

AFI/TFI-2008 Program

Friday, December 19th.

10:00-10:05 Opening Remarks (Sakura Hall, 2F) Chair: Seiji Samukawa, Tohoku University, Japan	
10:05-11:35 Intelligent Nano-process Workshop 1 (Sakura Hall, 2F) Chair: Seiji Samukawa, Tohoku University, Japan	
10:05-10:50	“Application oriented MEMS” Masayoshi Esashi, Tohoku University, Japan
10:50-11:35	“High quality low temperature Plasma CVD SiO film exceed the HTO” Toshihisa Nozawa, Tokyo Electron Technology Development Institute, Japan
11:35-12:30 Lunch	
12:30-13:30 Plenary Lecture 1 (Sakura Hall, 2F) <u>“Carbon Nanotubes: Past, Present and Future”</u> <u>Sumio Iijima, Professor, Meijo University, Japan</u> Chair: Seiji Samukawa, Tohoku University, Japan	
13:30-15:45 Intelligent Nano-process Workshop 2 (Sakura Hall, 2F) Chair: Shigeru Yonemura, Tohoku University, Japan	
13:30-14:15	“Protein supramolecules in the service of nanodevices” Ichiro Yamashita, Nara Institute of Science and Technology, Japan
14:15-15:00	“Nano-scale processing of carbon based materials and their application in electronics” Yang Yang, UCLA, USA
15:00-15:45	“Protein-based nanobio research for medical bionics” Keiichi Torimitsu, NTT Basic Research Laboratories, Japan
15:45-16:00 Break	
16:00-17:00 Plenary Lecture 2 (Sakura Hall, 2F) <u>“One Dimensional Nanomaterials and their Applications”</u> <u>Meyya Meyyappan, Chief Scientist, NASA, USA</u> Chair: Masaharu Shiratani, Kyushu University, Japan	
17:00-18:30 Atmospheric Plasma of Bio and Medical Applications (Sakura Hall, 2F) Chair: Takehiko Sato, Tohoku University, Japan	
17:00-17:45	“Pulsed Power Technology and its Application to Bio Systems” Hidenori Akiyama, Kumamoto University, Japan
17:45-18:30	“Cold Plasma Treatment of Living Tissue: Selected Medical Applications” Eva Stoffels, Eindhoven University of Technology, Netherlands

18:40-20:30 Banquet (Sakura Hall, 1F)

Chair: Makoto Ohta, Tohoku University, Japan

Saturday, December 20th.

9:00-12:00 Micro/ Nanoscale Heat and Fluid Flow (Sakura Hall, 2F)

Chair: Takashi Tokumasu, Tohoku University, Japan

9:00-10:00	“Extended Discrete Element Approach for Complex Fluid Modeling” Mathieu Renouf, INSA-Lyon, France
10:00-11:00	”Nanofluids: Excitement vs. Reality” Pawel Keblinski, Rensselaer Polytechnic Institute, USA
11:00-12:00	“Ion transport in Nanofluidic channels” Hirofumi Daiguji, The University of Tokyo, Japan

12:00-13:00 Lunch

13:00-14:30 Short presentations (Sakura Hall, 2F)

Chair: Jun Ishimoto, Tohoku University, Japan

15:00-17:00 Poster session (Sakura Hall, 1F)

17:00-17:10 Closing Remarks (Sakura Hall, 2F)

Toshiyuki Hayase, Director of Institute of Fluid Science, Tohoku University, Japan