



The Electrochemical Society



electrochemical energy summit 2013

224th ECS Meeting

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October Energy Summit an International Success

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Third International ECS Electrochemical Energy Summit (E2S) Convenes in San Francisco

Successful exchange between leading policy makers and energy experts lays the groundwork for future initiatives

Global energy needs continue to grow with economic, political, and environmental issues largely dictated by energy challenges. The **third international ECS Electrochemical Energy Summit (E2S)** was well-attended in San Francisco on October 27 and October 28. The summit presented a valuable dialogue between leading policy makers and energy experts about society needs and technological energy solutions.

ECS President Welcomes Summit Attendees

Welcoming attendees to the two-day event, **ECS President Tetsuya Osaka** stated, "There is a worldwide and urgent need for scientific innovation in the areas of energy sustainability. Members of our community are leading the important race to discover and implement solutions, from identifying and expanding green renewable energy sources; examining the interaction the energy–water nexus, two critical resource issues; developing new batteries and fuel cell technologies to power vehicles or storage alternatives; and addressing a host of other twenty-first century sustainability challenges." Professor Osaka continued, "The experts who have agreed to participate and present their innovative ideas at E2S are all leaders in their fields, and we appreciate the time that they are devoting to this particular conference and to the science in its entirety."

Echoing President Osaka's sentiment, **Dr. Robert Glass**, Senior Scientist in the Physical and Life Sciences Directorate at Lawrence Livermore National Laboratory (LLNL) commented, "We are delighted to be able to open our third E2S Energy Summit with such an outstanding selection of Plenary speakers. A special focus of the Sunday session is on California, a state that perhaps will be the most impacted by energy, water, and climate issues, but is also the leader in adopting innovative solutions."

Congressman Jerry McNerney (CA-09), one of the key presenters at the Sunday program, is the only renewable energy expert in the U.S. Congress and sits on the House Committee on Energy & Commerce, as well as several subcommittees. He offered, "In California, we are blessed with the Delta, the most robust and valuable estuary west of the Mississippi River. This vital resource also presents us with opportunities to address water resource challenges and climate change. I was glad to participate in the third international E2S and discuss ways that we can encourage innovation and investment in our clean energy future. Bringing together so many great minds will help us make progress in California and around the country in the clean energy sector."

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The Energy–Water Nexus

Events on Monday brought even greater significance to the important energy-water nexus. “The development of clean, affordable energy is one of society’s greatest challenges,” commented **Eric Wachsman** who, along with **Carl Hensman** of the Bill & Melinda Gates Foundation moderated part of the program. Dr. Wachsman continued, “There is a direct correlation between energy use, productivity and the standard of living. This revolutionary summit was successful in bringing together some of the world’s leading scientists and policy makers to address these challenges. Their insightful presentations and discussions encourage our own scientific community to discover and implement energy initiatives that will provide long-term solutions.”

Professor Mark S. Wrighton Delivers the ECS Lecture

In his address to the full session of the 224th ECS Meeting, **Mark S. Wrighton**, Ph.D., who was named the 14th Chancellor of Washington University in 1995, and serves as its chief executive officer, discussed “America’s Energy Future: Science, Engineering, and Policy Challenges.” He called attention to the many challenges that must be overcome in a number of critical areas, and the importance of the science and engineering community in leading the way.

Summit Events

Also onsite and on display were the **Honda FCX Clarity** and the **Mercedes Benz B Class FCell**, compliments of the California Fuel Cell Partnership. “Fuel cell electric vehicles and hydrogen fuel are part of America’s energy future,” said Catherine Dunwoody, executive director of the California Fuel Cell Partnership. “We’re excited to showcase the investments that government and industry have made in bringing FCEVs to the commercial market, and to demonstrate results coming from the research and development of the science and engineering community.”

ECS also welcomed **students from Lowell High School and Galileo Academy of Science & Technology** in the San Francisco Bay Area who participated in the twelfth Educational Outreach Program, under the guidance of the Industrial Electrochemistry and Electrochemical Engineering (IE&EE) Division. Commenting on the program, which is designed inspire the future generation on the importance of electrochemical science, engineering, and technology on the solution of global problems related with the sustainability of energy and water, **Dr. Gerardine G. Botte**, Director, Center for Electrochemical Engineering Research (CEER), said, “The program has been a success and has reached out to over 660 participants from middle and high schools. The participants learn by doing and having fun. It is exciting to see the students passionate about the program and eager to learn.” This particular day of learning, side-by-side with graduate student mentors and members, was capped off by a successful Fuel Cell Car Competition created by the students.

E2S Highlights

A complete schedule of events and presentations, speakers and biographies, and media opportunities is available at www.electrochem.org/e2s.

Media interested learning more about ECS and the E2S initiatives may contact: karen.ornstein@electrochem.org or 609-737-1902, Ext. 114



About ECS

With more than 100 years of history, ECS is the recognized and trusted steward of the science. And, in today's fast-paced news cycle, ECS scientists and researchers are developing the innovations and ECS estimates that nearly 65% of the content it publishes daily and presents at multiple international meetings involves the sustainability of our planet. The electrochemistry and solid state science community is discovering and developing the scientific breakthroughs that enable innovations such as the electrochemical toilet, lithium-ion batteries, solar fuels, and other scientific initiatives that are helping to solve real world issues, creating the technology that drives change and scientific improvement.