

# CEC-ICMC 2019 - Abstracts, Timetable and Presentations



**Sunday, July 21, 2019 - Thursday, July 25, 2019**

**Connecticut Convention Center, Level 6**

## **Submission Categories (tracks)**

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.

The abstract submission categories/tracks are as follows:

## **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-15 - Thermal-Fluid Transport and Properties: Thermal Insulation Systems**

**CEC-16 - Miscellaneous**

**ICMC-01 - NbTi/Nb<sub>3</sub>Sn/A15**

**ICMC-02 - MgB<sub>2</sub> Wires and Tapes**

**ICMC-03 - BSCCO Wires and Tapes**

**ICMC-04 - REBCO Coated Conductors**

**ICMC-05 - Fe-based and New Superconducting Materials**

**ICMC-06 - Thin Films, Multilayers, and Artificial Structures**

**ICMC-07 - Flux Pinning and Critical Current**

**ICMC-08 - HTS and MgB<sub>2</sub> Bulks**

**ICMC-09 - LTS and HTS Cables**

**ICMC-10 - Superconductor Measurements: Mechanical, Electrical, AC Losses and Stability**

**ICMC-11 - Metallic, Ceramic, Composite and Polymeric Materials**

**ICMC-12 - Insulation/Conduction, Resins and Impregnation, and 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<sub>3</sub>Sn/A15 in Memory of Professor Kyoji Tachikawa**