

Dear Colleagues,

On behalf of the committee working on 'Research and development activities of metal and alloyed nanoparticles based technologies in Japan and the USA' I, Tohji Kazuyuki of Graduate School of Environmental Studies, cordially invite you to participate in the International symposium on 'Metal and Alloy Nanomaterial Based Applied Technologies in Japan-US'. Please find the details below:

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## International Symposium on Metal and Alloy Nanomaterial Based Applied Technologies in Japan and the USA

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*Sponsored by New Energy Development Technology, Japan*  
12th January 2006 • Tohoku University • Sendai, Japan

**Conference Chairs:** Tohji Kazuyuki, Tohoku University, Japan; Achyut K. Dutta, Banpil Photonics, Inc., US;

**Program Committee:** Balachandran Jeyadevan Tohoku University, Sendai, Japan, M. Saif Islam, University of California, Davis, USA; Saito Kazuya, Dowa Mining Co. Ltd. Japan; Sato Yoshinori, Tohoku University, Sendai, Japan

UC Davis (USA) and Tohoku University (Japan) in collaboration with a few private companies in Japan and the USA are currently conducting a survey on the "Research and development activities of metal and alloyed nanoparticles based technologies in Japan and the USA" under the international research grant sponsored by New Energy and Industrial Technology Development Organization (NEDO). The project period is from August 2005 till February 2006. The survey will work towards identifying the existing issues, possible challenges, and future directions in the research of metal and alloy nanoparticles. At the end of the project period, we are expected to prepare a report that envisages a research proposal for the synthesis of oxidation resistant highly crystalline metal and alloy particles for bio and engineering applications. We believe that in the cases of metal and alloy nanoparticles the main challenges ahead can be identified as (a) the development/identification of the synthesis techniques for the preparation of highly crystalline nanoparticles, (b) prevention of surface oxidation of metal and alloy nanoparticles, and (c) bio and engineering applications. Besides the literature survey, we plan to hold a one-day symposium/meeting by inviting scholars from the USA and Japan in the fields of nanoparticles synthesis, surface modification and applications.

**We will be concentrating on, but not limited to, the following three areas:**

- Development/identification of the synthesis techniques for the preparation of highly crystalline nanoparticles,
- Prevention of surface oxidation of metal and alloy nanoparticles
- Bio, electronic, photonic and other engineering applications

**Abstract Due Date: -21<sup>st</sup> November, 2005**  
**Manuscript Due Date: -21<sup>st</sup> December, 2005**

Your abstract and Manuscript submission must include all of the following:

1. **PAPER TITLE**

2. **AUTHORS** (principal author first) For each author:

- First (given) Name
- Last (family) Name
- Affiliation
- Mailing Address
- Telephone Number
- Fax Number
- Email Address

3. **PRINCIPAL AUTHOR'S BIOGRAPHY** Approximately 50 words.

4. **ABSTRACT TEXT** Approximately 250 words.

5. **KEYWORDS** Maximum of five keywords.

6. **Manuscript** Minimum six pages (including figures)

**You are requested to submit the electronic version of the abstract and manuscript directly to**

**Balachandran Jeyadevan, Tohoku University, Sendai, Japan**

**jeya@mail.kankyo.tohoku.ac.jp**

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