

CALL FOR ABSTRACTS & PAPERS

APPLIED SUPERCONDUCTIVITY CONFERENCE

Washington, D.C., USA

August 1 – 6, 2010

Abstract Submission Deadline: Friday, February 26, 2010 (Midnight, EST, USA)

****This deadline is firm!****

The Applied Superconductivity Conference[®], **ASC 2010**, will be held at the Omni Shoreham hotel in Washington from Sunday, August 1 through Friday, August 6, 2010. 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 26, 2010, Midnight, EST, USA. ALL ABSTRACTS MUST BE SUBMITTED ELECTRONICALLY TO THE ASC 2010 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 Washington.

Abstract Submission:

The ASC will **ONLY** accept abstracts electronically. They must be submitted to the Conference submission site. All information regarding the format of the abstracts and submission categories can be found on the Conference website. **The deadline for submission is February 26, (Midnight, EST, USA).** This deadline will be **STRICTLY** observed and the submission site will not accept abstracts after this deadline. Abstracts that are **NOT** submitted to the Conference submission site by February 26, 2010 will only be considered at the discretion of the program chairs.

Presentations and Publications:

Abstracts 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 incur a fee. The accepted papers are scheduled to be published in the Summer 2011 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 Conference website.

Hotel:

ASC 2010's host hotel is the Omni Shoreham Washington. A limited number of rooms are being held for ASC'10 attendees. More information in regards to accommodation will be available on the Conference website.

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 2010 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 about the Conference (abstract submission, hotel reservations, conference registration fees, technical program, etc. along with the necessary forms) will be available on the Conference website at <http://www.ascinc.org>. 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 2010 CANNOT INTERVENE** with either U.S. Embassies abroad or with the State Department in Washington, D.C. 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
 - L1.9 CICC
 - L1.10 Bulk Superconductors
 - L1.11 HTS-base 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 Wires and Tapes
 - M1.2 Bi-2223 Wires and Tapes
 - M1.3 Coated Conductor: Design, Processing, and Performance
 - M1.4 Coated Conductor: Mitigation of AC loss
 - M1.5 Coated Conductor: Substrates
 - M1.6 Coated Conductor: Buffers
 - M1.7 Coated Conductor: Processing Methods
 - M1.8 Coated Conductors: Long Lengths and Scale-up
 - M1.9 Other HTS Wires and Tapes
 - M1.10 Flux-Pinning Improvement in HTS Wires and Tapes
 - M1.11 MgB₂ Wires and Tapes: Design, Processing and Performance
 - M1.12 MgB₂ Wires and Tapes: Microstructure, Doping, and Properties
 - M1.13 Nb₃Sn Wires: Design, Processing and Performance
 - M1.14 Nb₃Sn Wires: Strain and Fatigue
 - M1.15 Nb₃Sn Wires: Microstructure and Properties
 - M1.16 Nb₃Al and Other A-15 Wires and Tapes
 - M1.17 Nb-Ti and other Ductile Wires and Tapes
 - M1.18 LTS - Mitigation of AC Losses
 - M1.19 Wire and Tape Structural Characterization and Quality Assurance
- M2 Films and Multilayers**
 - M2.1 HTS Thin Films: Synthesis, Structure
 - M2.2 HTS Multilayers and Materials Integration Issues
 - M2.3 Substrate and Buffer-Layer Issues
 - M2.4 LTS Thin Films and Multilayers
 - M2.5 MgB₂ Thin Films and Multilayers
 - M2.6 Large Area Films
 - M2.7 Films and Coatings for SRF Cavities
 - M2.8 Pnictide Films
 - M2.9 Thin Film Structural Characterization

- M3 Other Materials Applications**
 - M3.1 SRF Cavities: Forming and Welding
 - M3.2 SRF Cavities: Processing and Performance
 - M3.3 Melt Textured Conductors
 - M3.4 HTS Bulk for Bearings and Permanent Magnets
- M4 Synthesis, Doping, and Property Optimization**
 - M4.1 General Materials Science of Applied Superconductors
 - M4.2 HTS Bulk and Crystals
 - M4.3 MgB₂ Bulk and Crystals
 - M4.4 LTS Bulk and Crystals
 - M4.5 SRF: Niobium Materials Science
 - M4.6 Pnictides: Crystals and Other Basic Forms
 - M4.7 Pnictides: Synthesis of Applied Forms
 - M4.8 Pnictides: Properties of Interest to Applications
- M5 Property Characterizations**
 - M5.1 AC Losses: HTS
 - M5.2 AC Losses: LTS and MgB₂
 - M5.3 AC Losses: General, Modeling, and Other Materials
 - M5.4 Microwave Losses
 - M5.5 HTS: Stability, Calorimetry, and Other Thermal Properties
 - M5.6 LTS: Stability, Calorimetry, and Other Thermal Properties
 - M5.7 Transport Measurement Techniques
 - M5.8 Magnetic Measurement Techniques
 - M5.9 Critical Current, Flux Pinning and Flux Dynamics: HTS
 - M5.10 Critical Current, Flux Pinning and Flux Dynamics: LTS and MgB₂
 - M5.11 Flux Pinning and Flux Dynamics: General, Modeling, and Other Materials
 - M5.12 Mechanical Properties: HTS
 - M5.13 Mechanical Properties: LTS and MgB₂
 - M5.14 Mechanical Properties: General, Modeling, and Other Materials
 - M5.15 Microwave Properties and Characterization
 - M5.16 SRF: Temperature Mapping, Optical Inspection, and Other QA
 - M5.17 Other Measurement Techniques

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 Digital Circuits
 - E2.2 Mixed-signal Circuits (Analog + Digital, e.g., A/D Converters)
 - E2.3 Circuit Design Methods and Techniques
- E3 SQUIDS**
 - E3.1 LTS and HTS SQUIDS Fabrication and Characterization
 - E3.2 SQUID NDE
 - E3.3 ULF-NMR/MRI and Bio Applications
 - E3.4 Nano-SQUID and SQUID Microscopy
 - E3.5 Other SQUID Applications
- E4 Detectors and Readout Circuits**
 - E4.1 Electromagnetic Wave Transition-Edge Bolometers
 - E4.2 Electromagnetic Wave Mixers
 - E4.3 Photon Detectors
 - E4.4 Particle Detectors
- E5 Microwave Devices and Applications**
 - E5.1 Theory and Properties for Microwave Devices
 - E5.2 Passive Microwave Components and Systems
 - E5.3 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 RSFQ-based Control Circuits
- E8 System Integration and Applications**
 - E8.1 Electronics Thermal Management and Packaging
 - E8.2 System Applications: Cost/Benefit Analysis and Market Relevance

IMPORTANT DATES TO REMEMBER

February 26, 2010	Online Abstract Submission Deadline (<i>firm</i>)
March 19, 2010	Emailed Notification of Abstract Acceptance
April 1, 2010	Hotel Online Reservations and Conference Registration Open
July 25, 2010	Early Registration Fee/Hotel Reservation Deadline
July 16, 2010	Pre-Conference Registration Deadline
August 1- 6, 2010	Conference
August 3, 2010	Manuscript Submission Deadline



Applied Superconductivity Conference[®]

Omni Shoreham Hotel
Washington, D.C., USA
August 1 – 6, 2010



CALL FOR ABSTRACTS & PAPERS

Abstract Submission Deadline: Friday, February 26, 2010 (Midnight, EST, USA)

****This deadline is firm!****