

CALL FOR PAPERS

APPLIED SUPERCONDUCTIVITY CONFERENCE

Chicago, Illinois U.S.A.

August 17 – 22, 2008

Abstract Submission Deadline: Friday, February 1, 2008 (Midnight, EST, USA)

The Applied Superconductivity Conference[®], **ASC 2008**, will be held at the Hyatt Regency hotel in Chicago from Sunday, August 17 through Friday, August 22, 2008. ASC, the premier conference on applied superconductivity, will include invited talks, oral and poster contributions and exhibitions that will present the latest developments in this field.

Contributed papers are solicited in all areas of applied superconductivity. Please review the list of technical submission categories for a complete listing. Interested authors must submit an abstract to the conference by **February 1, 2008 (Midnight, EST, USA)**. **ALL ABSTRACTS MUST BE SUBMITTED ELECTRONICALLY TO THE ASC 2008 WEBSITE: WWW.ASCINC.ORG**. This site will provide detailed instructions on abstract preparation and submission as well as information regarding the conference site, registration, hotel reservations, and the city of Chicago.

Abstract Submission:

The ASC will **ONLY** accept abstracts electronically. They must be submitted to the conference website: **www.ascinc.org**. All information regarding the format of the abstracts and submission categories can be found at this web site. **The deadline for submission is February 1, 2008 (Midnight, EST, USA)**. This deadline will be strictly observed and the website will not accept abstracts after this deadline. Abstracts that are **NOT** submitted to the conference website by February 1, 2008 will only be considered at the discretion of the program chairs.

Presentations and Publications:

Contributed papers accepted for the conference will be presented in either oral or poster sessions. All presentations must be in English. The presenting author must be a registered participant. Multiple submissions by an author are acceptable, but the registration fee covers only one paper submission per registered participant. Any additional papers will be charged a fee. The accepted papers are scheduled to be published in the Summer 2009 issue of the *IEEE Transactions on Applied Superconductivity*, and as such will be subject to the usual peer review procedures of the Transactions. Instructions for manuscript preparation will also be made available on the website.

Hotel:

ASC 2008's host hotel is the Hyatt Regency Chicago. A limited number of rooms are being held for ASC'08 attendees. More information in regards to accommodation will be available on the conference website at the beginning of April.

Exhibits:

A technical exhibition of materials, services, instruments and literature will take place during the conference. If you or your company are interested in exhibiting or would like to receive additional information about the ASC 2008 Exhibition, you may visit the conference website or contact Centennial Conferences, Phone: (001) 303-499-2299, Fax: (001) 303-499-2599, E-mail: asc@centennialconferences.com.

Information:

Complete details regarding hotel reservations and conference registration fees, along with the necessary forms, will be available on the Conference website. For additional information, please contact:

Centennial Conferences
Telephone: (001) 303-499-2299

E-mail: asc@centennialconferences.com
Fax: (001) 303-499-2599

VISA Requirements:

Citizens of countries outside of the U.S. must carry a valid passport and may be required to obtain a visa to enter the U.S. Foreign participants should contact the United States Embassy, Consulate or Office of Tourism in their home country as soon as possible to determine their individual visa requirements. **ASC 2008 CANNOT INTERVENE** with either U.S. Embassies abroad or with the State Department in Washington, DC, on behalf of any participant. However, if you need a personal letter of invitation to attend the Conference, contact Centennial Conferences (e-mail: asc@centennialconferences.com; Fax: 001/303-499-2599) and provide your complete mailing address and fax number. Your letter will be **MAILED TO YOU**, so request it well in advance of when you expect to need it.

TECHNICAL SUBMISSION CATEGORIES

LARGE SCALE SORTING CATEGORIES

L1 Magnets and Devices for Science and Research

- L1.1 Very High Magnetic Field Magnets (LTS and/or HTS)
- L1.2 Detector Magnets
- L1.3 Accelerator Magnets: Beam-Guiding and Focusing Magnets
- L1.4 Accelerator Magnets: Other (Wigglers, Undulators, Solenoids, etc.)
- L1.5 SRF Cavities
- L1.6 Fusion
- L1.7 Fusion-ITER
- L1.8 NMR Magnets

L2 Power Applications of Superconductivity

- L2.1 SMES
- L2.2 Motors and Generators, MHD
- L2.3 Transformers
- L2.4 Power Transmission Cables
- L2.5 Fault Current Limiters: Resistive Type
- L2.6 Fault Current Limiters: Other Types
- L2.7 Other Power Gear
- L2.8 System Studies for Superconducting Devices (e.g., HTS Applications on the Power Grid)

L3 Industrial and Commercial, Levitation, Transportation and Other Novel Applications

- L3.1 Magnetic Separation
- L3.2 MRI
- L3.3 Maglev
- L3.4 Bearings and Flywheels
- L3.5 Current Leads
- L3.6 Other Novel Applications (e.g., Innovative Medical Applications, Magneto-Aerodynamics, Biological, Environmental, etc.)

L4 Magnet Science and Technology

- L4.1 Stability, Magnet Protection and AC Losses (LTS)
- L4.2 Stability, Magnet Protection and AC Losses (HTS)
- L4.3 Conductor Development and Test
- L4.4 Small Test Coils and Demonstrators
- L4.5 Superconducting Magnet Design (Design Tools, Novel Configurations, etc.)
- L4.6 Novel Measurements, Instrumentations, and Computations

MATERIALS SORTING CATEGORIES

M1 Wires and Tapes

- M1.1 Bi-2212 and Bi-2223 Wires and Tapes
- M1.2 Coated Conductor: Substrates and Buffers
- M1.3 Coated Conductor: HTS Processing
- M1.4 Coated Conductor: Pinning Techniques
- M1.5 Coated Conductors: Long Lengths and Scale-Up
- M1.6 Other HTS Wires and Tapes
- M1.7 MgB₂ Wires and Tapes: Processing and Properties
- M1.8 Nb₃Sn Wires and Tapes: Processing and Properties
- M1.9 Nb₃Al and Other A₁₅ Wires and Tapes
- M1.10 Nb-Ti and Other Ductile Wires and Tapes

M2 Films and Multilayers

- M2.1 HTS Thin Films and Devices
- M2.2 HTS Multilayers and Interfaces
- M2.3 Large Area Films
- M2.4 LTS Thin Films and Multilayers
- M2.5 MgB₂ Thin Films and Multilayers
- M2.6 Thin Films: Substrate and Buffer Layers
- M2.7 Films for SRF Cavities

M3 Bulk Superconductors

- M3.1 HTS Bulk
- M3.2 MgB₂ Bulk
- M3.3 LTS Bulk
- M3.4 Nb for SRF Cavities
- M3.5 Novel Materials

M4 Property Characterizations

- M4.1 AC Losses: HTS and MgB₂
- M4.2 AC Losses: LTS
- M4.3 AC Losses: General and Others
- M4.4 Microwave Properties and Characterization
- M4.5 Stability Issues
- M4.6 Flux Pinning and Flux Dynamics: HTS and MgB₂
- M4.7 Flux Pinning and Flux Dynamics: LTS
- M4.8 Flux Pinning and Flux Dynamics: General and Others
- M4.9 Mechanical Properties
- M4.10 Thin Film Characterization
- M4.11 Bulk Characterization
- M4.12 Wire and Tape Characterization
- M4.13 Other Measurement Techniques
- M4.14 Electrical Insulation for Superconducting Electrical Power Devices and Systems
- M4.16 Novel Dielectric Materials: Nano-Composites

ELECTRONICS SORTING CATEGORIES

E1 Device Fabrication (Circuits and Junctions)

- E1.1 LTS Fabrication
- E1.2 HTS Fabrication
- E1.3 Medium Temperature Superconductor (MTS = e.g., MgB₂ or other Borides) Fabrication

E2 Circuits and Systems

- E2.1 Circuits for Digital Applications
- E2.2 Circuits for Mixed-Signal Applications (Analog + Digital, e.g., A/D Converters)
- E2.3 Circuit Design Methods and Techniques
- E2.4 Multi-Chip and System-Level Design or Implementation

E3 SQUIDs

- E3.1 LTS SQUIDs Fabrication and Characterization
- E3.2 HTS SQUIDs Fabrication and Characterization
- E3.3 SQUID NDE
- E3.4 Biomagnetism
- E3.5 SQUID Microscopy & NanoSQUIDs
- E3.6 Other SQUID Applications

E4 Mixers/Detectors and Readout Circuits

- E4.1 TES - Physics
- E4.2 TES - SQUIDs and Readouts
- E4.3 TES - Applications
- E4.4 Superconducting Microresonator Detectors (MKIDs, etc.)
- E4.5 Junction Detectors and Mixers
- E4.6 Nanowire Detectors
- E4.7 Novel Detectors and Sensors

E5 Microwave Devices and Applications

- E5.1 Passive Microwave Components and Systems
- E5.2 Active Microwave Components and Systems

E6 Novel Devices and Applications

- E6.1 Novel Junction Applications
- E6.2 Novel Devices and Instruments
- E6.3 Novel Systems

E7 Quantum Computing

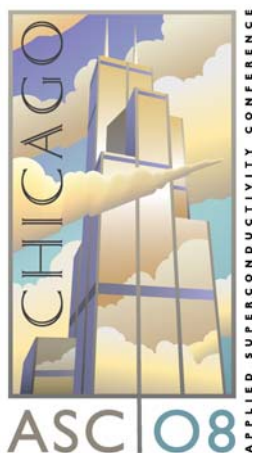
- E7.1 Superconductor Qubits and Circuits
- E7.2 Superconducting Control/Readout of Qubits

E8 System Integration and Applications

- E8.1 System Integration, Thermal Management and Packaging
- E8.2 System Applications: Economics or Market Analysis

IMPORTANT DATES TO REMEMBER

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|----------------------------|-----------------------------------------------|
| November 1, 2007 | On-line Abstract Submission Open |
| February 1, 2008 | On-line Abstract Submission Deadline |
| March 31, 2008 | Emailed Notification of Abstract Acceptance |
| April 1, 2008 | Registration/Hotel On-line Reservations Open |
| July 7, 2008 | Early Registration/Hotel Reservation Deadline |
| August 1, 2008 | Pre-Registration Deadline |
| August 17- 22, 2008 | Conference |
| August 19, 2008 (5 PM) | Manuscript Submission Deadline |



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