

Workshop on Radiation Effects in Materials

Co-organized by:

*Collaborative Research Station of High-voltage Electron Microscopy
Research Center for Ultra-High Voltage Electron Microscopy,
Osaka University*

January 28th Friday 2011

**Research Center for Ultra-High Voltage Electron Microscopy,
Osaka University**

Workshop on Radiation Effects in Materials

Programme

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Research Center for Ultra-High Voltage Electron Microscopy, Osaka University

9:00-9:10 **Opening Remarks**
*Hidehiro Yasuda (Research Center for Ultra-High Voltage Electron Microscopy,
Osaka University)*

Chair: *Seiichi Watanabe (Hokkaido University)*

9:10-10:10 **Energy Landscape of Radiation Defects in Metals from Ab Initio Electronic
Structure Calculations**
Francois Willaime (CEA/Saclay)

10:10-10:50 **3D Atom Probe Field Ion Microscopy and Positron Annihilation
—Complementary Use for Study of Irradiation Effects in Materials—**
Yasuyoshi Nagai (Tohoku University)

10:50-11:00 Break

Chair: *Francois Willaime (CEA/Saclay)*

11:00-11:40 **Radiation-Induced Sublattice Instability in Ceramic Materials**
Syo Matsumura (Kyushu University)

11:40-12:20 **In Situ TEM/HVEM Study of Dynamic Behaviors of Radiation-Produced
Defects in Metals**
Kazuto Arakawa (Osaka University)

12:20-13:30 Lunch

Chair: *Syo Matsumura (Kyushu University)*

13:30-14:10 **Interactions between Energetic Ions and Solids —Fundamental Study and Their Application to the Modification of Magnetic Properties of Materials—**
Akihiro Iwase (Osaka Prefecture University)

14:10-14:50 **Atomic Displacements Induced by Radiation Causing Electronic Excitations**
Koji Maeda (University of Tokyo)

14:50-15:30 **Laser-HVEM and In-Situ Radiation Experiments**
Seiichi Watanabe (Hokkaido University)

15:30-15:40 Break

Chair: *Hidehiro Yasuda (Osaka University)*

15:40-16:20 **Research Direction of Environmental HVEM on Nano Materials**
Nobuo Tanaka (Nagoya University)

16:20-17:00 **Single Atom Spectroscopy at Graphene Edges**
Kazutomo Suenaga (AIST)

17:00-17:10 **Closing Remarks**
Nobuo Tanaka (Chair of Collaborative Research Station of High-voltage Electron Microscopy)

18:00-20:00 **Dinner**
All the participants, at Senri Hankyu Hotel
