

**The JSPS-DST  
Asia Academic Seminar 2009**

“Advanced Materials for Sustainable Development”

Dec. 6 – 15, 2009

Yokohama Symposia, Yokohama Media and Communications Center

[Organizing Committee] G. Sundararajan (International Advanced Research Centre for Powder Metallurgy and New Materials, India); Atsushi Suzuki (Yokohama National University, Japan); The invited lecturers from India and Japan.

[Advisory Committee] C.N.R. Rao (Centre of Excellence in Chemistry, Chemistry and Physics of Materials Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, India); Keitaro Yoshihara (Tokyo Metropolitan University, Japan); Masao Doyama (Teikyo University of Science and Technology, Japan).

[Funding Organizations] Japan Society for the Promotion of Science (JSPS), Japan; Department of Science and Technology (DST), India; Yokohama National University, Japan

[General Secretary Office of AAS2009] Yokohama National University, Japan

[Lectures] 23 invited speakers (6 from India, 16 from Japan and 1 from Nepal)

[Posters] 40 poster presenters (17 from India, 21 from Japan including 4 Indian, 2 Nepalese, 1 Chinese and 1 Vietnamese, 1 from Nepal and 1 from Korea)

[Audience] 4 participants from Japan (2 Indian, 1 Bangladeshese and 1 Japanese)

[Special guests] 4 members from JSPS, including Mr. N. Murata, Executive Director of JSPS.

[Program]

Plenary: 2 lectures (M. Doyama; G. Sundararajan)

Ecomaterials & Smart Structure: 7 lectures (R. Yamamoto; K. Halada; U.V. Varadaraju; T. Koseki; K. Chattopadhyay; K. Hono; R.R. Pradhananga)

Nano Architect: 5 lectures (K. Terashima; A.J. Pal; O. Takai; K. Ariga; K. Ushida)

Poster session: Poster presentations; Discussion (2 hours) after short presentations by all presenters.

Computer Design: 2 lectures (M. Kohyama; T. Nishimatsu)

Functional Materials I: 3 lectures (V. Jayram; T. Endo; N. Kishimoto)

Functional Materials II: 4 lectures (T.N. Rao, S. Arisawa; T. Tsurumi; A. Suzuki)

[Other activities]

Eco-tour to Mt. Fuji, visiting the Oshino Village to see a Japanese original landscape.

Visiting the National Museum of Emerging Science and Innovation (Miraikan) that links people directly with the new wisdom of the 21st century & Eco-tour to "the 11th Eco-Products 2009" at Tokyo International Exhibition Center (Tokyo Big Sight, Tokyo, Japan).

Laboratory-tour No. 1 to the National Institute for Materials Science (NIMS), (Tsukuba, Japan),

Laboratory-tour No. 2 to the National Institute of Advanced Industrial Science and Technology (AIST) (Tsukuba, Japan)

[Summary]

The JSPS-DST Asia Academic Seminar 2009 was held in Yokohama, Japan from December 8<sup>th</sup> to 15<sup>th</sup>, 2009. The purpose of the seminar was to provide young scientists from Asian countries with chances to exchange information of scientific research under the support of JSPS of Japanese Government in collaboration with DST of India.

The objectives of the seminar were; 1) to discuss and share the recent achievements and innovations in the fields of advanced materials research and technology in the world, particularly in India and Japan, 2) to promote interest in the application of various kinds of materials for a sustainable society especially related with the environment-conscious materials and technologies, 3) to facilitate interactions between researchers from industry, national laboratory and academia for the future international collaborations, and 4) to encourage young scientists and engineers to pursue future professional careers in the materials research, engineering and technology.

This year the seminar covered progress in the recent achievements and innovations in the fields of advanced materials research and technology for a sustainable future in the world. 23 leading scientists were invited to give the series of lectures focusing on the special subjects, including Ecomaterials for Sustainable Development, Smart Structures, Energy and Nano Architect, Computer Aided Materials Design, and Functional Materials. During the seminar, a poster session was also held, in which 40 young participants were requested to present their own research to encourage the mutual interaction and future collaboration between the participants. Overall the scientific standard was very high, and the qualities of research works conducted by young participants were very high. The proceedings will be published partly in *Advanced Materials Research*, Trans. Tech. Pub. Inc. after a peer-review. We believe that this year seminar was successful. (Atsushi Suzuki)





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