

Division News

New Division Officers

New officers for the 2011-2013 term have been elected for the following Divisions.



Electrodeposition Division

Chair

Lili Deligianni, IBM, T. J. Watson Research Center

Vice-Chair

Giovanni Zangari, University of Virginia

Secretary

Elizabeth Podlaha, Northeastern University

Treasurer

Stanko Brankovic, University of Houston

Senior Member-at-Large

Philippe Vereecken, IMEC

Junior Member-at-Large

Natasa Vasiljevic, University of Bristol

Fabio Fonseca, IPEN

Paul Gannon, Montana State University

Fernando Garzon, Los Alamos National Laboratory

Robert Glass, Lawrence Livermore National Laboratory

Srikanth Gopalan, Boston University

Turgut Gur, Stanford University

David Helmick, Carpenter Technology

Ellen Ivers-Tiffée, University of Karlsruhe

Silvia Licoccia, University di Roma Tor Vergata

Xingbo Liu, West Virginia University

Torsten Markus, Forschungszentrum Juelich

Toshio Maruyama, Tokyo Institute of Technology

Patrick Masset, Tu Bergakademie Freiberg

Nguyen Quang Minh, UC San Diego

Mogens Mogensen, Risoe National Laboratory

Jason Nicholas, Michigan State University

Juan Nino, University of Florida

Elizabeth Opila, University of Virginia

Subhash Singhal, Pacific Northwest Laboratories

Mark Swihart, University at Buffalo

Anil Virkar, University of Utah

Steven Visco, Lawrence Berkeley National Laboratory

Eric Wachsman, University of Maryland

Werner Weppner, Christian-Albrechts University Kiel

Mark Williams, University of Utah

Leta Woo, Lawrence Livermore National Laboratory

Eric Wuchina, Naval Surface Warfare Center

Shu Yamaguchi, University of Tokyo

Harumi Yokokawa, National Institute of Advanced

Industrial Science & Technology



Energy Technology Division

Chair

Jean St-Pierre, University of Hawaii at Manoa

Vice-Chair

Jeremy Meyers, University of Texas at Austin

Secretary

Adam Weber, Lawrence Berkeley National Laboratory

Treasurer

Scott Calabrese Barton, Michigan State University

Members-at-Large

Katherine Ayers, Proton Energy Systems

James M. Fenton, University of Central Florida

Sanjeev Mukerjee, Northeastern University

William Earl Mustain, University Of Connecticut

Peter N. Pintauro, Vanderbilt University

Krishnan Rajeshwar, University of Texas

Minhua Shao, Brookhaven National Lab

Jurgen Stumper, Automotive Fuel Cell Cooperation

John Weidner, University of South Carolina

Karim Zaghib, Hydro-Quebec



Luminescence and Display Materials Division

Chair

John Collins, Wheaton College

Vice-Chair

Baldassare Di Bartolo, Boston College

Secretary

Anant A. Setlur, GE Global Research

Treasurer

Madis Raukas, Osram Sylvania

Members-at-Large

David J. Lockwood, National Research Council - Canada

Holly A. Comanzo, GE Global Research Center

Alok M. Srivastava, GE Global Research Center

Uwe Happek, University of Georgia

Charles E. Hunt, Univ of California, Davis

Marco Kirm, University of Tartu



High Temperature Materials Division

Chair

Jeffrey Fergus, Auburn University

Sr. Vice-Chair

Timothy Armstrong, Carpenter Technology

Jr. Vice-Chair

Xiao-Dong Zhou, University of South Carolina

Secretary/Treasurer

Greg Jackson, University of Maryland

Members-at-Large

Stuart Adler, University of Washington

Mark Allendorf, Sandia National Laboratories

Sean Bishop, Kyushu University

Fanglin (Frank) Chen, University of South Carolina

Elisabetta DiBartolomeo, University di Roma Tor

Vergata

Koichi Eguchi, Kyoto University

Emiliana Fabbri, Nanomaterials for Fuel Cells Group

Corporate Member News

Spotlight on Princeton Applied Research and Solartron Analytical



**Princeton
Applied
Research**



Princeton Applied Research and **Solartron Analytical** are global leaders in the manufacture and distribution of laboratory instruments for research in the fields of electrochemistry and materials characterization. Both joining the AMETEK, Inc. family within the past decade and in business for a combined 113 years, researchers rely on them to continue investing and supporting the electrochemical and materials research fields with leading-edge products and world-class technical assistance in their research endeavors.

Princeton Applied Research, celebrating its 50th anniversary in 2011, pioneered the potentiostat/galvanostat for electrochemical research. From the

earliest Model 170 system to today's VersaSTAT and PARSTAT models, Princeton Applied Research continues to innovate and create value with its broad spectrum of electrochemical-based research instruments and accessories, including a line of scanning products for localized electrochemical investigations.

Solartron Analytical is renowned for their instruments and expertise in electrochemical impedance spectroscopy. Building upon a foundation of reference-grade frequency response analyzers, they also supply both single channel and multichannel potentiostats/galvanostats that combine to create powerful research systems. To support today's ever-changing needs of the researcher, Solartron offers

the ModuLab ECS and ModuLab MTS systems, creating a whole new level in modular design, flexibility, and capability for the electrochemical and materials researcher.

Together, Princeton Applied Research and Solartron Analytical have enabled researchers for decades to investigate and publish some of the world's most groundbreaking advancements in their respective fields of research electrochemistry, corrosion, sensors, nanotechnology, materials science, and energy storage / conversion on devices like batteries, super capacitors, fuel cells, and solar cells. Both companies have a strong commitment to continue helping researchers lead the way to a better tomorrow. ■

In the **NEXT** issue of **INTERFACE**

- **EDUCATION** is the featured topic in the spring 2012 issue, guest edited by Jeff Fergus, Materials Education and Research Center, Auburn University. Featured articles include **Marye Ann Fox**, Chancellor, University of California San Diego, on "As Goes California, So Goes the Nation: A Precautionary Tale for American Public Research Universities;" **Larry Faulkner**, former President of the University of Texas at Austin and President of the Houston Endowment, Inc., on what makes the field vital and exciting, how electrochemical science and engineering stacks up, and where we might focus our attention to enhance the vigor and visibility of our field; **Wesley Harris**, Associate Provost, MIT, and **John Scully**, University of Virginia, on findings of the NRC report on Assessment of Corrosion Education; **Dan Scherson**, Case Western

Reserve University and ECS journals Editor, on current and needed coverage of electrochemistry in physical chemistry textbooks; and **Durga Misra**, New Jersey Institute of Technology, on educational initiatives related to dielectric and semiconductor materials, devices, and processing.

- **ECS SPRING 2012 MEETING IN SEATTLE...** The spring issue will feature a special section on the upcoming ECS meeting, with information on special lectures and symposia, and the latest on the ECS Meeting app.
- **TECH HIGHLIGHTS** will continue to provide readers with free access to some of the most interesting papers published in the ECS journals.
- Don't miss the next edition of **WEBSITES OF NOTE** which gives readers a look at some little-known, but very useful sites.

ECS Division Contacts



Battery

Arumugam Manthiram, Chair
University of Texas
 rmanth@mail.utexas.edu • 512.471.1791 (USA)
 Bor Yann Liaw, Vice-Chair Christopher Johnson, Treasurer
 Robert Kostecki, Secretary



Corrosion

Douglas Hansen, Chair
University of Dayton Research Institute
 douglas.hansen@udri.udayton.edu • 937.229.4380 (USA)
 Shinji Fujimoto, Vice-Chair R. Scott Lillard, Secretary/Treasurer



Dielectric Science and Technology

Kalpathy Sundaram, Chair
University of Central Florida
 sundaram@mail.ucf.edu • 407.823.5326 (USA)
 Oana Leonte, Vice-Chair Dolf Landheer, Treasurer
 Hazara Rathore, Secretary



Electrodeposition

Hariklia Deligianni, Chair
IBM, T.J. Watson Research Center
 lili@us.ibm.com • 914.945.1282 (USA)
 Giovanni Zangari, Vice-Chair Stanko Brankovic, Treasurer
 Elizabeth Podlaha, Secretary



Electronics and Photonics

Pablo Chang, Chair
Northrop Grumman
 pablo.chang@ngc.com • 310.812.9067 (USA)
 Andrew Hoff, Vice-Chair Mark Overberg, Secretary
 Fan Ren, 2nd Vice-Chair Edward Stokes, Treasurer



Energy Technology

Jean St-Pierre, Chair
University of Hawaii at Manoa
 jsp7@hawaii.edu • 808.956.3909 (USA)
 Jeremy Meyers, Vice-Chair Scott Calabrese Barton, Treasurer
 Adam Weber, Secretary



Fullerenes, Nanotubes, and Carbon Nanostructures

Dirk Guldi, Chair
University of Erlangen-Nurnberg
 dirk.guldi@chemie.uni-erlangen.de • +49 9131.852.7340 (Germany)
 R. Bruce Weisman, Vice-Chair Francis D'Souza, Treasurer
 Jean-François Nierengarten,
 Secretary



High Temperature Materials

Jeffrey Fergus, Chair
Auburn University
 jwfergus@eng.auburn.edu • 334.844.3405 (USA)
 Timothy Armstrong, Sr. Vice-Chair Gregory Jackson, Secretary/Treasurer
 Xiao-Dong Zhou, Jr. Vice-Chair



Industrial Electrochemistry and Electrochemical Engineering

Vijay Ramani, Chair
Illinois Institute of Technology
 ramani@iit.edu • 937.229.4380 (USA)
 Gerardine Botte, Vice-Chair
 Venkat Subramanian, Secretary/Treasurer



Luminescence and Display Materials

John Collins, Chair
Wheaton College
 jcollins@wheatonma.edu • 508.286.3976 (USA)
 Baldassare Di Bartolo, Vice-Chair Madis Raukas, Treasurer
 Anant A. Setlur, Secretary



Organic and Biological Electrochemistry

Dennis Peters, Chair
Indiana University
 peters@indiana.edu • 812.855.9671 (USA)
 James Burgess, Vice-Chair
 Mekki Bayachou, Secretary/ Treasurer



Physical and Analytical Electrochemistry

Shelley Minteer, Chair
University of Utah
 minteer@chem.utah.edu • 801.587.8325 (USA)
 Robert Mantz, Vice-Chair Andrew Hillier, Treasurer
 Pawel Kulesza, Secretary



Sensor

Zoraida Aguilar, Chair
Ocean Nano Tech, LLC
 zapaguilar@yahoo.com • 479.571.5500 (USA)
 Michael Carter, Vice-Chair Nianqiang (Nick) Wu, Treasurer
 Bryan Chin, Secretary



websites of note

by Zoltan Nagy

Biographical Memoirs of American Scientists

Many hundreds of "Biographical Memoirs" are available, published by "The National Academies Press," covering American scientists from a wide variety of disciplines, including some connected to electrochemistry.

- <http://books.nap.edu/html/biomems>

Raymond Matthew Fuoss (by M. A. Coplan)

Physical chemist with a strong interest in the conductance of electrolytes and irreversible processes in electrolytes, Fuoss's work included all aspects of electrolytic conductivity from the development of new instruments and techniques to high quality conductance data and the theoretical development of ever more refined conductance equations. He determined conductance for the wide variety of solvents and solutes over a wide range of dielectric constant, viscosity, and temperature.

- <http://books.nap.edu/html/biomems/rfuoss.pdf>

Izaak Maurits Kolthoff (by J. F. Coetzee)

Widely regarded as the father of modern analytical chemistry. He contributed significantly to electroanalytical chemistry. He developed the theory of potentiometric and conductometric titrations and studied voltammetry on dropping mercury electrodes, and on solid microelectrodes. He also worked on the colorimetric and potentiometric determination of pH, the pH concept, titrations, indicators, and buffers.

- <http://books.nap.edu/html/biomems/ikolthoff.pdf>

Charles Norwood Reilley (by R. W. Murray)

Analytical chemist with strong interest in electrochemical analysis. He devised many instrumental methods for detection of chemical reactions as they reached stoichiometric completion, using polarized electrodes, coulometry, high frequency impedance, optical absorbance, and nuclear magnetic resonance. He contributed to early understanding of chronopotentiometry and thin layer electrochemistry. He invented a membrane electrode that was commercialized for determination of dissolved oxygen in natural waters. He was interested in high frequency titrimetry and constant current coulometric analysis.

- <http://books.nap.edu/html/biomems/creilley.pdf>

About the Author

ZOLTAN NAGY is a semi-retired electrochemist. After 15 years in a variety of electrochemical industrial research, he spent 30 years at Argonne National Laboratory carrying out research on electrode kinetics and surface electrochemistry. Presently he is at the Chemistry Department of the University of North Carolina at Chapel Hill. He welcomes suggestions for entries; send them to nagyz@email.unc.edu.

Have you moved or are you planning to move?

Please take a moment to fill out this form with your updated contact information and return it to ECS.

(The Electrochemical Society, 65 South Main Street, Building D, Pennington, NJ, 08534-2839, USA)

(Please print clearly)

Name _____ Membership No. _____

Old address

Organization _____

Address _____

City _____

State/Province _____

Postal Code _____

Country _____

E-Mail _____

New address

Organization _____

Address _____

City _____

State/Province _____

Postal Code _____

Country _____

E-Mail _____

Phone _____

Fax _____