

Call for papers

MIT-Tohoku “21COE” Joint Workshop on Nano Science in Energy Technology

With Emphasis on Transport and Reactions in or on Solids

Massachusetts Institute of Technology, Cambridge, USA
September 27-28, 2004

Scope of the workshop

This workshop will focus on nanometer scale phenomena that may affect the performance and reliability of various energy conversion systems, such as batteries, fuel cells, solar cells, nuclear reactors, etc. The workshop will provide an opportunity for researchers from Tohoku University and MIT to meet and to exchange recent research results in the field of nano-materials science and nano-mechanical science. In particular, this will be an ideal opportunity for young researchers and PhD students to present their work and to expand their experience and knowledge to make further steps in their future work.

This workshop is supported by the “21 century COE program, The Exploration of the Frontiers of Mechanical Science Based on Nanotechnology”.

(http://pm.mech.tohoku.ac.jp/21COE/21stCOE_e.htm)

Topics

Mass / charge transport, Gas/solid reaction, Fuel cells, Batteries, Solar cells, Corrosion, etc.

Tutorial lectures

Harry Tuller, “Potential impact of nano-materials science on energy related technologies”

Tetsuo Shoji, “Nano Science based Safety Science in Energy Technology”

Keynote speakers

Bernhardt Wuensch, Ronald Ballinger, Yang Shao-Horn (MIT)

Hiroo Yugami, Toshiyuki Hashida, Hitoshi Takamura, Tatsuya Kawada (Tohoku University)

Preliminary program

September 27 (Monday)

10:00 -12:00 : Opening session, Tutorial lectures

13:00 -17:00 : Keynote & contributed papers

17:30 -18:30 : Poster session I

September 28 (Tuesday)

9:00 - 12:00 : Keynote & contributed papers

13:00 - 15:00 : Keynote & contributed papers

15:30 - 16:30: Poster session II

16:30 - 18:00: Lab. tour and extended discussion

Conference site

The workshop will be held on the MIT campus. Exact location will be announced with the final program.

Presentations

Contributed papers will be presented in oral sessions. The authors are strongly recommended to present the same (or related) subjects in poster as well, for in-depth discussion. (Most simply, printed sheets of the oral presentation materials may be put on the poster board.) Proceedings booklet will be distributed to the participants at the workshop. Further information on presentation and manuscript preparation will be informed to the registered authors.

Important dates

Abstract submission (200 words): August 15, 2004
Proceedings manuscript submission (2 to 6 pages): August 31, 2004
Final program will be announced by September 10, 2004.

Abstract submission / Registration

Registration will be made by submitting the abstract in the following form via e-mail to kawada@tagen.tohoku.ac.jp

Name _____
Title _____
Organization _____
Address _____
Phone _____ Fax _____
E-mail _____

Title of the presentation _____

Presentation type () **oral & poster**, () oral, () poster

Abstract (~200 words)

Information for the participants from Tohoku University

Information on hotels close to MIT campus is found on the following web sites:

<http://www.media.mit.edu/contact/hotels.html>

<http://web.mit.edu/cao/www/hotels2003/cambridge2003.htm>

http://web.mit.edu/housing/other/guest_houses.html

(The direct links to the hotels seem not to work, but when you copy the address directly into your browser, it works.)

<http://web.mit.edu/admissions/www/undergrad/visitinghotels.html>

Organizing committee

Harry Tuller, Anja Bieberle (MIT)

Tetsuo Shoji, Hiroo Yugami, Hideo Miura, Tatsuya Kawada (Tohoku)

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