

## AWARDS

### 1998 Norman Hackerman Young Author Awards

The Society is pleased to announce the recipients of the Norman Hackerman Young Author Awards for 2000, for their excellent work that has appeared in the *Journal*.



**Alastair D. Robertson** received the Award for his paper "Morphology Modification and Delithiation Mechanisms of  $\text{LiMn}_2\text{O}_4$  and  $\text{Li}_2\text{MnO}_3$  by Acid Digestion," *J. Electrochem Soc.* **145**, 16 (1998).

He received a BSc(Hons) in Chemistry from the University of Aberdeen, U. K. in 1990 where he remained for his doctoral studies in solid-state inorganic chemistry under the supervision of Professor A. R. West, and graduated in 1993. During this time he developed his research interest in novel lithium ion conducting solid electrolytes for lithium batteries. After a postdoctoral position in Aberdeen studying both solid electrolytes and superconducting materials, Dr. Robertson moved to Covalent Associates Inc., (USA), in November 1995, to investigate admatal-modified  $\text{LiMn}_2\text{O}_4$  cathode materials in conjunction with Dr. W. F. Howard.

Subsequently, Dr. Robertson has returned to Scotland to his present position as a postdoctoral fellow working with Professor P. G. Bruce at the University of St. Andrews. He is currently developing layered  $\text{LiMnO}_2$ -type intercalation compounds for use as cathode materials in lithium-ion batteries.



**Yang Shao-Horn** received the Award for her paper "Morphology Modification and Delithiation Mechanisms of  $\text{LiMn}_2\text{O}_4$  and  $\text{Li}_2\text{MnO}_3$  by Acid Digestion," *J. Electrochem Soc.* **145**, 16 (1998).

She earned her PhD in Metallurgical and Materials Engineering from Michigan Technological University (MTU) in 1998. During her graduate study, her research interests primarily focused on correlating the structural features of lithium transition metal oxides with electrochemical performance for lithium batteries. Dr. Shao-Horn's research was conducted under the supervision of Professor Stephen A. Hackney of MTU and Dr. Michael M. Thackeray of Argonne National Laboratories. The paper, a result of graduate research efforts, was written in collaboration with Dr. Rick Howard (now at Kerr McGee Corporate Research Center at Covalent Associates, Inc.).

Currently, Dr. Shao-Horn holds the position of a research scientist at Eveready Battery Company, Inc., where she works on advanced battery materials, overseen by Dr. James R. Akridge (Senior Director of Technology).



**Sita R. Kaluri** received the Award for her paper "Nitrogen Incorporation in Thin Silicon Oxides in  $\text{N}_2\text{O}$  Plasma," *J. Electrochem Soc.* **145**, 662 (1998). This work was part

of her dissertation, titled "Plasma-Assisted Nitrogen Incorporation in Thin Gate Dielectrics" with Professor Dennis Hess in the Department of Chemical Engineering at Leigh University, Bethlehem, PA (1992-97). The research explored plasma oxynitridation of silicon and nitridation of silicon oxides in a helical resonator plasma. The effects of plasma parameters on nitrogen incorporation were studied by high resolution X-ray photoelectron spectroscopy, followed by an investigation into the effects of nitrogen on electrical properties of dielectrics. She published her research in major journals and conference proceedings. Sita earned her MD in Chemical Engineering from Polytechnic University, NY (1990-92) and a BA in Chemical Engineering from Osmania University, India (1990).

Sita is Senior Process Engineer with AlliedSignal's Advanced Microelectronic Materials Division, Sunnyvale, CA. She is developing materials and processes for integration of low-k dielectrics in multi-level interconnect stacks.

### Call for Nominations



#### Edward Goodrich Acheson Award

Nominations are solicited for the 2000 Edward Goodrich Acheson Award, to be presented at the 2000 Fall Meeting in Phoenix, Arizona. This award, established in 1928, recognizes a person who, in the judgment of the Directors of the Society, has made contributions to the advancement of any of the Society's objectives, purposes, or activities as to merit special notice. Such contributions may consist of, but are not limited to, a discovery pertaining to electrochemistry, electrometallurgy, or electrothermics; an invention of a plan, process, or device, or research evidenced by a paper embodying informa-

tion useful, valuable, or significant in the theory or practice of electrochemistry, electrometallurgy, or electrothermics; or distinguished service rendered to the Society.

This award, which consists of a gold medal, a wall plaque, and \$10,000. Please send nominations with supporting documents before March 1, 2000 to: James McBreen, Brookhaven National Laboratory, DAS, Bldg. 480, P.O. Box 5000, Upton, NY 11973-5000.



#### The Electrochemical Society Fellows

Nominations are now being accepted for the 2000 Class of Fellows of The Electrochemical Society. Selection as a Fellow is one of the highest honors bestowed on a

member of the Society, acknowledging that the recipient is distinguished by outstanding contributions to the advancement of science and technology in the areas of electrochemistry and/or solid-state sciences, leadership in the advancement of electrochemical or solid-state science and technology, and current active participation in the Society's affairs. All members are urged to give serious consideration to nominating possible candidates.

Those candidates selected as Fellows will be recognized by the awarding of a certificate and a lapel pin at the Society Honors and Awards Session at the 2000 Fall Meeting of the Society, announcement in *Interface*, listing as a Fellow when an author of a *Journal* or *Letters* article,

and notation on the identification badge at Society Meetings. Fellows are elected at a rate of up to 20 per year. Deadline for submission of candidates is January 15, 2000.

For more information or for nomination forms, please contact: ECS Headquarters or Dr. Barry R. MacDougall, National Research Council, Inst. for Environmental Chemistry, Ottawa, ON, Canada K1A 0R6, tel: 613.993.8573, fax: 613.941.2529, e-mail: barry.macdougall@nrc.ca.



### **Solid-State Science and Technology Award**

One of the Society's most prestigious Awards, the Solid-State Science and Technology Award, honors an individual who has made distinguished contributions to the field of solid-state science and technology.

This Award, consisting of a silver medal, a wall plaque, and \$7,500, will next be presented at the Spring 2001 Meeting in Washington, DC, at which the winner must deliver an address to the Society on a subject related to the contributions for which the Award is presented.

As this is one of the Society's highest honors, we urge all members to give serious consideration to possible candidates. To suggest or nominate a candidate, please contact the chairman of the award subcommittee: Janet L. Benton, Bell Labs - Lucent Technologies, Rm. 1E430, P. O. Box 636, New Providence, NJ 07974-0636, tel: 908.582.3643; fax: 908.582.4228; e-mail: jlb@bell-labs.com. Nomination forms are also available from Society Headquarters. If more information is needed for consideration, the nominator will be contacted. Please submit all nominations by March 1, 2000 to facilitate consideration by the committee. Nominations close at the beginning of the Spring 2000 Meeting of the Society.



### **H. H. Uhlig Award of the Corrosion Division**

The H. H. Uhlig Award of the Corrosion Division, previously known as the Outstanding Achievement Award, was established by the Society's Corrosion Division to recognize excellence in corrosion research and outstanding technical contributions to the field of corrosion science. The 2001 award will be presented at the Fall Society Meeting in San Francisco, California, USA.

The recipient of this award will receive a scroll and \$1,500 and will be required to attend the Society Meeting at which

the award is given and to present an award lecture to the Corrosion Division. If necessary, financial assistance for travel expenses to the Meeting will also be made.

All nominations must be accompanied by supporting documents, such as a biography, list of publications, professional activities, and a brief summary of the outstanding contributions on which the Award is to be based. Five (5) copies of each nomination with supporting documents should be submitted to the award committee chairman: Hugh Isaacs, Brookhaven National Laboratory, DAS, Bldg 480, P.O. Box 5000, Upton, NY 11973-5000, phone: 516.344.4516, fax: 516.344.4071. The deadline for receipt of nominations is March 1, 2000.



### **High Temperature Materials Outstanding Achievement Award**

Nominations are now being accepted for the year 2000 Outstanding Achievement Award of the High Temperature Materials Division. This award, presented biannually, recognizes excellence in high

temperature materials and research and outstanding technical contributions in the field of high temperature materials science.

The award consists of a scroll and a \$1,000 and will be presented at the Fall 2000 meeting of the Society where the recipient will present a key-note talk at an HTM-sponsored symposium on a subject related to the work for which the award is presented.

The nomination must include a letter of nomination, curriculum vitae, and at least four supporting letters of recommendation. The nomination letter must describe the research accomplishments of the nominee, including the nature of their research and the lasting impact of their contributions upon the field of high temperature materials science. Supporting documents should include a list of publications, patents, and activities. The selection of the award recipient will be conducted by the High Temperature Materials Division Awards Committee.

All supporting documents must be mailed to the Junior Vice-Chair of the High Temperature Materials Division,

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Dr. Steven L. Russek, Air Products & Chemicals, Inc., 7201 Hamilton Boulevard, Allentown, PA 18195-1501. For information concerning this award please contact Dr. Russek by tel: 610.481.2393; fax: 610.481.4566; e-mail: russeksl@apci.com.



### Sensor Division Outstanding Achievement Award

Nominations are now being accepted for the Outstanding Achievement award of the Sensor Division of The Electrochemical Society, given to recognize outstanding achievement in the science and/or technology of sensors and to encourage excellence of work in the field. This award, which was presented for the first time at the Fall 1994 Society

Meeting, consists of a scroll and \$1,000. It shall be presented at the Sensor Division Meeting in Fall 2000 in Phoenix, AZ.

Nominations for the Award and a description of the achievements should be sent to: J. R. Stetter, IIT, Department of Chemistry, 3101 South Dearborn Street, Chicago, IL 60616, tel: 312.567.6811; fax: 312.567.3494; e-mail: joseph.stetter@iit.edu, before January 1, 2000.



### Physical Electrochemistry David C. Grahame Award

Nominations are now being accepted for the 2001 David C. Grahame Award of the Society's Physical Electrochemistry Division.

This Award recognizes Active Members of the Society who have made outstanding contributions to the field of physical electrochemistry and who have enhanced the scientific stature of the Society by the presentation of well-recognized papers in the *Journal* and at Society Meetings.

The recipient will receive a certificate, a stipend of \$1,500, and, if required, financial assistance toward travel expenses to the Society Meeting at which the award is presented. The winner of this award will be required to attend the Meeting and to present an award lecture in one of the sessions or symposia sponsored by the Physical Electrochemistry Division.

To be eligible for the award, applicants must be Active Members of the Society who have published at least two papers in the *Journal* and have attended a Society Meeting within the past five years.

To be considered, nominations must be accompanied by supporting documents, such as a biography, list of publications, professional activities, and a brief summary of the recent outstanding contributions on which the award is based. Letters of support by scientists well recognized in the area of physical electrochemistry will also be considered. Six copies of each nomination should be submitted to the award committee chairman: Barry Miller, Department of Chemistry, Case Western Reserve University, 10900 Euclid Ave., Cleveland, OH 44106-7078. Deadline for receipt of nominations is December 31, 1999. ■