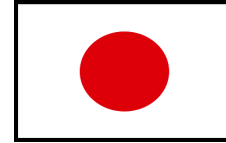




**UNITED STATES – JAPAN
WORKSHOP
ON STANDARDS FOR
EMERGING TECHNOLOGIES**



**Thursday, February 12, 2015
National Institute of Advanced Industrial Science and Technology
(AIST)**

AGENDA

9:30 – 9:35 Opening Remarks

Venue: AIST Tokyo Waterfront Annex 11F

Chair: T. Takatsuji (NMIJ, NIST)

- Magdalena Navarro, Senior International Program Manager, IAAO, NIST
- Toshiyuki Takatsuji, Deputy Director NMIJ, AIST

9:35 – 9:40 Welcome Message

Chair: T. Takatsuji (NMIJ, NIST)

- Yasukazu Fukuda, Director, International Standardization Division, Industrial Science and Technology Policy and Environmental Bureau, Ministry of Economy, Trade and Industry (METI)

Nanotechnology Standardization (10 minutes each)

Chair: T. Takatsuji (NMIJ, NIST)

9:40-10:00 Thickness

- [Yasushi Azuma, Research Scientist, National Metrology Institute of Japan, AIST](#)
Title: “Development of Prototype Reference Material for XRR Measurement and Alignment”
- [Donald Windover, Project Leader, X-Ray Metrology, Ceramics Division, Material Measurement Laboratory, NIST](#)
Title: “The role of AIST/NMIJ Certified Reference Materials in X-ray reflectometry metrology”

10:00-10:25 Thermal properties (15 minutes each)

Chair: T. Takatsuji (NMIJ, AIST)

- [Takashi Yagi, Senior Research Scientist, NMIJ, AIST](#)
Title: “Development of certified reference material of thin film for thermal diffusivity”

10:25-10:55 Nano Form and Nano Size (10 minutes each)

Chair: T. Takatsuji (NMIJ, AIST)

- [Hiroshi Itoh, Senior Research Scientist, Research Institute of Instrumentation Frontier, AIST](#)
Title: *"AFM probe characterization and nano-roughness measurement"*
- [Ndubuisi Orji, Research Engineer, Semiconductor and Dimensional Metrology Division, Physical Measurement Laboratory \(PML\)](#)
Title: *"Characterization Methods for Shape and Length Nanoscale Metrology"*
- [Satoshi Gonda, Chief, National Metrology Institute of Japan, AIST,](#)
Title: *"Calibration procedure for height sensitivity of an AFM using atomic steps"*

10:55-11:15 Nano carbon

Chair: T. Takatsuji (NMIJ, AIST)

- [Toshiya Okazaki, Group Leader, Nano Carbon Research Center, AIST](#)
Title: *Evaluation of Aggregated States of CNTs by Differential Centrifuge Sedimentation*
- [Vivek Prabhu, Materials Science and Engineering Division, Material Measurement Laboratory, NIST](#)
Title: *"Characterization of multi-walled carbon nanotube local structure by small-angle neutron scattering"*

11:15-11:35 3D Imaging

Chair: M. Navarro (IAAO, NIST)

- [Hiroyasu Ujike, Group Leader, Human Technology Research Institute, AIST,](#)
[Hiroshi Watanabe, Senior Research Scientist, Health Research Institute, AIST](#)
Title: *"Effects of 3D display characteristics on visual perception and on Image Safety"*
- John Penczek, Quantum Electronics and Photonics Division, Physical Measurement Laboratory, NIST
Title: *"3-D Display Optical Metrology"*

11:35-12:30 Lunch at

Bio measure

12:30-12:50 DNA

Chair: M. Navarro (IAAO, NIST)

- [Yuji Sekiguchi, Group Leader, Biomedical Research Institute, AIST,](#)
Title: *"Synthetic Spike-in Standards for High-throughput DNA/RNA Measurements"*
- Mark Salit, NIST (Dr. Sekiguchi will present on behalf.)
Title: *"Metrology for Genome-scale Measurements"*

12:50-13:10 Protein

Chair: M. Navarro (IAAO, NIST)

- [Shinya Honda, Deputy Director, Biomedical Research Institute, AIST,](#)
[Title: "Synthetic protein particles as measurement standards for subvisible aggregates: Progress 2014"](#)
- [Wyatt Vreeland, Biomolecular Measurement Division, Material Measurement Laboratory, NIST](#)
[Title: "Molar mass and size measurement of proteins via tandem flow field fractionation-light scattering"](#)

13:10-14:10 Discussion on the future collaboration

14:10-14:30 Closing Remarks

- Magdalena Navarro, Senior International Program Manager, IAAO, NIST
- Toshiyuki Takatsuji, Deputy Director NMIJ, AIST

14:30 Adjourn

18:00 Meeting in front of the hotel

18:30-20:30 Dinner at BOUZ restaurant in Hamamatsucho, Tokyo