



CRYOGENIC ENGINEERING CONFERENCE & INTERNATIONAL CRYOGENIC MATERIALS CONFERENCE

Monona Terrace Community and Convention Center
Madison, Wisconsin, USA ♦ July 9 – 13, 2017

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

2017 CALL FOR ABSTRACTS & PAPERS

♦ **Abstract Submission Deadline Extended to: Wednesday, February 15, 2017 (11:59 PM, CDT, UTC-5)** ♦

We invite you to participate in the 2017 Cryogenic Engineering Conference (CEC) and International Cryogenic Materials Conference (ICMC) to be jointly held from July 9 to 13, 2017 at the Monona Terrace Community and Convention Center, Madison, Wisconsin, 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.

The conferences are returning to the Monona Terrace in Madison Wisconsin. Nestled between lakes Monona and Mendota, Madison is renowned for its beautiful four-season scenery, five area lakes, over 260 parks and over 200 miles of shared-use trails and paths. Greater Madison is an energetic metropolis with approximately 500,000 residents and plenty of public transit, including green options like hybrid buses and cabs. Madison plays host to stimulating cultural offerings, distinctive restaurants excellent music venues, and unique shopping. A true college town, the intellectual offerings of the University of Wisconsin-Madison and surrounding schools attract scholars from around the world.

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 February 15, 2017 (11:59 PM, CDT, UTC-5).*** 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 2017 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 Conference website. ***The deadline to apply is April 5, 2017.***

AWARDS AND SCHOLARSHIPS

Participants are encouraged to submit nominations to the CEC and ICMC for the awards, most of which will be presented during the conference. Further information on submitting nominations or applying is available at <http://www.cec-icmc.org/conference-program/awards>.

The Samuel Collins Award honors major contributions to cryogenic engineering. *The deadline for nominations is January 4, 2017.*

The Russell B. Scott Best Paper Award will be selected from the CEC papers presented at the 2015 Conference. Please see the conference web page for more information on this award.

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 26, 2017.*

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 nominations is April 26, 2017.*

The CEC Klaus Timmerhaus Scholarship and the **CEC Donna Jung Scholarship** will be awarded at the 2017 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 May 10, 2017.*

CEC Student Meritorious Paper Award is presented to students for outstanding work. *The deadline for applications is April 26, 2017.*

ICMC Student Meritorious Paper Award is presented to students for outstanding work. *The deadline for applications is July 10, 2017.*

ICMC Best Paper Awards will be selected from the papers presented at the 2015 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 7, 2017.*

NOMINATIONS FOR THE CEC BOARD

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

Jonathan A. Demko
School of Engineering and Engineering Technology
LeTourneau University
2100 South Mobberly Avenue
Longview, TX 75607
Phone: +1 903-233-3912
Email: JonathanDemko@letu.edu

The deadline for nominations is January 25, 2017.

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 2017 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 350, 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 Industrial Applications: Fuel,
Transportation, Medical and Food
CEC-10 – Aerospace
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, Visualization and Controls
CEC-16 – Novel Concepts and New Devices

ICMC SUBMISSION CATEGORIES

ICMC-01 – NbTi/Nb₃Sn/A15 Processing and Properties
ICMC-02 – Coated Conductors Processing and Properties
ICMC-03 – BSCCO Wires and Tapes, Processing and Properties
ICMC-04 – MgB₂ Wires and Tapes, Processing and Properties
ICMC-05 – Thin Films, Multilayers, and Artificial Structures
ICMC-06 – HTS and MgB₂ Bulk
ICMC-07 – Pnictides and New Superconducting Materials
ICMC-08 – Superconductor Measurements, Mechanical,
Electrical, Stability, AC Loss
ICMC-09 – HTS and LTS Cables
ICMC-10 – Flux Pinning and Critical Current
ICMC-11 – Metallic and Composite Materials
ICMC-12 – Insulation, Impregnation, and Dielectric Materials
ICMC-13 – Thermal Properties, Radiation, Degradation Effects
ICMC-14 – Cryogenic Materials Testing and Methods
ICMC-15 – Cryogenic Electronics and Electronic Materials
ICMC-16 – Superconducting Detectors (TES, Nanowire, Other)
ICMC-17 – Focused Symposia: Materials, Technologies, and
Machines for Electric Propulsion Transportation

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

John Pfothenhauer
University of Wisconsin, Madison
Email: Pfot@engr.wisc.edu

Program Chair

Jennifer Marquardt
Ball Aerospace
Email: jmarqua@ball.com

Program Co-Chair

Luisa Chiesa
Tufts University
Email: Luisa.Chiesa@tufts.edu

ICMC:

Conference Chair

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

Program Chair

Charles Rong
U.S. Army Research Laboratory
Email: charles.c.rong.civ@mail.mil

DATES TO REMEMBER

December 1, 2016	Abstract Submission Opens
January 4, 2017	CEC Samuel C. Collins Award Nomination Deadline
January 25, 2017	CEC Board Nomination Deadline
February 2, 2017	Abstract Submission Deadline
March 30, 2017	Emailed Notification of Abstract Acceptance
March 30, 2017	Conference Registration Opens
March 30, 2017	Hotel Reservation Opens
April 5, 2017	Financial Support Application Deadline
April 10, 2017	Exhibit Contracts Due
April 17, 2017	Announcement of Exhibit Booth Assignments
April 26, 2017	Student Travel Award Application Deadline
April 26, 2017	CEC Student Meritorious Paper Award Application Deadline
April 26, 2017	ICMC Lifetime Achievement Award Nomination Deadline
April 26, 2017	ICMC Cryogenic Materials Award for Excellence
April 26, 2017	CEC Klaus Timmerhaus & Donna Jung Scholarship Awards Application Deadline
May 17, 2017	Early Conference Registration Fee Deadline
May 30, 2017	Hotel Reservation Deadline
June 26, 2017	Manuscript Submission Site Opens
June 28, 2017	Pre-Conference Registration Deadline
July 9 – 13, 2017	CONFERENCE
July 10, 2017	Manuscript Submission Deadline
July 10, 2017	ICMC Student Meritorious Paper Award Application Deadline