensitive microchip immunoassay based on biocompatible interface**
Prof. M. Takai, Associate Professor, Univ. of Tokyo
- 14:15-14:40 **Multifunctional Nano-Tailored Composites for In Situ Self-Health Monitoring of Aircraft Structures**
J. Wernik, Univ. of Toronto
- 14:40-15:05 **Manipulation and Characterization of Micro and Nanometer-Sized Objects Using MEMS Devices and Micro-NanoRobotic Systems**
B. Chen, Univ. of Toronto
- 15:05-15:25 **Break**

PM2 Session Chair : A. Namazi

- 15:25-15:50 **Numerical modeling of metal nanoparticles and Single-Walled Carbon nanotubes in Induction Thermal Plasma**
S. A. Esfarjani, Univ. of Toronto
- 15:50-16:15 **Experimental and numerical study on thermal decomposition of carbon feedstock during CVD synthesis of single-walled carbon nanotubes**
B. Hou, Univ. of Tokyo
- 16:15-16:40 **Isotropic photonic band gap formation in a photonic amorphous diamond**
S. Imagawa, Univ. of Tokyo
- 16:40-17:05 **Mixed Conduction in Tungsten Phosphate Glass System**
I. Oliva, Univ. of Tokyo

Wednesday, June 2, 2010

AM1 Session Chair : I. Park

- 9:30- 10:15 **Invited Talk: Three-Dimensional Finite Element Analysis on Tightening and Loosening Mechanism of Bolted Joint**
Prof. S. Sakai, Professor, Univ. of Tokyo
- 10:15-10:40 **Smart and Multifunctional Nanostructured Polymers**
R. Rizvi, Univ. of Toronto
- 10:40-11:05 **Microwave-assisted Pyrolysis of Biomass for Porous Carbon Production**
A. Namazi, Univ. of Toronto
- 11:05-11:25 **Break**

AM2 Session Chair : B. Hou

- 11:25-11:50 **Study of the interface passivation in LaLuO₃/Ge MIS gate stacks**
T. Tabata, Univ. of Tokyo
- 11:50-12:15 **Precursors of SiCH film and properties for low-k Cap dielectrics in Back End of Line process of ULSI**
H. Shimizu, Univ. of Tokyo
- 12:15-13:30 **Lunch**

PM1 Session Chair : J. Wernik

- 13:30-14:30 **Invited Talk: A Glimpse of a Great Institution in an Exciting City: The University of Toronto**
Prof. S. Meguid, Professor, Univ. of Toronto
- 14:30-14:55 **Applied quantity metrology based on temporal coherence of a femtosecond optical frequency comb**
D. Wei, Univ. of Tokyo
- 14:55-15:15 **Break**

PM2 Session Chair : S. Imagawa

- 15:15-15:40 **The Local Structure of P and Si in Molten CaO-SiO₂-PO_{2.5} Slag**
M. Sakamoto, Univ. of Tokyo
- 15:40-16:05 **Solvent Refining-Physical Separation of Si: Thermodynamics of Impurity Distribution**
L. Tafaghodi, Univ. of Toronto
- 16:05-16:30 **High yield silicon deposition from SiHCl₃ under mesoplasma condition for a next generation SIEMENS technology**
S. D. Wu, Univ. of Tokyo
- 16:30-16:40 **Closing Remarks**
Prof. K. Morita, Professor, Univ. of Tokyo