CALL FOR PAPERS

The organizing committee of the 23rd International Conference on Solid State Ionics (SSI-23) invites you to join us July 17 - 22, 2022 in Boston-a thriving center of scientific research, and one of the oldest municipalities with a special place in the history of the United States.

The International Conference on Solid State Ionics is a major event in the field, attracting a worldwide audience every two years. It provides an unparalleled opportunity to gather leading international scientists and engineers, top-level industrial, management and business executives, as well as students and young scientists, to discuss all aspects of the science, technology and applications of ion-conducting materials. The Conference facilitates the exchange of ideas between people with different backgrounds and fosters the development and professional growth of both young and experienced researchers alike.

IMPORTANT DATES

Abstract Submission Opens September 15, 2021 **Abstract Submission Deadline** December 15, 2021

Preregistration Opens Late April 2022

CHIEF ORGANIZER

Bilge Yildiz, Massachusetts Institute of Technology

CO-ORGANIZERS

Yet-Ming Chiang, Massachusetts Institute of Technology Jennifer L.M. Rupp, Massachusetts Institute of Technology Harry L. Tuller, Massachusetts Institute of Technology

SCIENTIFIC PROGRAM

The six-day Conference will present a balance of fundamental, as well as application-inspired topics, under the solid-state ionics umbrella, including:

Defects and Transport Mechanisms in Solid **Electrolytes and Mixed Conductors**

- Oxide Ion Conductors
- Proton Conductors
- ▶ Small Cation (Li, Na, Mg etc.) Conductors
- ▶ Cross-Cutting Themes in Ionic Conduction— From Liquids to Polymers to Hard Inorganics
- ▶ Mixed Electronic-Ionic Conductors
- ▶ Stress, Light and Electric Field Modulated Processes
- Advanced Characterization Techniques
- ► Theory and Computation

Electrochemical Interfaces

- Electro-Catalytic Materials
- Gas/Solid
- Solid/Solid
- ► Liquid/Solid (photo-electrocatalysis)

Iono-Electronics

- ▶ Resistive Switching Memory and Neuromorphic Computation
- ▶ Ferroelectrics, Multiferroics, Magneto-Ionics
- Transparent Conducting Oxides
- ▶ Chemical and Solid State Sensors
- ▶ Bio-electronics

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▶ Solid Oxide Electrolyzers

▶ PEM Fuel-Electrolysis Cells







