



Nanostructures Research Laboratory

*Japan Fine Ceramics Center*

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## *Call for Poster Papers at AMTC1*

**Dear colleague,**

The 1st International Symposium on Advanced Microscopy and Theoretical Calculations (AMTC1) will be held from June 29 to 30, 2008 at the Nagoya Congress Center, Nagoya, Japan.

This symposium will be held in commemoration of the establishment of the Nanostructures Research Laboratory at the Japan Fine Ceramics Center, and plans are also being made to hold a similar symposium every other year. The purpose of the 2008 symposium is to bring together leading scientists and engineers from all over the world in order to discuss in depth a specific theme related to latest developments in microscopy and in computational techniques used both for nanostructure analysis and for the design of advanced materials. Coverage of topical subjects is confidently expected to lead to future breakthroughs in materials science and engineering, and ultimately to be of benefit to environmental protection and to sustainable development throughout the world. The first symposium will take the form of approximately 25 oral talks by invited speakers. Poster presentations are also planned.

Participants are encouraged to present their recent research at a poster session of the symposium.

Extended abstracts of a length of two pages should be submitted before March 31, 2008.

Chairpersons: T. Hirayama, Y. Ikuhara, I. Tanaka

### Symposium topics

The symposium covers all relevant fields in advanced microscopy and theoretical calculations:

- \*High Resolution Electron Microscopy (HREM),
- \*Scanning Transmission Electron Microscopy (STEM),
- \*Electron Holography,
- \*Nano-scale spectroscopy with the use of EELS, EDS and XAFS,
- \*Theoretical Spectroscopy,
- \*Advanced Techniques in Electron Microscopy,
- \*Environmental Microscopy,

- \*Interface and Grain Boundaries,
- \*Lattice Imperfections,
- \*First Principles Theory and Modeling,
- \*Materials Informatics,
- \*Fundamental Issues in Materials Science,
- \*Scanning Probe Microscopy.

### Tentative invited speakers

#### Interface and Grain Boundaries

- C. B. Carter (Univ. Minnesota)
- S. Pennycook (ORNL)
- U. Dahmen (LBL)
- N. D. Browning (UCDavis/ LLNL)
- Y. Ikuhara (Univ. Tokyo/JFCC)

#### Electron Holography

- A. Tonomura (Hitachi)
- T. Tanji (Nagoya Univ.)
- H. Lichte (Dresden Univ.)
- R. Dunin-Borkowski (Technical Univ. Denmark)
- M. McCartney (Arizona State Univ.)
- Y. Zhu (Brookhaven National Laboratory)
- T. Hirayama (JFCC)

#### Advanced Spectroscopy

- C. Colliex (Univ. Paris)
- J. J. Rehr (Univ. Washington)
- M. Terauchi (Tohoku Univ.)
- G. A. Botton (McMaster Univ.)
- S. Muto (Nagoya Univ.)

#### Modeling and Simulations

- G. Ceder (MIT)
- P. Blaha (TU Vienna)
- M. Kohyama (AIST)
- I. Tanaka (Kyoto Univ./JFCC)

## Materials Science

S. Iijima (Meijyo Univ.)  
C. Bréchnac (CNRS)  
N. Tanaka (Nagoya Univ.)  
O. Terasaki (Stockholm Univ.)  
J. Yuan (Tsinghua Univ.)  
P. Pirouz (Case Western Reserve Univ.)  
X. Pan (Univ. Michigan)  
K. Furuya (NIMS)

## Abstract preparation

Author should prepare two page of extended abstract which include significant result with pictures and figures.

Please find attached file (sample.doc) as a sample for extended abstract.

Abstract should be converted into one pdf file, ready to print style.

## Abstract submission

Please send your abstract (pdf file) via E-mail.

E-mail: [amtcl@jecs.org](mailto:amtcl@jecs.org)

## Requests for further information

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## Important date

**Abstract submission deadline: March 31 2008**

Symposium: June 29 to 30, 2008

Detailed information is available on our web page.

URL: <http://jecs.org/amtcl/index.html>