



FIRST ANNOUNCEMENT AND CALL FOR PAPERS

www.chimica.unipd.it/ssi21/

Exhibition/Sponsorship

Exhibits of commercial products related to the conference topics will be held concurrently. We expect a good number of vendors and conference registrants. Companies and other organizations interested in promoting their products or activities at this top event for the international materials community are invited to take advantage of the several sponsorships opportunities available.

Awards

During SSI-21, the 4th ISSI Young Scientist Award (YSA) will be presented to recognize outstanding contributions made by a young scientist to Solid State Ionics in the past years. In order to encourage the submission of high-value papers, **additional prizes will be awarded to the best paper in the poster sessions**. Details will be available in the Conference Programme.

Important Dates

- 3 OCTOBER 2016**
Opening of abstract submission
and registration
- 9 JANUARY 2017**
Deadline for abstract submission
- 10 FEBRUARY 2017**
Notification of abstract acceptance
- 31 MARCH 2017**
Deadline of early registration

A selection of the best contributions presented at **SSI-21** will be published in a **Special Issue of Solid State Ionics** following the usual "peer-review" process.

Organizers

Conference Chairman: Prof. Vito Di Noto
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Conference Co-Chair: Prof. Harry L. Tuller
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Organizing Committee

Dr. Francesco Bonaccorso
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Prof. Silvia Licocchia
University of Rome "Tor Vergata", Italy

Prof. Joachim Maier
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Prof. Hiroyuki Ohno
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Prof. Stephen J. Paddison
University of Tennessee, Knoxville, USA

Prof. Stefano Passerini
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Prof. Peter N. Pintauro
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Prof. Luisa Torsi
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Massachusetts Institute of Technology, USA

Prof. John R. Varcoe
University of Surrey, UK

Prof. Thomas A. Zawodzinski
University of Tennessee, Knoxville, USA

About the Conference

The 21st International Conference on Solid State Ionics (SSI-21) is a world-class meeting devoted to all aspects of the **science, technology and applications of ion-conducting materials**. SSI-21 will gather leading international scientists and engineers, providing an unparalleled opportunity to exchange ideas between people with different backgrounds and foster the development and professional growth of both young and experienced researchers alike. The topics of SSI-21 will cover fundamental and applied aspects of ion-conducting materials, both conventional and innovative. Fundamental studies, both experimental and theoretical, will find their justification in cutting-edge applications such as devices for the conversion and the storage of energy (e.g., batteries, fuel cells, redox flow batteries, electrolyzers, supercapacitors); microelectronics; communication systems and robotics. SSI-21 will also cover the field of ionics in biologic systems and life sciences.

Conference Topics

SSI-21 will provide a comprehensive overview of all the areas of Solid State Ionics. The symposia, which will be grouped in different macro-areas, will cover both the fundamental and the applied aspects of these materials.

Macro-Area 1: Energy and the Environment (focused on solid-state ionic materials for energy conversion and storage systems such as fuel cells and electrolyzers, redox flow batteries, primary and secondary batteries, supercapacitors and ultracapacitors, and photovoltaic device and the development of sensors)

Macro-Area 2: Microelectronics, Communication systems, Robotics (aimed at the development of advanced materials and systems for application in the ICT field and robotics, such as switches, conductors, actuators and microelectronic components)

Macro-Area 3: Ionics in biologic systems and life sciences (exploring the impact of ionics in biologic systems, such as ion transport through membranes, the detection and transduction of stimuli, and the interfacing between biologic and artificial systems)

SSI-21 will also welcome and emphasize fundamental contributions on:

- "Cross-effect" phenomena
- Mesoscale phenomena
- High-field effects
- Computational modelling and simulations

Conference Location

SSI-21 will be held in Padua, Italy, the cradle of the international scientific culture: the ideal location for all the researchers of today and of tomorrow in Solid State Ionics to meet, get to know one another and share the new and most exciting developments in the field.



Padua is better known as the city of St. Anthony and it is one of the most important art cities in Italy. It is the capital of Padua province, in Veneto, and the economic and communications hub of the province. Padua's population is 211,400 (2015). Padua lies on the Bacchiglione River, 35 km west of Venice. Its agricultural setting is the Pianura Veneta, the "Venetian plain", to the city's south west are the Euganean Hills, praised by Lucan and Martial, Petrarck, Ugo Foscolo, and Shelley. The city is picturesque, with a dense network of arcaded streets opening into large communal piazze, and many bridges crossing the various branches of the Bacchiglione, which once surrounded the ancient walls like a moat.



CONGRESS WEBSITE

Contacts

Scientific Secretariat

Info on programme and scientific Issues

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Congress website

www.chimica.unipd.it/ssi21/

Organizing Secretariat

Registration, hotel accommodation, social programme



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