## ECS Establishes SES Research Young Investigator Award of the FNCN Division

The **ECS Fullerenes, Nanotubes, and Carbon Nanostructures (FNCN) Division** has recently established a second award, the **SES Research Young Investor Award**. This award, to be presented for the first time in 2009, was created to encourage promising researchers to remain active in the fields of fullerenes, nanotubes, and carbon nanostructures.

Francis D'Souza, chair of the FNCN Division, said, "Establishing the second award to recognize outstanding persons in their early career is an important step to encourage the next generation of scientists to be active in the area of fullerenes, nanotubes, and carbon nanostructures, and involve them more in ECS sponsored activities. Both the Smalley Research and the SES Research Young Investigator Awards are expected to increase the visibility of the FNCN Division within and outside ECS. The FNCN Division is comprised of an international body of scientists including those from the North America, Europe, and Asia. Therefore, these awards will have an international flavor to them. We also hope that these newly established awards will appeal more researchers to participate in the FNCN Division-sponsored symposia and make ECS the platform to discuss and disseminate their research findings. As Chair of the Division, I also take this opportunity to thank the donors for their generous help to setup the endowment, members of the FNCN community for their support, and the hardworking ECS staff to make these things possible."

SES Research was founded in the early years of fullerene research, in 1991, by two University of Houston graduates, Christopher Burres and Robert Wong, with the simple idea of supplying fullerenes to the world. Armed with the knowledge of making fullerenes, and the understanding that fullerenes will one day have an impact on the daily life of everyone, SES Research opened its doors to the worldwide fullerene research community. SES Research quickly became known as a premier commercial carbon fullerene supplier, manufacturing and distributing Carbon 60, Carbon 70, nanotubes, and fullerene-related HPLC columns worldwide. The Houston, Texas based company currently supplied a complete list of fullerenes and carbon nanotubes to academic and government labs and commercial companies worldwide. The capability to design and manufacture prototype equipment has remained one of the core competencies of SES Research as it continues to use this competency to support the large petroleum industry in Houston.

When approached about funding an ECS award, Mr. Wong, owner of SES Research, said, "We would love to give back to the fullerene community and ECS, who have supported our company over the years. What a great opportunity to help the future of fullerene research, maybe one of these young researchers will give us the next life changing development."

Nominations and supporting documents for the SES Research Young Investigator Award should be sent to Prashant Kamat at kamat@hertz.rad.nd.edu. Materials are due September 1, 2008. For rules and eligibility visit: http://www.electrochem.org/awards/division/division_awards.htm#u.

## Corporate Membership News

The number of companies supporting ECS and enjoying the benefits of corporate membership continues to grow with five new sponsors. Our new members include Johnson Matthey, AMEC, and Gamry Instruments at the Sponsoring level; and Ford Motor Company and Los Alamos National Laboratory at the Sustaining level. In addition to our new partners, five existing members have upgraded their membership to the Sponsoring level. These organizations include Coolohm, Inc., the Lawrence Berkeley National Laboratory, Matsushita Battery Industrial Co., Siltronic AG, and TIMCAL.

**Johnson Matthey** is a specialty chemicals company focused on its core skills in catalysts, precious metals, fine chemicals, and process technology. The group's principal activities are the manufacture of autocatalysts, heavy duty diesel catalysts and pollution control systems, catalysts and components for fuel cells, catalysts and technologies for chemical processes, fine chemicals, chemical catalysts and active pharmaceutical ingredients, and the marketing, refining, and fabrication of precious metals. Johnson Matthey has operations in over 30 countries

and employs around 7,800 people. Its products are sold across the world to a wide range of advanced technology industries.

**AMEC** (Advanced Micro-Fabrication Equipment Inc.) is an emerging Asia-based semiconductor equipment company with a portfolio of proprietary wafer fabrication solutions designed to advance technology, increase productivity, and reduce manufacturing costs for leading global semiconductor manufacturers. Strategically head-quartered in the hub of the semiconductor manufacturing industry, AMEC's proprietary etch and chemical vapor deposition (CVD) systems combine unique technology solutions with economic innovations for the 65/45-nm nodes and beyond. AMEC's global infrastructure will include R&D, manufacturing, business, and support operations in China, Japan, Korea, Singapore, Taiwan, and the U.S.

**Gamry Instruments** designs and manufactures potentiostats and electrochemical software for physical electrochemistry, electroanalytical chemistry, battery and fuel cell development, corrosion measurement, and sensor evaluation. Gamry potentiostats are built for high performance and excellent reliability. The software combines ease-of-use and versatility for a high-value package. A Gamry system can be configured to perform virtually any electrochemical technique… from cyclic voltammetry to EIS and repeating chronoamperometry, to electrochemical frequency modulation. Multiple-potentiostat systems are available for laboratories with high sample volume.

Gamry also provides expert advice on the application of electrochemical instruments in the laboratory. Every Gamrarian who consults with our users has laboratory experience with potentiostats and understands the importance of combining good instrumentation with good laboratory technique.

**Ford Motor Company**, a global automotive industry leader based in Dearborn, Michigan, manufactures or distributes automobiles in 200 markets across six continents. With about 260,000 employees and about 100 plants worldwide, the company's core and affiliated automotive brands include Ford, Jaguar, Land Rover, Lincoln, Mercury, Volvo, and Mazda. Ford is committed to address the twin challenges of climate change and energy independence, as evidenced through its Greener Miles campaign, which strives to provide sustainable transportation for its customers that is affordable socially, environmentally, and economically. To this end, Ford is advancing with a variety of technologies, some on the road today and others that show great promise for the future. These include hybrids, hydrogen fuel cells, hydrogen combustion engines, clean diesel, flexible fuel and biofuel vehicles, and energy efficient, advanced powertrains.

**Los Alamos National Laboratory** is a premier national security research institution, whose primary responsibility is ensuring the safety, security, and reliability of the nation's nuclear deterrent. Lab R&D helps curb a variety of threats including proliferation of nuclear weapons, spread of deadly diseases, inadequate supplies of energy, and effects of climate change.

Corporate membership is a relationship of great mutual benefit to both member organizations and ECS. As a corporate member, your organization can receive: password-free online access to current and archived content in both of ECS's serial publications, the *Journal of The Electrochemical Society* and *Electrochemical and Solid-State Letters* for company facilities; complimentary individual memberships; free meeting registrations to our biannual events, which attract upwards of 3,500 scientists each year; subscriptions to ECS's two highly rated journals and the quarterly, Interface; recognition throughout ECS website publications; and much more.

## Corporate Member Spotlight

The Corporate Member Spotlight features several partner organizations that have made an investment in the future of the Society. In return for their support, ECS provides corporate members with an excellent package of benefits including complimentary ECS meeting registrations, free Active memberships for company employees, and, most importantly, online access to all current and archived Journal and Letters articles in the ECS Digital Library.

**Duracell** — *Benefactor Level Member since 1957* — Part of the Procter & Gamble Company, Duracell is the world's leading manufacturer of high-performance alkaline batteries. Duracell also sells various other types of batteries including lithium and zinc air batteries, as well as rechargeable Nickel-Metal Hydride (NiMH) batteries and chargers. According to the company's website, three billion times a day, P&G brands touch the lives of people around the world. The company has one of the strongest portfolios of trusted, quality, and leadership brands. The P&G community consists of 138,000 employees working in over 80 countries worldwide.

**FMC Corporation** — *Benefactor Level Member since 1996* — FMC Corporation is a diversified chemical company serving agricultural, industrial, and consumer markets globally for more than a century with innovative solutions, applications, and quality products. The company employs over 5,000 people throughout the world. The company operates its businesses in three segments: agricultural products, specialty chemicals, and industrial chemicals. Feeding the world, protecting health, and providing the conveniences of life—that is the mission of FMC. With superior technology and strong partnerships with customers, FMC's people are finding solutions that are helping to change people's lives for the better.

**Giner, Inc.** — *Sustaining Level Member since 1986* — Giner, Inc. is a small business founded by Dr. Jose Giner in 1973 with the objective of performing applied research and development (R&D) in electrochemistry and materials science. The work is directed toward developing innovative materials and components, subsystems, and complete systems. During 35 years of operation, Giner, Inc. has successfully conducted R&D programs leading to commercialization in the

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electrochemical energy conversion and biomedical/life science fields of use.

Giner Electrochemical Systems, LLC (GES) (established in 2000), is an alliance between Giner, Inc. and General Motors Corporation (GM). GES, a subsidiary of Giner, Inc. and a small business, is majority owned, controlled, and operated by Giner, Inc. A goal of this alliance is to develop and characterize advanced, low-cost and efficient materials, components, and processes for fuel cells and related devices for the transportation field of use.

Giner, Inc. has successfully commercialized its laboratory electrolyzer cell stack and electrochemical gas sensor technologies. Giner, Inc./GES has also successfully conducted R&D programs with the objectives of commercialization of high-pressure electrolyzers for space, sea, and commercial applications; electrochemical gas concentrators for enriching and/or controlling atmospheres containing oxygen, hydrogen, or nitrogen; and electrochemical capacitors for uninterruptible power, space, and biomedical applications.

**Coolohm Inc.** — *Sponsoring Level Member since 2006* — Coolohm Inc., a technical consulting company, specializes in electrochemical power sources (batteries, fuel cells, and capacitors) and their electronic applications. It provides technical support to engineers, corporate managers, and attorneys in: product design, testing, and qualification; employee and customer training; power systems integration; battery-system problem solving and root-cause analysis; and related intellectual property development or litigation.

The company President, Kathryn Bullock, is an ECS Fellow, Past-President, and Battery Division Award winner. She has a PhD in physical chemistry from Northwestern University and 30+ years of industrial experience in developing and applying batteries and capacitors to industrial, utility, telecommunications, automotive, medical, and consumer applications. She teaches an IEEE fuel-cell tutorial and also a Villanova University graduate engineering course in fuel cells, batteries, and capacitors.

If your organization is interested in supporting ECS and receiving the benefits of corporate membership, please contact Amir Zaman, Director of Membership and Development, at amir.zaman@electrochem.org or 609.737.1902, ext. 103.