MT26 Abstracts, Timetable and Presentations



Sunday 22 September 2019 - Friday 27 September 2019 Hyatt Regency Hotel Vancouver

Submission Categories (tracks)

Scope of the Conference

The MT26 Conference is the most important international forum addressing all aspects of magnet research, development, construction, testing, and operation.

The objective of the conference is to provide a forum for the exchange of coil and magnet related technology as well as design and analysis techniques, to diffuse in the scientific community new applications for coils and magnets, to provide an exchange between research activities and industrial applications, and to encourage professional scientists and engineers to follow careers in magnet technology and its applications.

The subject of the conference is the technology associated with the construction of coils and magnets. Coils can be part of devices for power, energy, transport and other applications. Magnets for generating magnetic field can either be of electro-magnetic nature comprising turns of a current carrying conductor or be of a permanent magnetic material.

The scope includes structural and insulating materials, superconducting materials, normal conducting materials, cooling technology including cryogenics, power technology, design and analysis, instrumentation and measurement techniques, testing and operational experience.

Publications related to the magnet-supporting technologies must contain sufficient description of the magnet device itself, or address specific issues of the interfacing the magnet unit or component with the rest of system, or description of the uniqueness about a magnet or its component for the particular system application.

Generic study of a non-magnet technology, system or device that fail to incorporate at least one of the criteria above might or might not be accepted for presentation at the Magnet Technology Conference.

A01 - Superconducting Accelerator Magnets

A02 - Resistive Accelerator Magnets

A03 - Wigglers and Undulators

A04 - Fast cycling Accelerator Magnets

A05 - Particle Detector Magnets

- **B01 Superconducting Magnets for Fusion**
- **B02 Resistive Magnets for Fusion**

C01 - Superconducting and Hybrid High-Field Magnets

- **C02** Resistive and Pulsed High-Field Magnets
- **C03 HTS Insert and Model Magnets**
- **D01 Magnets for NMR**
- **D02 Magnets for MRI**
- D03 Magnets for other Medical and Biological Applications
- E01 Motors
- **E02 Generators**

E03 - Wind, Wave, and Tidal Generators

- **E04 Levitation and Magnetic Bearings**
- E05 Energy Storage / SMES
- **E06 Transformers and Fault Current Limiters**
- **E07 Magnetic Separation**
- **E08 Space Applications**
- **E09 Novel and Other Applications**
- F01 Low Tc Wires and Cables
- F02 MgB2 and Iron-based Wires and Cables
- **F03 ReBCO Wires and Cables**
- **F04** Other High Tc Wires and Cables

F05 - Cable-in-Conduit and other Internally Cooled Conductors

- **F06** Joints between Superconductors
- **F07** Current Leads, Links, and Bus bars
- **F08 Structural Materials for Magnets**
- **F09 Electrical Insulation for Magnets**
- F10 Other Magnet Components
- **G01** Quench Detection and Protection Systems
- **G02** Quench and Normal-Zone Behavior
- **G03 Stability of Conductors and Coils**
- **G04 Losses in Conductors and Coils**
- **G05** Magnetization and Field Quality
- **G06 Mechanical Behavior and Stress**
- **G07 Multiphysics Design and Analysis**

G08 - Novel Diagnostics and other Techniques

- **G09 Small Test and Model Coils**
- **G10 Conductor and Coil Test Facilities**
- H01 Cryostats and Cryogenics
- H02 Power Supplies and Flux Pumps
- H03 Other Associated Technologies