

# CEC/ICMC 2025 Abstracts & Technical Program



**Sunday 18 May 2025 - Thursday 22 May 2025**

**Peppermill Reno**

## **Submission Categories (tracks)**

## **CEC**

**[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, etc.**

**[CEC-06] Applications: Superconducting Systems**

**[CEC-07] Applications: Instrumentation, Visualization, and Controls**

**[CEC-08] Applications: Cryo-fuels Transportation, Testing, and Management**

**[CEC-09] Applications: Hydrogen and LNG**

**[CEC-10] Applications: Aerospace**

**[CEC-11] Applications: Quantum Systems and Materials**

**[CEC-12] Applications: Medicine and Biology**

**[CEC-13] Fundamentals: Thermal Properties and Theory/Numerical Studies**

**[CEC-14] New Devices, Novel Concepts, and Miscellaneous**

**[CEC-15] Safety Reliability and Standards**

**[CEC-16] Special Sessions (select only if requested by a committee member to submit)**

## **ICMC**

**[ICMC-01] LTS and MgB<sub>2</sub>: Bulk and Wires**

**[ICMC-02] BSCCO and Iron-Based Materials: Bulk and Wires**

**[ICMC-03] ReBCO Coated Conductors**

**[ICMC-04] LTS, HTS, and Cryo-Conducting Cables**

**[ICMC-05] Thin Films and Multilayers for Microelectronics and RF Applications**

**[ICMC-06] Flux-pinning and Critical Current**

**[ICMC-07] Magnetization and AC Losses**

**[ICMC-08] Insulation & Impregnation Materials, Polymeric Materials**

**[ICMC-09] Mechanical Properties of Structural Materials for Cryogenic Applications - Processing and Structure Relationships**

**[ICMC-10] Physical and Transport Properties at Cryogenic Temperatures**

**[ICMC-11] Materials for Cryogenic Transport, Space, and Propulsion Applications**

**[ICMC-12] Hydrogen Technology and Compatible Materials**

**[ICMC-13] Magnet, Power, and Mobility Applications**

**[ICMC-14] Cryogenic Power Electronics: Materials, Devices and Properties**

**[ICMC-15] Cryogenic Electronics, Photonics, Sensors and Detectors, Topological Materials**

**[ICMC-16] Cryogenic Testing Standards, Procedures, and Measurements**

**[ICMC-17] Special Session (select only if requested by a committee member to submit)**