

WUT-NIMS-HHT 4th Joint Seminar, 2013

“Advanced Characterization of Materials: From Organic/Bio Nanoarchitectures to Aircraft”

A Satellite Meeting of NIMS Conference 2013

This is the 4th annual joint seminar organized by three institutions: Warsaw University of Technology (Poland), Hitachi High Technologies Co. (Japan) and National Institute for Materials Science (Japan). The purpose of this event is mainly to share scientific knowledge, experience, opinion in the field of materials science and engineering between academia and industry. The last three joint seminars have brought significant effort in discussion of the recent and anticipated progress in material science, and this time it would be expected with you to have such a meaningful opportunity too. One of other important aims in this event is to encourage our international collaborations between three institutions and between experienced and rather younger researchers including PhD students.

Program 3rd July, 2013, Wednesday @ Epochal Tsukuba, Room101

Chair: Dr. Yoko YAMABE-MITARAI

13:30-13:40 **Opening Remarks**

NIMS President Dr. Sukekatsu USHIODA (NIMS)

Sem-1: 13:40-14:10 Prof. Malgorzata LEWANDOWSKA (WUT)

Title: Combination of grain size refinement and precipitation strengthening in 7475 aluminium alloy for aircraft application

Sem-2: 14:10-14:40 Dr. Hideaki KITAZAWA (NIMS)

Title: Neutron scattering study toward to development of energy-efficient environment-friendly refrigeration technology

Sem-3: 14:40-15:10 Prof. Wojciech SWIESZKOWSKI (WUT)

Title: X-ray tomography as a powerful tool for characterization of advanced biomaterials and tissue-engineering constructs

15:10-15:30 **Coffee Break**

Chair: Dr. Akiko YAMAMOTO

Sem-4: 15:30-16:00 Mr. Mitsuru Konno (HHT)

Title: Advanced technique of high resolution and low damage STEM imaging

Sem-5: 16:00-16:30 Dr. Yoko YAMABE-MITARAI (NIMS)

Title: Improvement of oxidation resistance of High temperature structural Ti alloys

Sem-6: 16:30-17:00 Prof. Anna BOCZKOWSKA (WUT)

Title: Different routes of incorporation of CNTs into fibre reinforced polymer matrix composites

Sem-7: 17:00-17:30 Dr. Takashi NAKANISHI (NIMS)

Title: Nonvolatile, Room Temperature Functional Organic Liquids

17:30-17:40 **Closing Remarks**

Dr. Yoko YAMABE-MITARAI (NIMS)

[Time Frame: 25 min Presentation and 5 min Discussion]