

SISS

*The Scientific International Symposium
on SIMS and Related Techniques Based
on Ion-Solid Interactions*

SISS12 Program

Program * Invited speaker

June 10, 2010 (Thu.)

10:00 Opening remarks

M. Kudo Seikei Univ.

10:05-12:15 [[Dynamic SIMS session]]**1* "Towards the ultimate depth resolution limits in SIMS"**

W. Vandervorst Interuniversity Microelectronics Center (IMEC)

2* "Determination of interface position and layer thickness of multilayer films by composition depth profiling"

K. J. Kim Korea Research Institute of Standards and Science (KRISS)

3. "Evaluation of atomic mixing for silicon atoms in silicon isotope superlattices under cesium and oxygen ion bombardments"

M. Tomita Toshiba Corporate Research & Development Center

4* "Isotope analysis by SIMS and material processing"

H. Yurimoto Hokkaido Univ.

(Instrument maker's talk)

5. "Latest developments on NanoSIMS instrumentation for life science and materials"

F. Horréard CAMECA

(12:15-13:10 coffee break)

13:10-14:10 [[Post-Ionization session]]**1* "Development of multi-turn TOF-SIMS system with a femto-second laser for post-ionization"**

M. Ishihara Osaka Univ.

2* “ Detection of polymers using Laser SNMS “

T. Sakamoto Kogakuin Univ.

(14:10-14:25 coffee break)

14:25-16:25 [[Atom probe session]]**1* “ Depth profiling optimization using Atom Probe Tomography “**

F. Vurpillot Univ. of Rouen

2* “ 3D-atom probe: facts, artifacts and applications in semiconductors “

W. Vandervorst Interuniversity Microelectronics Center (IMEC)

3. “ Atom Probe analysis of molecular system ”

M. Taniguchi Kanazawa Inst. of Technology

4. “ Recent progress in laser-assisted 3DAP and its application “

T. Okubo National Institute for Material Science (NIMS)

(Instrument maker’s talk)**5. ” Latest developments on 3D Atom Probe instrumentation for nanoscale elemental analysis “**

F. Horréard CAMECA.

(16:25-16:40 break & transfer to next site)

16:40-18:00 [[Poster session]] (at Hall on the 12th floor, University Building #10)**P1. ” An analysis of the distribution of ferruginol in the heartwood-forming *Cryptomeria japonica* xylem using ToF-SIMS ”**

K. Kuroda Forestry and Forest Products Research Institute

P2. ” Lignin distribution in the xylem of maple by TOF-SIMS molecular imaging ”

K. Saito Nagoya Univ.

P3. ” Simulation of fragmentation of polyethylene glycole by quantum molecular dynamics for TOF-SIMS spectral analysis ”

N. Kato Seikei Univ.

P4. ” TOF-SIMS study of the lipid layer (18-MEA) damage on the outermost hair surface ”

M. Okamoto Kao

P5. ” Emission of a Single Molecule by Argon-Cluster Bombardment behind a Suspended Graphene Sheet ”

S. Nakano Hyogo Univ.

P6. ” Nondestructive Analytical Area Navigation in TOF-SIMS using integrated SEM ”

K. Fujioka Kogakuin Univ.

P7. ” Image Analysis of Small Particles with a Combination of SEM and TOF-SIMS ”

H. Wada Kogakuin Univ.

P8. "SIMS Analysis of Low dose As implantation in SiGe"

Y.H. Huang GLOBALFOUNDRIES

P9. "ToF-SIMS depth profile analysis of sodium in silicon oxide"

D. Kobayashi AGC

P10. "Effect of the uni-molecular dissociation of CsI cluster ions on the apparent mass in the TOF-SIMS of CsI"

T. Nakanaga AIST

P11. "Matrix effect-free depth profiling of multilayered Si/Ti with laser-SNMS"

S. Nishinomiya Nippon Steel

17:00-19:00 Social meeting (at the same place of Poster session)-----
June 11, 2010 (Thu.)**9:00-10:40 [[Cluster Ion beams session]]****1. "Characteristics of the ion source for the electrospray droplet impact ionization method"**

K. Hiraoka Univ. of Yamanashi

2. "Soft-ionization SIMS by using argon cluster ions"

K. Mochiji Univ. of Hyogo

3. "Availability of gas cluster SIMS to biomolecular analysis"

S. Ninomiya Univ. of Yamanashi

(10:20-10:35 coffee break)

10:35-12:05 [[Theoretical approach session]]**1* "SIMS with cluster projectiles as seen by computer simulations"**

Z. Postawa Jagiellonian Univ.

2. "Damage and sputtering with cluster impact by MD simulations"

T. Aoki Kyoto Univ.

3. "A brief report on improving data by multivariate & informatics techniques"

S. Aoyagi Shimane Univ.

4. "Dead time correction methods for the pulse counting detector"

A. Takano NTT Advanced Technology

(12:05-13:10 Lunch break)

13:10-14:50 [[Maldi imaging session]]**1* “Clinical application of metabolite imaging with MALDI and/or SIMS ”**

M. Setou Hamamatsu Univ. School Med.

2* “Breakthrough in Mass spectrometry by superconducting molecule detector ”

M. Okubo Advanced Industrial Science and Technology (AIST)

(Instrument maker’s talks)**3. “ Small Molecular Imaging MS using MALDI-FT-ICR MS ”**

K. Saitou Bruker Daltonics

4. “ Development of Mass Microscope ”

T. Harada Shimadzu

(14:50-15:05 coffee break)

15:05-17:35 [[TOF-SIMS session]]**1* ” TOF-SIMS for bio-analysis above and beyond the static limit “**

J. S. Fletcher Univ. of Manchester

2* ” Investigations and comparisons on Multivariate Analyses for TOF-SIMS Image Analysis “

T. Kono Asahi Kasei

3* “ ToF SIMS study of semi-crystalline polymer surfaces ”

L. T. Weng Hong Kong Univ. of Sci. Technol.

4. “ Advances in 3D TOF-SIMS imaging of organics: from depth profiling to FIB sectioning ”

G. Fisher Physical Electronics

(Instrument maker’s talks)**5. “Recent progress and Application of Gas Cluster Ion Beam “**

T. Miyayama Ulvac-phi

6. “ Recent TOF-SIMS developments at ION-TOF “

M. Terhorst ION-TOF

17:35-17:40 Closing remarks

S. Hayashi Nippon Steel

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