



# SSI - 17

The 17th International Conference on Solid State Ionics

28 June - 3 July, 2009

Toronto, CANADA

## First Announcement and Call For Papers

### Foreword

The SSI conferences held every two years under the auspices of the International Society for Solid State Ionics (ISSI), promote international collaboration and cooperation and provide a forum for scientists and engineers to discuss fundamentals, innovations and applications in the field of ion transport in solids. The conferences also afford an opportunity for exchanging new ideas and the latest research results. This follows successful conferences held in Baden-Baden in 2005 and Shanghai in 2007.

### Program

SSI-17 will begin on Sunday June 28, 2009, with Registration and an Opening Reception.

The Scientific program will begin after the Official Opening Ceremony on Monday morning. Each morning, there will be a Plenary Lecture, followed by four concurrent, parallel sessions, which will feature Keynote lectures as well as contributed talks. There will also be two poster sessions. The Closing Ceremony will be held after the scientific sessions on Friday morning. The official language of SSI-17 will be English.

**Regarding applications**, the program will be structured around the following topics:

- Polymer Fuel Cells
- High Temperature Fuel Cells
- Batteries (aqueous, lithium, HT)
- Sensors

**Regarding scientific content**, the program will be structured around the following topics:

- Fundamentals
- Modeling and Simulation
- Measurement Techniques
- Ionic Diffusion and Conduction
- Mixed Conductors
- Novel Materials
- Interfacial Effects

### Venue

SSI-17 will be held at the Fairmont Royal York Hotel in downtown Toronto, Canada. Toronto is the cultural, entertainment and financial capital of Canada (in the province of Ontario), with a population of 2.7 million, is the major port of entry into Canada on the east coast, with easy access from many cities in Europe, and one-stop connections from Asia and other Pacific Rim countries. From Pearson International Airport to downtown, one can take either a taxi, or a shuttle to the major hotels. There is also an express public transit bus, the Airport Rocket. Detailed information will, of course, be available on the website, <http://www.ssi-17.net>.

### Abstract Submission

Abstracts may be submitted through the SSI-17 website, after September 15, 2008. The deadline for submission of Abstracts is 30 January, 2009. Detailed instructions for formatting abstracts are available on the SSI-17 website. Authors of accepted abstracts will be notified by February 15, 2009.

### Proceedings

Accepted abstracts will be prepared in booklet form and given to the attendees. Presented papers will be refereed and selected for publication in Solid State Ionics, as a special issue.

<http://www.ssi-17.net> or e-mail [ssi17@alfred.edu](mailto:ssi17@alfred.edu)

## Hotel info

SSI-17 has reserved a number of rooms for participants at special conference rates, at the Royal York Hotel. Participants are responsible for making their own accommodation arrangements. Reservations can be made directly from our website, <http://www.ssi-17.net>

## Registration

On-line registration, through the SSI-17 website will be available after January 15, 2009.

## Dokiya and ISSI Presidential Scholarships

It is possible to offer a number of scholarships for young scientists to help defray the costs of attendance. We are grateful for the generosity of the Dokiya Endowment, of the Electrochemical Society, and the International Society for Solid State Ionics for this financial support.

## Social Program

The social program will include an Opening Reception on Sunday evening, two poster sessions, refreshment breaks and the Conference Banquet on Thursday evening.

There is also an optional sightseeing tour (separate registration fee) of Niagara Falls on Wednesday afternoon/evening. Please see the website for details.

### Conference Co-Chairs

**Alastair N. Cormack**

*New York State College of Ceramics at Alfred University*

**Klaus Funke**

*Institute of Physical Chemistry, University of Muenster*

### Local Organizing Committee

**Alastair N. Cormack**, *Alfred University*

**Doreen D. Edwards**, *Alfred University*

**Anthony J. Petric**, *McMaster University*

**Nigel Sammes**, *Colorado School of Mines*

**Matthew Fronk**, *General Motors*

**Marlene Wightman**, *Alfred University*

## International Scientific Advisory Committee

**Michel Armand**

*Université de Picardie, Amiens, FRANCE*

**Sukhvinder Badwal**

*CSIRO, Clayton, AUSTRALIA*

**Gyeong Man Choi**

*POSTECH, Republic of Korea*

**B. V. R. Chowdari**

*National Univ. Of Singapore, SINGAPORE*

**Wolfgang Dieterich**

*University of Konstanz, GERMANY*

**Ludwig J. Gauckler**

*ETH Zürich, SWITZERLAND*

**Malcolm Ingram**

*University of Aberdeen, UNITED KINGDOM*

**Tatsumi Ishihara**

*Kyushu University, JAPAN*

**Allan Jacobson**

*University of Houston, UNITED STATES*

**Junichi Kawamura**

*Tohoku University, JAPAN*

**John A. Kilner**

*Imperial College London, UNITED KINGDOM*

**Philipp Maass**

*Technische Universität Ilmenau, GERMANY*

**Joachim Maier**

*Max Planck Inst. for Solid State Research, GERMANY*

**Manfred Martin**

*RWTH Aachen University, GERMANY*

**Junichiro Mizusaki**

*Tohoku University, JAPAN*

**Mogens Mogensen**

*Risø National Laboratories, DENMARK*

**Janina Molenda**

*Krakow University, POLAND*

**Truls Norby**

*University of Oslo, NORWAY*

**Zempachi Ogumi**

*Kyoto University, JAPAN*

**Finn Willy Poulsen**

*Risø National Laboratories, DENMARK*

**Ilan Riess**

*Technion, Haifa, ISRAEL*

**Joop Schoonman**

*Delft University of Tech, THE NETHERLANDS*

**Werner Sitte**

*Leoben University, AUSTRIA*

**Detlev Stöver**

*Forschungszentrum Jülich, GERMANY*

**Ellen Ivers Tiffée**

*Universität Karlsruhe (TH), GERMANY*

**Harry L. Tuller**

*Massachusetts Inst. of Tech, UNITED STATES*

**Constantinos G. Vayenas**

*University of Patras, GREECE*

**Ting Lian Wen**

*Shanghai Institute of Ceramics, CHINA*

**Werner Weppner**

*Christian Albrecht University of Kiel, GERMANY*

**Osamu Yamamoto**

*Genesis Research Institute, JAPAN*

For more information please contact Ms. Marlene Wightman  
New York State College of Ceramics at Alfred University, 2 Pine St, Alfred, NY 14802, USA  
e-mail: [ssi17@alfred.edu](mailto:ssi17@alfred.edu) Phone: +1-607-871-2425; fax: +1-607-871-2392  
[www.ssi-17.net](http://www.ssi-17.net)