

# Candidates for Society Office

The following are biographical sketches and candidacy statements of the nominated candidates for the annual election of officers for the Society. Ballots will be mailed, in January 2003, to all Voting Members of the Society. Offices not affected by this election are those of the other Vice-Presidents—Robin Susko and William Smyrl; the Secretary—Paul Natishan; and of the Treasurer—Peter Fedkiw.

## Candidate for President



**BRUNO SCROSATI** received his degree in chemistry in 1966, and in 1969, his doctoral degree in electrochemistry, both from the University of Rome. From 1964 to 1966, he was a research associate

in the Department of Chemistry at the University of Illinois. In 1970 and 1971, he was a Summer Visiting Scientist at Bell Telephone Laboratories in Murray Hill, NJ. Since 1980 he has been a full professor of Electrochemistry at the University of Rome. In the fall of 1990, he was the George T. Piercy Distinguished visiting professor in the Department of Chemical Engineering and Materials Science at the University of Minnesota. In the fall of 1991, he was a Visiting Professor in the Department of Chemical Engineering and Materials Science at the University of Pennsylvania. In 1996, he received the title of Doctor in Science, "honoris causa," Hon. Dsc., from the University of St. Andrews in Scotland.

For the term 1988-1991, he was vice-president and president of the International Society of Solid-State Ionics; in 1996-1998, president of the Italian Chemical Society; and since 1989, a member of the Italian Commission of the International Union of Pure and Applied Chemistry (IUPAC). He was elected in 2000 as a vice-president of The Electrochemical Society. In 1997, he received the Research Award of the ECS Battery Division. He is a member (2000-2002) of the Faraday Division of the Council of the Royal Society of Chemistry.

Dr. Scrosati is currently the European editor of the *Journal of Power Sources*; and is a member of the editorial boards of various international journals, which include *Solid State Ionics*, *Journal of Applied Electrochemistry*, *Progress in Solid State Chemistry*, *Ionics*, *The Chemical Records*, and *La Chimica e l'Industria*.

Dr. Scrosati is listed among the ten thousand most cited chemists in the world. He is author of more than 330 scientific publications, 9 books, 10 chapters in books, and 16 patents. ■

## Candidates for Vice-President



**MARK ALLENDORF** is a Distinguished Member of the Technical Staff at Sandia National Laboratories in Livermore, CA, and a Fellow of The Electrochemical Society. He graduated in 1980 with an

AB in chemistry (magna cum laude, Phi Beta Kappa) from Washington University in St. Louis and received his PhD in inorganic chemistry from Stanford University in 1986. In his research he uses both experimental and computational methods to develop models for simulating high-temperature industrial processes at interfaces. His principal expertise is in the chemistry of chemical vapor deposition processes (CVD) and he is currently working to understand the deposition of transparent conducting oxides on glass. His interests extend to a wide range of other materials, including boron nitride, silicon carbide, and titanium compounds. Through the use of ab initio quantum-chemistry techniques, he developed an extensive on-line database of thermochemistry relevant to high-temperature processes. Other recent activities in his laboratory include: thermochemical and transport modeling of high-temperature refractory corrosion; mechanistic studies of heterogeneous catalysis processes used to make ethylene and synthesis gas; and development of models to predict the performance of metal-insulator-semiconductor sensors in complex gas mixtures.

Dr. Allendorf's activities with ECS include service as secretary/treasurer, junior vice-chairman, senior vice-chairman, and chairman of the High Temperature Materials Division (1994-99; ex officio member of the ECS Board of Directors 1997-99); and member of the Publications (1992-95), Technical Affairs (1994-97), Finance (1999-01), and (currently) Ways and Means Committees. He served as an organizer for several major ECS symposia and currently chairs the organizing committee for the International Symposium on Chemical Vapor Deposition. In addition, he is a member of the editorial board for the journal *Advanced Materials/CVD*. Dr. Allendorf is the author of over eighty publications, the editor of five ECS proceedings volumes, and has presented work at nearly



**WILLIAM BROWN** holds the rank of University Professor and has served as Associate Dean for Research in the College of Engineering at the University of Arkansas, Fayetteville, since 1998.

He served as head of the Electrical Engineering Department from 1983 to 1998. Dr. Brown established the High Density Electronics Center (HIDEC), a world-class electronics packaging center, in 1991, and serves as its director. Dr. Brown has received honors for both his teaching and research. His research has resulted in more than 250 scientific papers and 280 conference presentations. In addition, Dr. Brown has co-authored 14 textbooks and manuals. He holds 7 U.S. patents with 5 others pending. Dr. Brown received the Thomas D. Callinan Award from the Dielectric Science and Technology Division in 1996 and was elected to Fellow status by the Society in 2002.

From 1969 to 1977, Dr. Brown was a Member of the Technical Staff at Sandia National Laboratories in Albuquerque, New Mexico, where he designed electronic test equipment, developed semiconductor device fabrication technologies, and studied the effects of defects and ionizing radiation on semiconductor devices. Since joining the University of Arkansas in 1977, his research interests have included microelectronic fabrication technology, semiconductor device physics and reliability, material synthesis and characterization, and materials applications. He received his BS from the University of Arkansas in 1969, his MS from Pennsylvania State University in 1970, and his PhD from the University of New Mexico in 1975, all in electrical engineering.

Dr. Brown has served The Electrochemical Society as treasurer (1998-2002) and the Dielectric Science and Technology Division as secretary, vice-chairman, and chairman. As a Society member, he has co-organized 25 symposia, including the well-regarded Silicon Nitride and Silicon Dioxide Thin Insulating Films, Low Temperature Electronics and High Temperature Superconductivity, Diamond Materials, and the III-V Nitride series. He has contributed a substantial number of

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## Allendorf

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one hundred technical conferences. He is the recipient of a Sandia Award for Leadership and the E. Karl Bastress Award (given to outstanding research staff at Sandia's Combustion Research Facility) for coupling fundamental research to the needs of industry.

### Candidate's Statement

*For one hundred years The Electrochemical Society has served its members and the broader scientific community by providing a home for electrochemistry and solid-state science. The objectives of its founders are just as valid today as they were then: high-quality meetings, influential publications, support for education, and an organizational structure that is about and for its members. It is also a dynamic organization, with expanding international connections, innovative electronic publishing, and strong support for the latest scientific and engineering ideas.*

*To better serve our members and to grow in both impact and membership, we must build on the first century's accomplishments. Already, a plan exists to realize the vision for the future articulated by our members in a recent survey.*

## Brown

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papers to the Society's *Journal*, *Letters*, and proceedings volumes.

Dr. Brown has served on the Education Committee (1993-1998) and as its chairman from 1994 to 1998. During this time, he was instrumental in the initiation of the highly successful Student Poster Session held at each ECS meeting. With his guidance and diligence, the Student Poster Session and the Society's Short Course programs were significantly improved and expanded in size and popularity. Brown also served as Finance Committee chairman (1998-2002), on the Society Meeting Committee (1998-2002), on the Honors and Awards Subcommittee for the Henry B. Linford Award (1994-1997), and on the Ad Hoc Gift Acceptance Committee (2001-2002). He has been on the Financial Policy Advisory Committee since 1998. While serving as treasurer of the Society, he was an ardent supporter of the Society's efforts to enhance our publications, augment the Society's international liaisons and activities, and establish an Office of Development because of the potential that such activities hold for the future of the Society. As a member of the Executive Committee, he was one of the first Society members to pledge financial support to the Society's development activities.

### Candidacy Statement

*As a candidate for vice-president of The Electrochemical Society, I believe my primary responsibility, if elected, will be to insure that the Society continues doing what it does best—disseminating the knowledge resulting from outstanding work by our members—and insuring that new programs, once approved by the Society*

*Among its key objectives are: to increase educational and training opportunities for our members; develop rapid and interactive journals; and understand and respond to the ever-changing needs of our meeting constituency. To provide the financial resources needed to achieve this vision, the Centennial Campaign has the ambitious goal to raise \$6.5 million over five years.*

*I strongly support the goals of this plan and if elected will be active in the campaign to raise the required funds. In activities outside my professional life I have gained extensive experience in capital fund raising activities and will use this knowledge to accelerate progress toward the goal of the Centennial Campaign. Success will depend not only on the full participation of our membership, but with the involvement and support of friends in industry that will reap the benefits of a strengthened and growing ECS.*

*Beyond these goals, however, I believe there are additional areas where leadership is needed to improve the effectiveness of our society. First, more must be done to assist members involved in the all-important task of symposium organization. Successful symposia require tremendous investments of time. Already ECS does more than many other comparable professional organizations by providing basic financial support, thereby minimizing the need to seek outside*

*membership, move forward in a timely manner. Key to this is the success of the Society itself, which can, in part, be quantified as increasing membership and member benefits, offering excellent leading-edge technical symposia and relevant short courses, and continuing to publish the internationally respected *Journal*, *Letters*, *Interface*, and symposia proceedings. I believe I can be an advocate and catalyst in these key areas by working with the membership, through the Society's committee structure, Board of Directors, and Executive Committee, on management and organizational decisions that will enhance the Society's professional status and technical excellence. The recently established Office of Development will provide a strong source of support as the Society works to increase member benefits while maintaining reasonable annual dues and meeting registration fees, enhance its international image, promote student participation in meetings and operations, increase the quantity and stipend of its fellowship and scholarships, develop a closer relationship with industry, and electronically archive its many publications, while continuing to improve all other activities in which it has traditionally been involved. In order to achieve these objectives, it is extremely important to promote the ECS brand internationally.*

*In addition to the traditional member recruiting methods, I believe that the Society should continue to develop programs that capture the imagination and interests of high school and college students—the future generations of scientists and engineers. Such programs should define electrochemistry and solid-state science, encourage them to consider careers in these two rather broad technical categories, and introduce ECS, its role and unique attributes as a professional society. More proactive programs, directed at bringing potential members to Society meetings, need to be explored. Finally, sincere efforts must be made to immediately involve new*

*sources of funding. More must be done, however. Streamlined processes for publishing proceedings volumes and web-based tools for submission of manuscripts, for example, could substantially reduce the amount of time required of symposium organizers. Second, participation in Society-wide committees must become easier. Constraints on time available for such activities and limited travel budgets mean that fewer people can attend both semiannual meetings, particularly if they are not presenting a paper at one of them. Expanded use of conference calls and video conferencing would increase the number of participants at committee meetings and enable members to more effectively discharge their duties. Finally, we must enhance our website to make it more engaging to nonmembers and a greater resource for the current membership. Outside of our meetings, this is perhaps our most important public face and we must ensure that it is of the highest possible quality.*

*ECS has a bright future in front of it, which I believe is ensured by the dedication and commitment of our members, the relevance of our science and technology, and the excellence of our headquarters staff. I am honored to be considered for a leadership role in this great organization and will work hard to make our vision a reality.* ■

*members in Society activities at both the local and national levels so that they will quickly develop a love for and a commitment to the Society and its future successes.*

*The Society has been and continues to be very dynamic because it is receptive to fresh interpretations of its mission and the methods used to achieve its objectives. ECS is, in fact, a mover and a shaker in the professional society arena. This is evidenced by the fact that the Society was one of the first professional societies to offer online meeting registration, was the first society to do 'article at a time' publication, and is one of the first societies to employ a full-time development officer. ECS must continue to explore new ideas, and this can best be done by having the Society officers actively solicit input from the membership and then be willing to implement changes consistent with the Society's objectives in a forward-looking, fiscally responsible manner. Sometimes there is financial risk involved in innovation, but occasionally such risk must be taken if the Society is to grow and prosper.*

*I believe that The Electrochemical Society is strong, growing in membership, and fiscally healthy at the present time because of a long history of having qualified and dedicated leaders and an outstanding headquarters staff. During the period 1998-2002, I had the privilege of serving the Society as treasurer, a position from which I was able to observe and participate in the operation of the Board of Directors and the Executive Committee. As a result of serving in this position, I feel qualified to serve as Vice-President of the Society. I believe that challenging times lie ahead for the Society, but with the help and feedback of the membership, ECS can further improve on the successes that have made it a respected organization while responding to future needs. These will be exciting times to be involved with ECS. I would consider it a great honor to be elected by the membership to help guide the Society as Vice-President.* ■