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CALL FOR PAPERS




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228th ECS Meeting
PHOENIX, AZ
October 11-16, 2015
Hyatt Regency Phoenix &
Phoenix Convention Center



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For all details about the 228th Meeting in Phoenix, please visit www.electrochem.org.
For the full Phoenix Call for Papers, see www.electrochem.org/meetings/biannual/228/.

General Information

The 228th ECS Meeting will be held October 11-16, 2015. This major international conference offers a unique blend of electrochemical and solid state science and technology; and serves as a major forum for the discussion of interdisciplinary research from around the world through a variety of formats, such as oral presentations, poster sessions, exhibits, and tutorial sessions.

Abstract Submission and Deadlines

Submit one original meeting abstract electronically via the ECS website, no later than **May 1, 2015**. Please carefully check the symposium listings for any alternate abstract submission deadlines. For complete details on abstract submission and symposium topics, please see www.electrochem.org/meetings/biannual/228/.

Faxed abstracts, e-mailed abstracts, and late abstracts will not be accepted. In June 2015, all presenting authors will receive an e-mail notifying them of the date, time, and location of their presentation. Other hardcopy letters will be sent only upon request to abstracts@electrochem.org.

Meeting abstracts should explicitly state objectives, new results, and conclusions or significance of the work. Regardless of whether you submit as a poster or an oral presentation, it is at the symposium organizers' discretion whether it is scheduled for an oral or poster presentation. Programming for this meeting will occur in June 2015.

Paper Presentation

All authors selected for either oral or poster presentations will be notified in June 2015. Oral presentations must be in English. Both LCD projectors and laptops will be provided for oral presentations. **Presenting authors MUST bring their presentation on a USB flash drive to be used with the laptop that will be provided in each technical session room.** If a presenting author would like to use his/her own laptop for presentation, we strongly suggest that the author verify laptop/projector compatibility in the presentation room prior to the start of the session or all other presentations. Speakers requiring additional equipment must make written request to the ECS headquarters office at least one month prior to the meeting and appropriate arrangements will be worked out, subject to availability, and at the expense of the author. Poster presentations should be displayed in English, on a board approximately 3 feet 10 inches high by 3 feet 10 inches wide (1.17 meters high by 1.17 meters wide), corresponding to the abstract number and day of presentation in the final program.

Manuscript Publication

ECS Meeting Abstracts—All meeting abstracts will be published on the ECS website, copyrighted by ECS, and all abstracts become the property of ECS upon presentation.

ECS Transactions—All full papers and posters presented at ECS meetings are eligible for submission to the online proceedings publication, *ECS Transactions* (ECST). The degree of review to be given each paper is at the discretion of the symposium organizers.

Some symposia will publish an "enhanced" issue of ECST, which will be available for sale at the meeting and through the ECS Digital Library. Please see each individual symposium listing in the full Call for Papers to determine if there will be an "enhanced" ECST issue. In the case of symposia publishing "enhanced" issues, submission of a full-text manuscript to ECST is mandatory and required in advance of the meeting.

Some symposia will publish a "standard" issue of ECST for which all authors are encouraged to submit their full-text papers. Please see each individual symposium listing in the full Call for Papers to determine if there will be a "standard" ECST issue. Upon completion of the review process, papers from the "standard" issues will be published shortly after their acceptance. Once published, papers will be available for sale through the ECS Digital Library.

Please visit the ECST website (ecsdl.org/ECST/) for additional information, including overall guidelines, deadlines for submissions and reviews, author and editor instructions, a manuscript template, and more.

Authors presenting papers at ECS meetings, and submitting to ECST, are also encouraged to submit to the Society's technical journals: the *Journal of The Electrochemical Society*, *ECS Journal of Solid State Science and Technology*, *ECS Electrochemistry Letters*, or *ECS Solid State Letters*. Although there is no hard deadline for the submission of these papers, it is considered that six months from the date of the symposium is sufficient time to revise a paper to meet the stricter criteria of the journals. "Instructions to Authors" are available from the ECS website.

Authors now have the choice of publishing their research as **Open Access** in the ECS journals. Attendees of the 228th ECS Meeting will receive one Article Credit (for use for up to 12 months after the meeting) to be used in place of payment of the Article Processing Charge, normally USD \$800. For more information about Open Access at ECS, please see <http://www.electrochem.org/oa>.

If publication is desired elsewhere after presentation, written permission from ECS is required.

Financial Assistance

Financial assistance is very limited and generally governed by the symposium organizers. Individuals may inquire directly to the organizers of the symposium in which they are presenting their paper to see if funding is available. For details, please see http://www.electrochem.org/sponsorship/travel_grants.htm.

Letter of Invitation

Individuals requiring an official letter of invitation should write to the ECS headquarters office; such letters will not imply any financial responsibility of ECS.

Hotel Reservations — Deadline September 11, 2015

The 228th ECS Meeting will be held at the Phoenix Convention Center and the Hyatt Regency Phoenix. Please refer to the meeting website for the most up-to-date information on hotel availability and information about the blocks of rooms where special rates have been reserved for participants attending the meeting. **The hotel reservation deadline is September 11, 2015.**

Meeting Registration

All participants—including authors and invited speakers—are required to pay the appropriate registration fees. Hotel and meeting registration information will be posted on the ECS website as it becomes available. **The deadline for discounted early-bird registration is September 11, 2015.**

Short Courses

A number of short courses will be offered on Sunday, October 11, 2015 from 9:00 AM-4:30 PM. Short Courses require advance registration and may be cancelled if enrollments are too low. As of press time, the following Short Courses are planned for the meeting: Basic Impedance Spectroscopy, Fundamentals of Electrochemistry, Basic Corrosion, Grid Scale Energy Storage, and PE Fuel Cells. Please check the ECS website for the final list of offerings.

Technical Exhibit

The 228th ECS Meeting in Phoenix will include a Technical Exhibit, featuring presentations and displays by over 40 manufacturers of instruments, materials, systems, publications, and software of interest to meeting attendees. Coffee breaks are scheduled in the exhibit hall along with evening poster sessions.

Sponsorship Opportunities

ECS biannual meetings offer a wonderful opportunity to market your organization through sponsorship. Sponsorship opportunities include unparalleled benefits and provide an extraordinary chance to present scientific products and services to key constituents from around the world. Sponsorship allows exposure to key industry decision makers, the development of collaborative partnerships, and potential business leads. ECS welcomes support in the form of general sponsorship at various levels: Platinum: \$10,000+, Gold: \$5,000, Silver: \$3,000, and Bronze: \$1,500.

Sponsors will be recognized by level in *Interface*, the Meeting Program, meeting signage, and on the ECS website. In addition, sponsorships are available for the plenary and keynote talks and other special events. These opportunities include additional recognition, and may be customized to create personalized packages. Special event sponsorships will be assigned by the Society on a first-come, first served basis. Advertising opportunities—in the Meeting Program as well as in *Interface*—are also available. Please contact Becca Jensen Compton at 1.609.737.1902, ext. 102 for further details.

Contact Information

If you have any questions or require additional information, contact ECS, 65 South Main Street, Pennington, New Jersey, 08534-2839, USA, tel: 1.609.737.1902, fax: 1.609.737.2743, e-mail: meetings@electrochem.org; Web: www.electrochem.org.

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SYMPOSIUM TOPICS

A — Batteries and Energy Storage

- A01—Joint General Session: Batteries and Energy Storage -and- Fuel Cells, Electrolytes, and Energy Conversion
- A02—Batteries - Theory, Modeling, and Simulation
- A03—Batteries Beyond Lithium-Ion
- A04—Battery Safety
- A05—Electrolytes and Electrochemical Interfaces in Energy Storage Systems
- A06—High-Energy Li-Ion Intercalation Materials
- A07—Intermetallic Anodes
- A08—Materials and Cell Designs for Flexible Energy Storage and Conversion Devices
- A09—Recent Advances in Supercapacitors

B — Carbon Nanostructures and Devices

- B01—Carbon Nanostructures: Fullerenes to Graphene

C — Corrosion Science and Technology

- C01—Corrosion General Poster Session
- C02—Coating and Surface Modification for Corrosion Protection
- C03—Contemporary Aspects of Corrosion and Protection of Magnesium and Its Alloys
- C04—Corrosion Numerical Modeling 2
- C05—Critical Factors in Localized Corrosion 8
- C06—Pits & Pores 6: Nanomaterials, In Memory of Yukio H. Ogata

D — Dielectric Science and Materials

- D01—Nanocrystal-embedded Dielectrics for Electronic and Photonic Devices
- D02—Nonvolatile Memories
- D03—Photovoltaics for the 21st Century 11
- D04—Semiconductors, Dielectrics, and Metals for Nanoelectronics 13

E — Electrochemical/Electroless Deposition

- E01—Current Trends in Electrodeposition - An Invited Symposium
- E02—Fundamentals of Electrochemical Growth and Surface Limited Deposition
- E03—Novel Design and Electrodeposition Modalities 2
- E04—Semiconductors, Metal Oxides, and Composites: Metallization and Electrodeposition of Thin Films and Nanostructures 3

F — Electrochemical Engineering

- F01—Electrochemical Engineering General Session
- F02—Industrial Opportunities and Challenges in Electrochemical Engineering
- F03—Membrane-based Electrochemical Separations

G — Electronic Materials and Processing

- G01—Atomic Layer Deposition Applications 11
- G02—Semiconductor Cleaning Science and Technology 14 (SCST 14)
- G03—Thermoelectric and Thermal Interface Materials 2
- G04—ULSI Process Integration 9
- G05—GaN & SiC Power Technologies 5

H — Electronic and Photonic Devices and Systems

- H01—Low-dimensional Nanoscale Electronic and Photonic Devices 8
- H02—Solid-State Electronics and Photonics in Biology and Medicine 2
- H03—State-of-the-Art Program on Compound Semiconductors 58 (SOTAPOCS 58)

I — Fuel Cells, Electrolyzers, and Energy Conversion

- I01—Concentrated Solar Energy Conversion & Storage
- I02—Harnessing Multi-Step Electrochemical Reactions for Energy Conversion and Storage
- I03—High Temperature Experimental Techniques and Measurements 2
- I04—Ionic Conducting Oxide Thin Films
- I05—Polymer Electrolyte Fuel Cells 15 (PEFC 15)

J — Luminescence and Display Materials, Devices, and Processing

- J01—Physics and Chemistry of Luminescent Materials

L — Physical and Analytical Electrochemistry, Electrocatalysis, and Photoelectrochemistry

- L01—Physical and Analytical Electrochemistry, Electrocatalysis, and Photoelectrochemistry General Session
- L02—Charge Transfer in Biological Systems 2
- L03—Electroactive and Redox Active Polymers
- L04—Electrode Processes 10
- L05—Nanoscale Electrochemistry
- L06—Photocatalysts, Photoelectrochemical Cells, and Solar Fuels 6
- L07—Physical and Analytical Electrochemistry in Ionic Liquids 4
- L08—Single Particle/Molecule Electrochemical Detection

M — Sensors

- M01—Sensors, Actuators, and Microsystems General Session
- M02—New Paradigms in Sensor Technology
- M03—Sensors for Agriculture

Z — General

- Z01—General Society Student Poster Session
- Z02—Nanotechnology General Session
- Z03—Impedance Technologies, Diagnostics, and Sensing Applications