2019 CALL FOR ABSTRACTS & PAPERS

We invite you to participate in the 2019 Cryogenic Engineering Conference (CEC) and International Cryogenic Materials Conference (ICMC) to be jointly held from July 21 to 25, 2019 in Hartford, Connecticut: Connecticut’s capital and one of New England’s oldest cities.

The Conference will be held at the Connecticut Convention Center located in the heart of downtown Hartford’s Front Street District overlooking the Connecticut River. Explore Hartford history at nearby attractions including the nation’s oldest public art museum, the Wadsworth Atheneum; the oldest public park, Bushnell Park with Carousel; and the Mark Twain House, where the books Huckleberry Finn and Tom Sawyer were written by America’s beloved author, Mark Twain. The new Connecticut Science Center is part of a revitalized downtown and is a premier destination for informal science learning. The Dash, a free shuttle service that you can take from the convention center, provides transportation around all the downtown attractions and restaurants.

The technical program of the conferences features the latest research and state-of-the-art developments in all cryogenics areas, including superconductivity, cryocoolers, cryogenic materials, and applications. Hartford provides an inspiring environment for lively discussions, shared experiences, and collaboration development. In addition, an extensive exhibit will showcase the most up-to-date products and technologies in the cryogenic field.

**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. Complete information regarding abstract submission can be found at [https://www.cec-icmc.org](https://www.cec-icmc.org). **The deadline to submit abstracts is February 27, 2019 (11:59 PM, EST, UTC-5).** 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. **All authors of accepted Oral and Poster abstracts are encouraged to submit their presentations via the Indico site by the first day of the Conference, July 21, 2019.** All Plenary, Oral and Poster presentations will be available to all conference attendees.

**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 based on the conference presentations will be peer reviewed for possible publication in the conference proceedings. The mode of presentation (oral or poster) will have no effect on the review of the submitted paper, however, the presentation must be given during the scheduled day/time or the paper submitted will not be considered for peer review. Acceptance of an abstract for presentation does not guarantee publication in the conference proceedings. Instructions for manuscript preparation will be made available on the Conference website.

**EXHIBITS**

A technical exhibition of materials, services, instruments and literature will take place during the Conference from July 21 through July 24. If you or your company are interested or would like to receive additional information about the 2019 CRYO EXPO, 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 at [https://www.cec-icmc.org/conference-program/financial-assistance](https://www.cec-icmc.org/conference-program/financial-assistance). **The deadline to apply is April 24, 2019.**
ICMC & CEC Student Fee Waiver Program
In addition to the existing regular financial assistance program of CEC-ICMC, CEC-ICMC have jointly established an enhancing program that allows for a full early registration fee waiver for students who attend the 2019 Conference. Application requirements include: i) submission of a regular abstract by the due date (extended to February 27), ii) submission of a one-page extended abstract by the March 4 deadline, iii) registration by the early registration deadline (June 5), iv) present at an ICMC or CEC session at the conference, and v) agree to submit a paper based on the presentation for publication in the ICMC or CEC proceedings. Detailed application information is available at [https://www.cec-icmc.org/conference-program/student-waiver-program](https://www.cec-icmc.org/conference-program/student-waiver-program).

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 [https://www.cec-icmc.org/conference-program/awards](https://www.cec-icmc.org/conference-program/awards).

CEC AWARDS
- **The Samuel Collins Award** honors major contributions to cryogenic engineering. *The deadline for nominations is January 16, 2019.*
- **The Russell B. Scott Best Paper Awards** will be given to authors of selected CEC papers presented at the 2017 Conference. Please see the conference web page for more information on this award.
- **The CEC Klaus & Jean Timmerhaus Scholarship Award** will be awarded at the 2019 Conference. The scholarship is 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 deadline for applications to either scholarship is May 15, 2019.*
- **CEC Student Meritorious Paper Award** is presented to students for outstanding work. *The deadline for applications is May 15, 2019.*

ICMC AWARDS
- **The ICMC Lifetime Achievement Award** is given in recognition of lifetime achievements in advancing the knowledge of cryogenic materials. *The deadline for nominations is January 16, 2019.*
- **The ICMC Cryogenic Materials Award for Excellence** is awarded annually at the ICMC Conference, subject to the nomination of an appropriate candidate and individual under 40 years of age, to “recognize excellence in advancing the knowledge of cryogenic materials over recent years”. *The deadline for nominations is January 16, 2019.*
- **ICMC Student Meritorious Paper Award** will be given to an author of a selected ICMC paper presented at the 2017 Conference. Please see the Conference web page for more information on this award.
- **ICMC Best Paper Awards** will be given to authors of selected papers presented at the 2017 Conference. Please see the Conference web page for more information on this award.

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

Wolfgang Stautner  
GE Global Research  
One Research Circle, EP 113A | Niskayuna, NY 12309  
Phone: +1 518-387-7436 | Email: stautner@research.ge.com

*The deadline for nominations has been extended to February 15, 2019.*

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 2019 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 and provide your full name, complete mailing address, 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 [https://www.cec-icmc.org](https://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 – Components: Expanders, Pumps, Compressors, Heat Exchangers, and Heat Pipes
- CEC-06 – Components: Superconducting Magnet Systems
- CEC-07 – Components: Superconducting RF Systems, Power Cables, and Leads
- CEC-08 – Applications: Instrumentation, Visualization and Controls
- CEC-09 – Applications: Fuel, Transportation, Medical, and Food
- CEC-10 – Applications: Aerospace
- CEC-11 – Applications: Safety, Reliability, and Standards
- CEC-12 – Applications: Medicine and Biology
- CEC-13 – Thermal-Fluid Transport and Properties: Fluids Boiling Above 50 K
- CEC-14 – Thermal-Fluid Transport and Properties: Fluids Boiling Below 50 K
- CEC-16 – Miscellaneous

**ICMC Submission Categories**
- ICMC-01 – NbTi/Nb,Sn/A15
- ICMC-02 – MgB2 Wires and Tapes
- ICMC-03 – BSCCO Wires and Tapes
- ICMC-04 – REBCO Coated Conductors
- ICMC-05 – Fe-based and New Superconducting Materials
- ICMC-06 – Flux Pinning and Critical Current
- ICMC-07 – HTS and MgB2 Bulks
- ICMC-08 – LTS and HTS Cables
- ICMC-09 – Superconductor Measurements: Mechanical, Electrical, AC Loss and Stability
- ICMC-10 – Thin Films, Multilayers, and Artificial Structures
- ICMC-11 – Metallic, Ceramic, Composite and Polymeric Materials
- ICMC-12 – Insulation/Conduction, Resins and Impregnation, Dielectric Properties
- ICMC-13 – Thermal, Electrical, and Magnetic Properties, Radiation, Degradation
- ICMC-14 – Cryogenic Materials Testing and Methods
- ICMC-15 – Applications: Microelectronics, Photonics, Sensors, Detectors, Computation
- ICMC-16 – Applications: Power Electronics, Electric Propulsion, Transportation
- ICMC-17 – Special Sessions
- ICMC-18 – Special Session on NbTi/Nb,Sn/A15 in Memory of Professor Kyoji Tachikawa

**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: Jennifer Marquardt
  - Ball Aerospace
  - Email: jsmarqua@ball.com

**Program Chair:** Luisa Chiesa
- Tufts University
- Email: Luisa.Chiesa@tufts.edu

**Program Co-Chair:** Jacob Leachman
- Washington State University
- Email: Jacob.Leachman@wsu.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**

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