



CRYOGENIC ENGINEERING CONFERENCE & INTERNATIONAL CRYOGENIC MATERIALS CONFERENCE

JW Marriott Starr Pass Resort & Spa

Tucson, Arizona, USA ♦ June 28 – July 2, 2015

<http://www.cec-icmc.org>

2015 CALL FOR ABSTRACTS & PAPERS

♦ **Abstract Submission Deadline: Wednesday, January 21, 2015 (11:59 PM, MST, UTC-7)** ♦

We invite you to participate in the 2015 Cryogenic Engineering Conference (CEC) and International Cryogenic Materials Conference (ICMC) to be jointly held from June 28 to July 2, 2015 at the JW Marriott Starr Pass Resort & Spa, Tucson, Arizona, USA. The conference program format will consist of plenary, focused, and special sessions with oral and poster presentations covering all aspects of cryogenic engineering and materials. In addition, an extensive exhibit will showcase the most up-to-date products and technologies in the cryogenic field.

Cradled in the Tucson Mountains lies a setting that ignites the imagination and luxurious accommodations that rejuvenate the soul. The JW Marriott Starr Pass Resort & Spa is situated just west of the area archeologists refer to as the birthplace of Tucson. From its mountainside perch high above Tucson and the breathtaking Sonoran Desert, Starr Pass weaves understated luxury into the rich tapestry of southern Arizona. A brilliant blend of authentic southwest tradition and 21st Century comforts, Starr Pass exists in perfect harmony with its colorful desert environment as though it had been here for eons. This is Tucson's premier convention destination.

ABSTRACT SUBMISSION

Authors are requested to submit abstracts and papers that address any aspect of cryogenic engineering and cryogenic materials research. The subject matter should be technically oriented and feature new, original developments in cryogenic engineering and materials.

Submission of abstracts for CEC-ICMC will be entirely electronic via a link from the conference website, <http://www.cec-icmc.org>. Complete information regarding abstract submission (including submission categories) can be found on the conference website. ***The deadline to submit abstracts is January 21, 2015 (11:59 PM, Mountain Standard Time, UTC-7).*** This deadline will be STRICTLY observed in fairness to all potential presenters. The submission site will not accept abstracts after this deadline. Abstracts that are not submitted to the submission site by the deadline will only be considered at the discretion of the Program Chairs.

Submitted abstracts will be reviewed for content, and the majority of the technical program will be formed from the abstracts accepted for presentation.

PRESENTATIONS AND PUBLICATIONS

Abstracts accepted for the Conference will be presented in either oral or poster sessions. All presentations must be in English. Any presenting author must be a registered participant.

Manuscripts will be peer reviewed for possible publication in the conference transactions. The mode of presentation (oral or poster) will have no effect on the review of the submitted paper. Acceptance of an abstract for presentation does not guarantee publication in the conference transactions. Instructions for manuscript preparation will also be made 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 or would like to receive additional information about the CEC-ICMC 2015 Exhibition, you may visit the conference website or contact Centennial Conferences at Phone: (001) 303-499-2299, Fax: (001) 303-499-2599 or Email: cecicmc@centennialconferences.com.

FINANCIAL SUPPORT

A limited amount of financial support in the form of a waived registration is available for students and attendees presenting papers. The guidelines for requesting assistance are available on the web page. ***The deadline to apply is March 9, 2015.***

AWARDS AND SCHOLARSHIPS

Participants are encouraged to submit nominations to the CEC and ICMC for the awards that will be presented during the conference. Further information on submitting nominations or applying is available at www.cec-icmc.org.

The Samuel Collins Award honors major contributions to cryogenic engineering. *The deadline for nominations is December 19, 2014.*

The ICMC Lifetime Achievement Award is given in recognition of lifetime achievements in advancing the knowledge of cryogenic materials. *The deadline for nominations is April 13, 2015.*

The Russell B. Scott Best Paper Award will be selected from the CEC papers presented at the 2013 Conference. Please see the conference web page for more information on this award.

The ICMC Cryogenic Materials Award for Excellence is awarded annually at the ICMC Conference, subject to the nomination of an appropriate candidate, to an individual, usually under the age of 40, to "recognize excellence in advancing the knowledge of cryogenic materials over recent years". *The deadline for applications is April 13, 2015.*

The CEC Klaus Timmerhaus Scholarship and the new, one time, **CEC Donna Jung Scholarship** will be awarded at the 2015 conference. These awards are both graduate scholarships intended to "develop and foster increased interest and participation in fields of cryogenic studies and to encourage future engineers and scientists in these areas". The Donna Jung Scholarship will be awarded specifically to a female graduate student. *The deadline for applications to either scholarship is April 13, 2015.*

CEC and ICMC Student Meritorious Paper Award is awarded to students for outstanding work. Winners will receive a printed certificate and a monetary award. *The deadline for applications is April 13, 2015.*

ICMC Best Paper Awards will be selected from the papers presented at the 2013 Conference. Please see the conference web page for more information on this award.

CEC and ICMC Student Travel Awards are available for a limited number of students presenting papers at the conference. *The deadline for travel assistance applications is April 13, 2015.*

NOMINATIONS FOR THE CEC BOARD

Individuals wishing to nominate a person or themselves for the CEC Board elections are requested to contact:

Professor Franklin Miller
University of Wisconsin - Madison
1500 Engineering Drive
Madison, WI 53706, USA
Phone: (001) 608-263-2479 • Email: fkMiller@wisc.edu

The deadline for nominations is January 12, 2015.

VISA REQUIREMENTS

Citizens of countries outside the U.S. must carry a valid passport and may be required to obtain a visa to enter the U.S. As the visa process may take up to 6 months, 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. CEC-ICMC 2015 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 (email: cecicmc@centennialconferences.com; Fax: (001) 303-499-2599) and provide your full name, complete mailing address, a valid email address (if request was sent by fax), and your phone and fax numbers. Your letter will be EMAILED TO YOU. A hard copy will be faxed and mailed to you via regular airmail only if requested. Any fees for sending letters via express mail must be paid for by the requester.

CONFERENCE INFORMATION

All conference related information will be made available on the conference website at <http://www.cec-icmc.org>. For any additional conference inquiries, please contact the Conference Management at:

Centennial Conferences
908 Main Street, Suite 280, Louisville, CO 80027, USA
Phone: (001) 303-499-2299 • Fax: (001) 303-499-2599 • Email: cecicmc@centennialconferences.com

CEC-ICMC ABSTRACT SUBMISSION CATEGORIES

CEC SUBMISSION CATEGORIES

CEC-01	Large-Scale Refrigeration and Liquefaction
CEC-02	Large-Scale Systems, Facilities, and Testing
CEC-03	Cryocoolers (Non-Aerospace)
CEC-04	Cryocoolers (Aerospace)
CEC-05	Expanders, Pumps, Compressors, and Regenerators
CEC-06	Superconducting Magnet Systems
CEC-07	Superconducting RF Systems
CEC-08	Cryogenic Power Cables and Leads
CEC-09	Cryogenics for Power Applications, Energy, Fuels and Transportation
CEC-10	Aerospace and Space Launch
CEC-11	Safety, Reliability, and Standards
CEC-12	Fluid Mechanics, Heat Transfer, and Cryogen Properties
CEC-13	Helium II Properties and Systems
CEC-14	Thermal Insulation Systems
CEC-15	Instrumentation and Controls
CEC-16	Cryogenics for Medical, Food, Environmental, and Manufacturing
CEC-17	Novel Concepts and New Devices

ICMC SUBMISSION CATEGORIES

ICMC-01	NbTi/Nb ₃ Sn/A15 Processing and Properties
ICMC-02	RE123 Conductors Processing and Properties
ICMC-03	BSCCO Processing and Properties
ICMC-04	MgB ₂ Processing and Properties
ICMC-05	Thin Films
ICMC-06	HTS and MgB ₂ Bulk
ICMC-07	Pnictides and New Superconducting Materials
ICMC-08	Superconductor Stability and AC Losses
ICMC-09	HTS Cables
ICMC-10	Flux Pinning and Critical Current
ICMC-11	Metallic and Composite Materials
ICMC-12	Insulation and Impregnation Materials
ICMC-13	Radiation and Other Degradation Effects
ICMC-14	Cryogenic Materials Testing and Methods
ICMC-15	Cryogenic Low and High Power Electronics

PROGRAM SUGGESTIONS

Suggestions concerning the technical program, particularly topical workshops and special sessions, should be directed to the appropriate Conference or Program Chair.

CEC:

Conference Chair

Peter Kittel
Retired, NASA Ames Research Center
Email: pkittel@cal.berkeley.edu

Program Chair

Jonathan Demko
LeTourneau University
Email: jonathandemko@letu.edu

Program Co-Chair

Jennifer Marquardt
Ball Aerospace
Email: jmarqua@ball.com

ICMC:

Conference Chair

Michael Sumption
Ohio State University
Email: sumption.3@osu.edu

Program Chair

Timothy Haugan
USAF AFMC AFRL/RQQM
Email: Timothy.Haugan@us.af.mil

DATES TO REMEMBER

End of November, 2014	Abstract Submission Opens
December 19, 2014	CEC Samuel C. Collins Award Nomination Deadline
January 12, 2015	CEC Board Nominations Deadline
January 21, 2015	Abstract Submission Deadline
March 2, 2015	Emailed Notification of Abstract Acceptance
March 2, 2015	Conference Registration Opens
March 2, 2015	Hotel Reservation Opens
March 9, 2015	Financial Support Application Deadline
April 13, 2015	Student Travel Award Application Deadline
April 13, 2015	Student Meritorious Paper Award Application Deadline
April 13, 2015	ICMC Lifetime Achievement Award Nomination Deadline
April 13, 2015	ICMC Cryogenic Materials Award for Excellence
April 13, 2015	CEC Klaus Timmerhaus Scholarship Award Application Deadline
April 15, 2015	Early Conference Registration Fee Deadline
May 20, 2015	Hotel Reservation Deadline
June 17, 2015	Pre-Conference Registration Deadline
Mid June, 2015	Manuscript Submission Site Opens
June 28 – July 2, 2015	CONFERENCE
June 29, 2015	Manuscript Submission Deadline