

Vienna Student Poster Session Award Winners



The Vienna Meeting Student Poster Session award winners received their certificates from ECS President Paul Natishan; pictured (standing, from left to right) are: **E. JENNINGS TAYLOR** (one of the judges), **GERRI BOTTE** (one of the session organizers), **VENKAT SUBRAMANIAN** (session chair), ECS President **PAUL NATISHAN**, Poster Session winner **FREDERIK GOLKS**, winner **MANALE MAALOUF**, and **OANA LEONTE** (judge). Kneeling in front is winner **JAROSLAW SYZDEK**. Missing from the photo are award winner **MAGDALENA GIZOWSKA** and the many other judges who assisted with the competition.

The **Student Poster Session** at the ECS fall meeting in Vienna received 113 posters and the results of the competition were as follows.

First Place in Electrochemical Science & Technology went to **Manale Maalouf** (Case Western Reserve University) for Paper #16, "Study of Conductivity of Triazole-Based Electrolytes for High Temperature Fuel Cell Applications" (T. Zawodzinski, Case Western Reserve University, adviser).

First Place in Solid State Science & Technology went to **Jaroslaw Syzdek** and **Magdalena Gizowska** (Warsaw University of Technology) for Paper #92, "Ceramic-in-Polymer vs. Polymer-in-Ceramic Polymeric Electrolytes: A Novel Approach" (M. Armand, LRCS; and M. Szafran and W. Wiczorek, Warsaw University of Technology, advisers).

An Honorable Mention in Electrochemical Science & Technology went to **Frederik Golks** (European Synchrotron Radiation Facility) for Paper #72, "In Situ Surface X-Ray

Diffraction Studies of Cl and PEG Adsorption and of Cu Electrodeposition on Low Index Cu Electrode Surfaces," (O. Magnussen, Universität Kiel and J. Zegenhagen, European Synchrotron Radiation Facility, advisers).

Chair **Venkat Subramanian** recognized his co-organizers **Gerri Botte**, **Kalpathy Sundaram**, and **Vimal Chaitanya Desai**; and thanked the many other judges who assisted: **Faisal Alamgir**, **Manthiram Arumugam**, **Scott Calabrese Barton**, **Kwong-Yu Chan**, **Peter Fedkiw**, **Doug Hansen**, **Paul Kohl**, **Oana Leonte**, **Ravi Methekar**, **Saibal Mitra**, **Yaw Obeng**, **Vijay Ramani**, **Daniel Scherson**, **John Stickney**, **E. Jennings Taylor**, **Enrico Traversa**, and **Cynthia York**. There is always a need to have more judges participate in the student poster session. If you have an interest in participating in this important student program, please contact ECS.

Lahore-Pakistan Student Chapter

The ECS Lahore-Pakistan Student Chapter organized a lecture by Peter Langer from the Department of Chemistry at the University of Rostock, Germany. The event was held on July 28, 2009, at the University of Engineering and Technology (UET) Lahore, Pakistan. Dr. Langer shared his experiences on the "Synthesis of carba- and heterocycles based on one-pot cyclizations of free and masked dianions." The speaker had volumes of experience and work in field, which will have direct bearing over the future research work. During his speech, Dr. Langer shared his professional acumen with the audience and satisfied the ambiguities of students during a knowledgeable question and answer session. He also encouraged students to compete for DAAD Fellowships.

At the end of the lecture, Prof. Inam-ul-Haque, thanked Dr. Langer for giving his valuable time and enlightening the students with his rich experience in the field of catalysis, medical chemistry, and natural materials. He also urged the students to browse through the research work of Dr. Langer and explore new avenues for future research work from viewpoints of electrochemistry. The possibilities regarding collaborative studies between the two research groups had also been discussed with special emphasis on electrochemical

studies of some anti-cancer drugs. Prof. Inam-ul-Haque also highlighted the work produced by his students at University of Engineering and Technology, Lahore. The event ended with a sumptuous tea and group photos.

Mohammad Ashraf Tahir, Director of Laboratories and Training Programs, and the DNA Technical Manager, for the Office of the Cuyahoga County Coroner (U.S.) made a short visit to Lahore, and delivered a lecture under the auspices of Lahore Student Chapter, on August 26, 2009, at UET Lahore. He gave a brief introduction to forensic sciences; its importance; the utilization of the latest analytical techniques, and especially on DNA sequencing and mass spectrometry in probing crucial criminal cases.

Prof. Inam-ul-Haque, faculty adviser, suggested that students seek out Dr. Ashraf for developing ideas related to bio-electrochemistry and drug determination.

*This write-up was provided by **WAJIHA AKRAM**, a member Lahore Pakistan Student Chapter and a doctoral candidate in the Department of Chemistry, UET, Lahore. Akram holds a research fellowship from HEC, Islamabad, Pakistan.*

Cochin University of Science and Technology Student Chapter



School children during the spectroscopy making (left) and attending the practical classes (right) during the **CUSAT CHAPTER'S** ten-day workshop for school children in collaboration with Department of Physics at CUSAT.

The Cochin University of Science and Technology (CUSAT) Student Chapter (Kerala, India) was officially inaugurated on February 28, 2009, which was National Science Day in honor of Sir C. V. Raman, by Prof. Louis Godfrey, HOD Department of Physics, CUSAT. Technical discussions were carried out by Prof. K. P. Vijayakumar on "Third Generation Solar Cells: Physics and Materials," and Dr. S. Jayalekshmi on excerpts from a "Chandrayaan Dream." Dr. M. K. Jayaraj, Chapter adviser, gave the vote of thanks.

The Chapter has been organizing monthly lectures on various topics on solid-state physics, electrochemistry, optoelectronics, and other advanced topics. Experts in the areas have been invited from various universities to deliver talk in their field of research.

The Chapter, in association with Department of Physics, Cochin University of Science and Technology, conducts academic training for postgraduate students of various institutions in Kerala. As a part of these, five students have completed their academic projects in the areas of electrochemistry, optoelectronic devices, non-linear optics, and nano materials.

The Chapter also organized a ten-day workshop for school children in collaboration with Department of Physics, CUSAT. The workshop was held on April 20, 2009. Dr. N. Chandramohanakumar (Registrar, Cochin University of Science and Technology), delivered the inaugural address. Prof. Godfrey Louis, HOD, Dept. of Physics, CUSAT, presided over the function, Prof. V. C. Kuriakose welcomed the gathering, and Dr. M. K. Jayaraj proposed a vote of thanks.

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The workshop was intended to provide the budding scientists with hands-on experience in various experiments. They also were given an opportunity to become familiar with the research programs of the Department of Physics. Classes were conducted by eminent teachers to improve their basic understanding of the subject.

The Department of Physics regularly contributes to the advancement of science and society by sharing their knowledge and expertise with the public. In order to provide

a platform for interaction, the Department organized an open house program to show its facility to the public as well as to the students and teachers of the state. Members of ECS CUSAT actively participated in the open house program.

This report was submitted by ARUN ARAVIND, Secretary for the CUSAT Student Chapter.

Grand Valley State University Student Chapter



The **GRAND VALLEY STATE UNIVERSITY STUDENT CHAPTER** held a student poster/presentation competition. Two students were awarded a paid conference registration to a national or local meeting. Pictured are **DEREK LOUTZENHISER** (left photo, in the white shirt), is explaining his project to other interested students; **RENEE BOULEY** (right photo), is giving an oral presentation during the same competition.

The Grand Valley State University Student Chapter of ECS had a very good first year. Helping us through our organizational progress were student chapter president Renee Bouley and Vice-President Benjamin Eggleston. We hosted a number of local speakers, including Dr. Nathan Barrows speaking on "Electrochemistry in the Classroom: Secondary Education Through University and Beyond," and Dr. Andrew Lantz speaking on "The Role of Electrochemistry in Electrophoresis," Dr. Cory DiCarlo, the Chapter's faculty adviser, also spoke about one of his research projects in a talk entitled, "Bioelectrochemical Generation of Oxygen from CO₂ on Mars."

Our student members have been active in disseminating their undergraduate research projects. A student poster and oral presentation contest was held in conjunction with a university-wide Student Scholarship Day. Two of our chapter members, Derek Loutzenhiser and Renee Bouley, tied for 1st place and were each awarded a paid conference fee to a national or local meeting. They chose to attend the 215th Meeting of ECS in San Francisco where they presented their research in the student poster division. Three members also attended the ACS Midwest Regional conference to present electrochemical research (Bouley, Loutzenhiser, and Benjamin Eggleston), and two members presented in Ann Arbor, MI (Bouley and Loutzenhiser) at a symposium sponsored by the Michigan Space Grant Consortium.

In terms of field trips, we have traveled to one location this term, in April 2008, to the ECS Chicago Section's half-day Electrochemistry Symposium. I and four student members

were able to travel and attend. All of the students remarked that it was a very enjoyable experience and that they felt that they benefited from the exposure both to the speakers and to the research facility in the tour that followed the symposium.

Two main areas of service were pursued by Chapter members during the past academic year. The first was to aid in the Chemistry Department's attempts at integrating a larger amount of electrochemical subject matter in the curriculum. With the help of students from the Chapter acting as lab guinea pigs, and assistance with materials from an in-house Pew Teaching and Technology Grant, a cyclic voltammetry laboratory session is nearing completion and will hopefully be added to the first semester analytical chemistry for lab experience this coming spring. Guinea pigs are actually part of the focus of the second service activity for the Chapter as members have also been helping out at a local small animal rescue, West Michigan Critter Haven (wmicritterhaven.weebly.com).

Our future goals are to continue to meet to informally discuss electrochemical topics at bimonthly meetings, to continue to host speakers during the academic year for members and the public, to attempt to recruit additional members to replace those who are graduating, and to grow the chapter.

This report was submitted by CORY DiCARLO, the Chapter's faculty adviser.

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call for nominations

For details on each award—including a list of requirements for award nominees, and in some cases, a downloadable application form—please go to the ECS website (www.electrochem.org) and click on the “Awards” link. Awards are grouped in the following sub-categories: Society Awards, ECS Division Awards, Student Awards, and ECS Section Awards. Please see the individual award call for information about where nomination materials should be sent; or contact ECS headquarters.

Visit
www.electrochem.org
and click on “Awards” link.

Start a Student Chapter!

ECS currently has 21 student chapters around the world, which provide students an opportunity to gain a greater understanding of electrochemical and solid-state science, to have a venue for meeting fellow students, and to receive recognition for their organized scholarly activities. Students interested in starting a student chapter may contact tim.fest@electrochem.org for details.



The **ECS SUMMER FELLOWSHIPS** were established in 1928 to assist students during the summer months in pursuit of work in the field of interest to ECS. The next fellowships will be presented in 2010.

Nominations and supporting documents should be sent to Vimal H. Desai, New Mexico State University, Office of the VP for Research, MSC 3RES - Box 30001, Las Cruces, NM 88033-8001, USA, e-mail: vimalc@nmsu.edu. **Materials are due by January 1, 2010.**



The **STUDENT RESEARCH AWARD OF THE BATTERY DIVISION** was established in 1962 to recognize promising young engineers and scientists in the field of electrochemical power sources and consists of a scroll, a prize of \$1,000, and membership in the Battery Division as long as a Society member. The next award will be presented at the ECS fall meeting in Las Vegas, Nevada, October 10-15, 2010.

Nominations and supporting documents should be sent to Robert Kostecki, Lawrence Berkeley National Laboratory, 1 Cyclotron Rd., MS 70R0108B, Berkeley, CA 94720-8168, USA; tel. 510.486.6002, e-mail: r_kostecki@lbl.gov. **Materials are due by March 15, 2010.**

The **STUDENT AWARD OF THE CANADIAN SECTION** was established in 1987 for a student pursuing, at a Canadian University, an advanced degree in any area of science or engineering in which electrochemistry is the central consideration, and consists of an amount determined by the Executive Committee of the Canadian Section not to exceed \$1,500.

The next award will be presented at an upcoming Section meeting. Nominations and supporting documents should be sent to Aicheng Chen, Lakehead University, Dept of Chemistry, 955 Oliver Rd, Thunder Bay, ON P7B-5E1, Canada; tel. 807.343.8318, e-mail: aicheng.chen@lakeheadu.ca. **Materials are due by February 28, 2010.**

Travel Grants

Several of the Society's Divisions offer travel assistance to students and young faculty members presenting papers at ECS meetings. For details about travel grants for 218th ECS Meeting in Las Vegas, Nevada, (October 10-15, 2010), please see the Las Vegas, Nevada Call for Papers in this issue; or visit the ECS website: www.electrochem.org/student/travelgrants.htm. Please be sure to e-mail the student travel grant contact as each Division requires different materials for approval. **The deadline for submission for the fall 2010 travel grants is May 7, 2010.**

Awarded Student Memberships Available

ECS Divisions are offering Awarded Student Memberships to qualified full-time students. To be eligible, students must be in their final two years of an undergraduate program or enrolled in a graduate program in science, engineering, or education (with a science or engineering degree). Postdoctoral students are not eligible. Awarded memberships are renewable for up to four years; applicants must reapply each year. Memberships include article pack access to the *Journal of The Electrochemical Society* online, *Electrochemical and Solid-State Letters* online, *ECS Transactions* online, and a subscription to *Interface*. To apply for an Awarded Student Membership, use the application form in these pages or refer to the ECS website at: www.electrochem.org/awards/student/student_awards.htm#a.