

TMS 2006 **ELECTRONIC MATERIALS CONFERENCE**

June 28-30, 2006

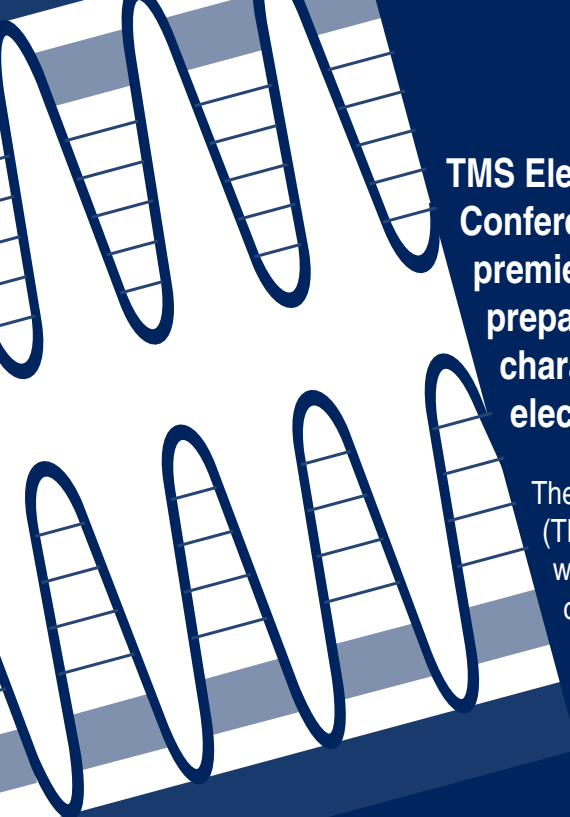
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TMS

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TMS Electronic Materials Conference (EMC)...the premier annual forum on the preparation and characterization of electronic materials.

The Minerals, Metals & Materials Society (TMS) proudly sponsors the 48th EMC which presents both invited and contributed oral presentations, an exhibition and related activities.

Who Attends?

Students, professors, scientists, engineers, researchers, technicians, R&D managers, and product managers.

Call for Papers

Electronic materials relate to, are produced, or are operated by the controlled flow of electrons through a semiconductor, a gas, or free space. They also relate to devices, systems, or circuits that employ components such as vacuum tubes, integrated circuits, or transistors in their design. However, in practice, the field is much broader.

Individuals actively engaged or interested in electronic materials research and development are encouraged to submit papers.

Abstract Submission Deadline: February 3, 2006

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Papers

How to Submit an Abstract

Prospective authors must submit abstracts by February 3, 2006, using CMS-Plus, the online TMS Conference Management System. Abstracts may be submitted – day or night – at <http://cmsplus.tms.org>. Conference organizers receive electronic notification of all abstract submissions upon entry. Follow the online instructions for electronic submission and direct communication with the conference organizers.

Abstracts must reveal and demonstrate reasonable scientific content. Abstracts describing work that has not been released for public disclosure are not accepted. Students must clearly mark their abstracts as student papers. The abstracts must also satisfy the format guidelines.

New This Year

Authors are welcome to submit an additional abstract page to assist organizers in most effectively considering the material planned for presentation. The additional information (referred to as “extended abstract” in CMS-Plus) can be uploaded as a Microsoft Word or PDF file attachment at the time of initial abstract submission. (Only the required 450-word abstract will be printed in the program book.)

For assistance, contact TMS:

Christina Raabe, Manager, Technical Programming
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Late News Papers

Late News Papers will be considered between March 15 and June 2, 2006. To submit a Late News Paper, authors must visit the “EMC Conference” in CMS-Plus and select “Late News.” Formatting instructions noted previously apply.

Author Requirements

Authors are expected to present their papers in person at the conference. If an author must be absent or withdraw a paper, the program chair must be notified well in advance.

Publication of Papers

Conference abstracts are published in the Journal of Electronic Materials. Authors are strongly encouraged to submit full-length manuscripts to the

Journal of Electronic Materials. Details on manuscript submission will be included in the EMC Advance Program and are available on the Web at www.tms.org/jem.html.

EMC/DRC

EMC is coordinated with the Device Research Conference (DRC) held June 26-28, 2006, at the Pennsylvania State University. The coordinated efforts are made in recognition of the strong interaction between electronic materials and device research. This coordination provides for maximum exchange of information between attendees of both conferences. Inquiries about DRC should be forwarded to:

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Abstracts submitted to DRC may not be submitted to EMC.

For more information about EMC, contact TMS:

TMS Meeting Services
184 Thorn Hill Road
Warrendale, PA 15086 USA
Telephone: (724) 776-9000, ext. 243, or (800) 759-4TMS
Fax: (724) 776-3770
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Note: Registration and housing information will be available from TMS in April 2006.

For Students

Awards

The top 5 percent of student papers at EMC receive the EMC Best Student Paper Award. The award is based on both the written abstract and the oral presentation.

Assistance

The TMS Electronic Materials Committee has allocated funds for assistance to students making oral presentations at the conference. Those wishing to be considered must submit an application no later than June 2 to:

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Technical Program

Papers are solicited in the specific areas listed below.

Wide Bandgap Materials

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Zinc Oxide: Growth, Doping, Defects, Nanostructures and Devices

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Silicon Carbide: Growth, Processing, Characterization, Theory and Devices

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Point Defects, Extended Defects and Doping in Wide Bandgap Materials

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Nanoscale Science and Technology in Materials

Low-Dimensional Structures: Quantum Dots, Wires and Wells

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Nanoscale Characterization: Scanned Probes, Electron Microscopy and Other Techniques

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Molecular Electronics: Devices, Materials and Contacts

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Nanotubes and Nanowires

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Chemical and Biological Sensors: Materials, Interfaces and Integration

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Point and Extended Defects in Mismatched Materials

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Materials Integration: Wafer Bonding and Alternative Substrates

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Oxide Thin Film Integration: Alternative Dielectrics, Epitaxial Oxides and Metal Gates

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Si-Based Heterojunctions and Strained Si: Growth, Characterization and Applications

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Narrow Bandgap Semiconductors: Antimonides and Other Materials

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Indium Nitride: Growth, Processing, Characterization, Theory and Devices

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Spin-Dependent (or Spintronic) Electronic Materials

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Flexible Thin Film Electronics

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Organic Thin Film and Crystalline Transistors: Devices, Materials and Processing

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Other/New Areas

Organic-Inorganic Hybrid Photovoltaic

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Materials and Novel Concepts for UV Detectors

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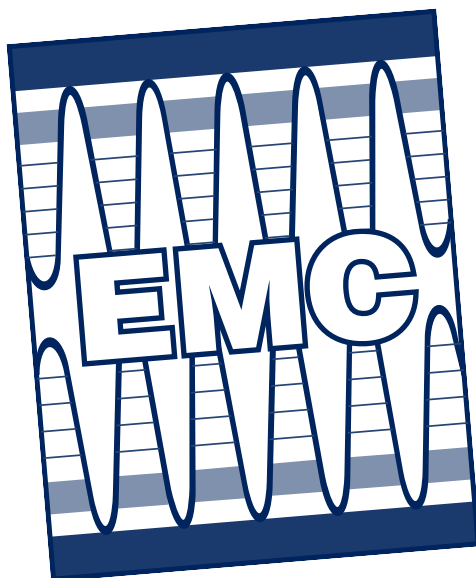
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Dates to Remember:

February 3, 2006..... Abstract Submission Deadline
April 4, 2006..... Author Notification of Acceptance
June 2, 2006..... Early Registration Deadline
June 27, 2006..... Welcoming Reception



Attention Suppliers of Technology for Preparation and Characterization of Electronic Materials

Be a part of the unique showcase at the EMC Technological Exhibit!

Reach more than 500 professionals from industry, government laboratories and academia looking for these products and services:

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- III-V materials
- Materials characterization
- MOCVD
- Optoelectronics
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- Wafer processing equipment
- Wide bandgap semiconductors

The program, audience and exhibition combine for an unsurpassed annual event in electronic materials.

Be there - reserve your exhibit space today online at www.tms.org/EMC.html or contact TMS:

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TMS

The Minerals, Metals & Materials Society (TMS) is the professional organization encompassing the entire range of materials in science and engineering, from minerals processing and primary metals production to basic research and the advanced applications of materials.

Included among its professional and student members are metallurgical and materials engineers, scientists, researchers, educators and administrators from more than 70 countries on six continents. TMS' mission is to promote the global science and engineering professions concerned with minerals, metals and materials.

To learn more, visit www.tms.org.

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