Society News

Spotlight on the IE&EE Division

The newly renamed Industrial ELECTROCHEMISTRY AND ELECTROCHEMICAL ENGINEERING DIVISION enjoyed a very successful program during the recent 2006 Joint International Meeting in Cancun, Mexico. The Division's new name reflects the breadth of its interest, beyond just electrolysis, to include all industrial electrochemistry. Its acronym (IE&EE) remains the same.

The IE&EE Division organized its first OUTREACH PROGRAM to educate 65 high school and 100 undergraduate freshmen Cancun students in the area of hydrogen polymer electrolyte membrane (PEM) fuel cells. The IE&EE Division purchased four fuel cell model cars used by the students in a competition to see who could estimate the hydrogen required to fuel their cars to go a measured distance. The student team that came closest to the mark won. The fuel cell model cars were donated by the IE&EE Division to the various schools that participated. IE&EE members Gerardine Botte (Ohio University), Venkat Subramanian (Tennessee Tech University), and Dennie Mah (DuPont Company and Chair of the IE&EE Division), participated in the Outreach Program. Professor Botte facilitated the active learning program by presenting the program material in Spanish. The Division thanks the students of the Instituto Tecnologico de Cancun (ITC), Colegio de Bachilleres No. 1, CBTIS III, and the following student staff: Ivonne Alonso Lemus, Gabriel Rosado Ortiz, Mauricio Camarena, Ana Maria Valeneuela Muniz, Romeli Barbosa Pool, Lizbeth Moraqles Salas, and Dr. Jose Ysmael Verde Gomez; and ITC's Director M. C. Erasmo Martinez Rodriguez.

The IE&EE Division is please to announce the following Division awards. The 2007 ECS IE&EE Division New Electrochemical Technology (NET) Award has been awarded to Ballard Power Systems, Cogeneration Power Platform, Burnaby, BC, Canada, for Ballard Power System's Mark 1030 fuel cell, as integrated into Ebara Ballard Corporation's residential fuel cell cogeneration system. The award also recognizes its six key contributors: Terry Howe, Evelyn Lai, Mike Abley, Greg Knowles, Steve Pratt, and Craig Padberg.

The 2007 ECS IE&EE Division H. H. Dow MEMORIAL STUDENT ACHIEVEMENT AWARD has been awarded to Brenda Lee Garcia-Diaz (University of South Carolina); and the 2007 ECS IE&EE Division STUDENT ACHIEVEMENT AWARD has been awarded to Minhua Shao (Stony Brook University).

The IE&EE Division is seeking authors for the Division's **REPORT ON THE ELECTROLYTIC INDUSTRIES** that is published annually and compiles recent events in the field of industrial electrochemistry and electrochemical engineering. Please contact Dennie Mah at 302.367.6475 or doctor_electro@msn. com if you are interested in this two-year commitment.



The ECS IE&EE Division launched a new Outreach program during the Joint International Meeting in Cancun. Pictured above are the participants in the program. In the back row, beginning at the left, are Venkat Subramanian, Tennessee Tech University; Dennie Mah, DuPont Company and chair of the IE&EE Division; Ysmael Verde, Instituto Tecnologico de Cancun (ITC); and M. C. Erasmo Martinez Rodriguez, Director of ITC. In the middle row, on the left, is Gerardine Botte, Ohio University, who facilitated the active learning program. The students (in white shirts and holding certificates) were the winning team. The student in the front row, center, is holding one of the fuel cell model cars.



Mexican newspapers, such as the one pictured here, and television stations covered the ECS IE&EE outreach program in Cancun.

ECS Division Contacts



Battery

Kuzhikalail M. Abraham, Chair

E-Kem Sciences

kmabraham@comcast.net • 781.444.8453 (USA)

Charles Richard Walk, Vice-Chair
Nancy J. Dudney, Treasurer
Zempachi Ogumi, Secretary
Curtis F. Holmes, Division Advisor



Corrosion

Patrik Schmuki, Chair University of Erlangen

schmuki@ww.uni-erlangen.de • 49.913.1852.7575, ext. 13260 (Germany)

Alison J. Davenport, Vice-Chair Douglas C. Hansen, Secretary/Treasurer Gerald S. Frankel, Division Advisor



Dielectric Science and Technology

Katalin Voros, Chair *Univ of California, Berkeley* voros@eecs.berkeley.edu • 510.642.2716 (USA)

D. Misra, Vice-Chair K. B. Sundaram, Secretary
D. Landheer, Treasurer M. Doeff, Division Advisor



Electrodeposition

W. Schwarzacher, Chair *University of Bristol* w.schwarzacher@bristol.ac.uk

G. Stafford, Vice-Chair C. Bonhôte, Secretary

K. Kondo, Treasurer C. Bruckner-Lea, Division Advisor



Electronics and Photonics

Jerzy Ruzyllo, Chair Pennsylvania State University jruzyllo@psu.edu • 814.865.5193 (USA)

A. Baca, First Vice-Chair J. Murota, Second Vice-Chair D. Harame, Secretary R. Ridley, Treasurer

M. Jamal Deen, Division Advisor



Energy Technology

Jai Prakash, Chair Illinios Institute of Technology prakash@iit.edu • 312.567.3639 (USA)

K. Zaghib, Vice-ChairJ. St-Pierre, TreasurerJ. Weidner, Division Advisor



Fullerenes, Nanotubes, and Carbon Nanostructures

F. D'Souza, Chair Wichita State University

Francis.DSouza@Wichita.edu • 316.978.7380 (USA)

D. Guldi, Vice-Chair R. Weisman, Secretary
P. Kamat, Treasurer C. Holmes, Division Advisor



High Temperature Materials

E. Wachsman, Chair University of Florida

ewach@mse.ufl.edu • 352.846.2991 (USA)

E. Wuchina, Vice-Chair E. Traversa, Junior Vice-Chair J. Fergus, Secretary/Treasurer P. Hesketh, Division Advisor



Industrial Electrochemistry and Electrochemical Engineering

Dennie T. Mah, Chair

DuPont

doctor_electro@msn.com • 302.367.6475 (USA)

J. Weidner, Vice-Chair

V. K. Ramani, Secretary/Treasurer

G. Frankel, Division Advisor



Luminescence and Display Materials

A. Setlur, Chair

GE Global Research Center

setlur@research.ge.com • 518.387.6305 (USA)

U. Happek, Vice-Chair

K. Mishra, Secretary/Treasurer

V. Kapoor, Division Advisor



Organic and Biological Electrochemistry

James F. Rusling, Chair University of Connecticut

James.Rusling@uconn.edu • 860.486.4909 (USA)

I. Taniguchi, Vice-Chair A. Fry, Secretary/Treasurer

M. Jamal Deen, Division Advisor



Physical and Analytical Electrochemistry

Gessie Brisard, Chair University of Sherbrooke

Gessie.Brisard@USherbrooke.ca • 819.821.7093 (Canada)

H. DeLong, Vice-Chair P. Trulove, Secretary/Treasurer

C. Bruckner-Lea, Division Advisor



Sensor

Rangachary Mukundan, Chair Los Alamos National Laboratory

 $mukundan@lanl.gov \cdot 505.665.8523 \; (USA)$

Jing Li, Vice-Chair Zoraida P. Aguilar, Secretary

Michael T. Carter, Treasurer

Society News

Corporate Membership News

ECS recently welcomed a three new Sponsoring level Corporate Members, ElectroChem, Inc., Eco Chemie, and the ECHEM Centre of Competence in Applied Electrochemistry; as well as one Sustaining level Corporate Member, Faraday Technology, Inc.

ELECTROCHEM INCORPORATED was founded in 1986 with a strong reputation for successful problem solving in the field of fuel cells, a reputation that began in 1967. ElectroChem strives to be the best by listening to its customers, and developing simple, yet elegant and productive solutions. According to the company, many of their customers select ElectroChem to be their partner in creating innovative and reliable answers to their needs. ElectroChem is committed to rapidly advancing the commercialization of the fuel cell industry.

Eco CHEMIE, founded in 1986 and a member of the Metrohm group since 1999, designs and manufactures state-of-the-art Autolab series of instrumentation and software for electrochemistry and biochemistry. ISO 9001:2000 certified, Eco Chemie has been setting the benchmark in electrochemical research instrumentation for already two decades. With the company's background and knowledge in electrochemistry and biochemistry, and its worldwide distributor network. its mission is to serve the research community worldwide by supplying modern, affordable instruments, software, and accessories.

FARADAY TECHNOLOGY, INC. has developed, patented, and successfully marketed the Faradayic™ Process, a platform technology enabling improved electric field process control for a variety of electrochemical-based processes. Faraday's strengths reside in both process development and the unique engineering design and build of electrochemical cells, machines, modules, tools, and fixtures.

Two current Corporate Members recently upgraded their membership levels. **OM GROUP, INC.** went up to the Patron level, and **OSRAM SYLVANIA** became a Sponsoring level member. The Patron level entitles an organization to online access to ECS serial publications for employees at two facilities and Sponsoring Level allows online access at one facility.

As an ECS Corporate Member, your organization benefits through: online access to ECS serial publications; recognition in all ECS publications; subscriptions to two highly rated journals in the field, the *Journal of The Electrochemical Society* and *Electrochemical and Solid-State Letters*, and *Interface*; and, complimentary individual membership and registrations to our biannual meetings, which attract upwards of 3,500 scientists each year.

If your organization is interested in supporting ECS and receiving the benefits of Corporate Membership, please contact Amir Zaman, Associate Director of Corporate and Government Relations, at amir.zaman@electrochem.org or 609.737.1902 x103.



DURACELL was recently presented with an ECS Leadership Circle Award, marking the company's 50th year of corporate membership. Pictured above (from left to right) are: John Weckesser, Yelena Kouznetsova, and Michael Pozin, all from Duracell; John Susko, ECS Treasurer; Joseph Dooley, President of Duracell; Amir Zaman, ECS Associate Director of Corporate and Government Relations; and Matthew Hull, Daniel Gibbons, and Steven Specht, all from Duracell.

New Division Officers

New officers for the 2006-2008 term have been elected for the following Divisions.



Battery Division

Chair
Kuzhikalail Abraham
Vice-Chair
Charles (Dick) Walk
Secretary
Zempachi Ogumi
Treasurer
Nancy Dudney
Members-at-Large
Arumugam Manthiram
Daniel Doughty



Corrosion Division

Bor Yann Liaw

Yang Shao-Horn

Chair
Patrik Schmuki
Vice-Chair
Alison Davenport
Secretary/Treasurer
Doug Hansen
Members-at-Large
Nancy Missert



Sensor Division

Chair
Rangachary Mukundan
Vice-Chair
Jing Li, NASA
Secretary
Zoraida P. Aguilar
Treasurer
Michael T. Carter