

AES NEWSLETTER

See you Soon in San Francisco at the
Annual Meeting! Nov. 15-21, 2003

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Many thanks to our Sponsors for contributions funding the 2003 meeting.

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California Separation Society

Our traditionally strong meetings, with sessions chaired by invited plenary speakers discussing state-of-the-art topics, would simply not be possible without funding from sponsors. These donations are greatly appreciated.



The San Francisco Hilton is the site of the 2003 annual meeting of the American Electrophoresis Society, in conjunction with the much larger meeting of the American Institute of Chemical Engineers (AIChE). The 1900 rooms of the Hilton occupy three buildings and 46 floors. Our three days of sessions will be held in Union 22 and 19/20. The Sunday Workshops will be in Union 21.

Final Run-through:

It is almost time for our annual meeting. As you know by now, the meeting is once again being held as a "Topical Conference" during the annual gathering of the American Institute of Chemical Engineers, giving us the benefits associated with a large meet-

ing. Meeting headquarters is the San Francisco Hilton, a luxury hotel on the edge of downtown. The weather promises to be good and the technical sessions are excellent, including topics of BioInformatics (both for metabolism and complex systems), New Proteomics Applications and Techniques, Emerging Technologies in-

cluding nanofluidics, and Industrial Applications including microfabricated systems. Our poster reception will be held Monday evening from 7-9 with wine and appetizers to savor while chatting with the presenters. Drink tickets will be provided to AES members, cash bar for others.

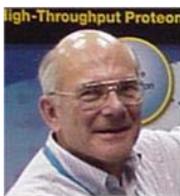
You will not want to miss this meeting, so, if you haven't done so already, be sure to register on-line at the AES web site (www.aesociety.org). Registrations will also be accepted on site.

Three Sunday Workshops: In addition to a full spectrum of topics covering the gamut of fields in electrophoresis from the established to the new, a one-day session of 3 short courses will be held on Sunday, November 16, preceding the official start of the technical sessions. These short courses are designed to provide you with up-to-date information on techniques and applications about two-dimensional polyacrylamide gel electrophoresis. The faculty of distinguished instructors from academia and industry will guide you through the fundamentals and new developments in this essential method. You will learn firsthand the tricks of the trade including new developments, sample preparation, the running and analysis of 2-D gels, and software analysis of 2D gel patterns. See the back side of the program grid for more details.

There is not enough room here to do justice to the wealth of topics to be covered in the technical sessions, so we encourage you to check out the overview on the enclosed program grid as well as details on the web site.

The society banquet is being held at The Empress of China restaurant in San Francisco, an old and honored establishment featuring the best in Chinese cuisine. The banquet speaker will regale us with stories and anecdotes about the history of Alcatraz prison. A post meeting excursion to the famous California wine country is in the planning stages (see page 4). If there is enough interest, we will visit several wineries.

The 2003 Annual Meeting of AES is one you will not want to miss. See you there!



Dave Garfin



Neil Ivory

Conference Co-Chairs for 2003

Selected Preview of AIChE Program

In addition to the full AES program, several AIChE sessions may be of more than usual interest to AES members. **The 55th Institute Lecture (Wed., 11 a.m., Continental Ballrooms 4-6)** will be presented by George Stephanopoulos of MIT, entitled, "Invention and Innovation in a Product Centered Industry: General Trends and a Case Study." Prof. Stephanopoulos has recently completed a two-year odyssey as Chief Technology Officer of Mitsubishi Chemical Co. in Japan.

Stephanopoulos implemented several tangible and cultural changes during his tenure. Most important, he says, was to "link technology to business"--that is, to make researchers consider the market applications of what they do. Traditionally, corporate scientists in Japan have performed academic-type research. "From the very beginning, I talked about the business model," he recalls. "We will not do any research without the concept of a business model."

His second initiative, based on a more complicated but almost equally important concept, was to build a "seamless innovation process in R&D"--an organization "where you can innovate, in a continuous and natural way." The aim is to repeatedly come up with highly differentiated products based on unique technology platforms.

Examination of the scientific sessions shows that 'biology,' 'bioinformatics' and 'genomics' are on the radar of an increasing number of chemical engineers. For example, on Wed. afternoon (**Hilton Yosemite B**) there will be two sessions entitled, "Advances in Biotechnology and Genomics" that deal with topics such as gene expression, DNA microarray design and use, and metabolic and neural networks. Interestingly, some of these would be called basic research and others show an applied direction, highlighting a sub theme of Prof. Stephanopoulos' talk, the recent, gradual changeover in chemical engineering from process to product emphasis.

Also interestingly, there appears to be something of a two-way street at work: it isn't just engineers coming to biology. For example, spotted among the speakers are Stanley Cohen of Stanford, one of the seminal developers of recombinant DNA technology and, in one of our sessions, Eric Davidson of Caltech, who has pioneered studying the evolution of regulatory networks.

Other bio-oriented sessions abound. Examples are "Combinatorial Approaches and Directed Evolution in Bioengineering" (**Thurs. p.m., Hilton Ballroom 3**), "Advances in Protein Expression and Post-Translational Modification" (**Fri. a.m., Yosemite B**), "Computational Genomics and Proteomics" (**Mon. p.m., Hilton Franciscan A**) and, literally, quite a fair number of others.



-Larry Grossman

Results of Councilor Elections

Two Councilor positions were open and two members volunteered to run, so voting is unnecessary. We are once again lucky that our applicants are of the highest caliber. Welcome to our 2 new councilors, whose statements are below, and who will be formally approved at the November meeting.

Dr. L. Scott Rodkey, Professor of Pathology University of Texas-Houston Medical School

My research has included electrophoresis as a central theme since graduate school. Of my 77 publications, 29 directly involve electrophoresis as a major or sole component of the work. Further, I have five US patents and one Swedish patent for electrophoresis technologies. My current NIH grant support is for a basic research project in electrophoresis technology. In partnership with the University of Texas, I established a company to commercialize technology developed in my laboratory. As an AES Councilor, I will use my experience in both academia and in technology development and transfer to further the goals of the Society. These goals will be served best by combining the best minds in academia with the best in the biotechnology industry to foster communication within these disciplines for their mutual benefit. The AES should maintain and expand its participation in ICES to better serve the needs of all members. With the expansion of applications for electrophoresis technologies coming from the Proteomics initiatives underway now, efficient international communication of separations applications will be crucially important for all in academia and industry. The AES Council should work for continual improvement of content in ELECTROPHORESIS by recruiting high quality reviewers and soliciting high quality papers from members and non-members alike. Continued and expanded efforts to actively engage both new and established biotechnology companies for support of AES activities that can benefit all should be pursued by the Council. I support expanding the AES newsletter and website to help serve the increasingly diverse needs of our members and would solicit member input into the effort. Additional efforts to increase our member base should be part of the Council agenda

As a Councilor, I will pledge to vote on issues for the best interests of all constituents of the Society and will actively seek input from the very best minds whenever I feel that specific issues coming to Council would benefit from outside guidance and input.

Dr Scott Rodkey, New Councilor



Dr. Robert Stevenson, Abacus Group, San Francisco

My overall concern is that the AES become a more effective forum for promoting development of electrophoretic science and technology. I believe that a vigorous AES (in some form) will foster interest and continued innovation in the technology. Lack of such a forum will result in a quick decline of the field. If elected, I anticipate that my goals would be:

- ◆ Develop an analysis of the future scenarios for the AES by 5-1-04. This includes affiliation with the AICHE, ACS, CaSSS, etc. or complete independence.
- ◆ With the rest of the Board of Directors, select an option and create a plan draft by 10-1-04.
- ◆ Present the plan to the membership for comments and approval by 12-1-04.
- ◆ Assist in implementing the plan for the remainder of the term, as required in the plan.

QUALIFICATIONS:

Robert Stevenson, Ph.D., Managing Director of ABACUS GROUP, has over thirty years experience building business with firms such as UOP, Asahi Chemical, 3M, MICRA Scientific, Bio-Rad, Varian Associates, Altex Scientific, and TosoHass. He is founder of Abacus Group which is a consulting practice with 13 years of demonstrated expertise in solving problems in distribution, business planning and product/market evaluation.

Dr. Stevenson is also Editor of Separation Science for International Scientific Communications, Inc., publisher of American Laboratory, American Clinical Laboratory, American Biotechnology Laboratory and Genomics/Proteomics Technology. He has authored over 400 publications during the past 15 years. Dr. Stevenson originated the editorial column "The World of Separation Science," which reports on the latest developments in chromatography, electrophoresis and related technology. The series features a strong focus on new instruments and applications.

Recently he has co-authored two books: "Capillary Electrochromatography and Pressurized Flow Capillary Electrochromatography, An Introduction" and "Marketing to the European Laboratory, A guide to Doing Business in Europe"

Dr. Stevenson is or has served as a member of various boards including LC Resources, IO Informatics, Inc. Michrom Bioresearch, Cell Robotics, Inc. the subdivision on Separation Science of the ACS plus the California Separation Science Society (CaSSS), where he has been Vice President, Treasurer for the past 10 years.

Dr. Stevenson received his Ph.D. in Analytical Chemistry from the University of Arizona in 1966, and his B.A. in Chemistry from Reed College in 1963.



Dr Robert Stevenson, New Councilor

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ELECTROPHORESIS
PAST, PRESENT
AND FUTURE

Current Slate of Officers for 2004

President: Nancy Kendrick, Kendrick Labs Inc (11/02 - 11/04)
Past President: Frank Witzman, Indiana Univ. Sch. Medicine (11/02 - 11-04)
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Secretary: Jasmine Gray, Amersham Biosciences (11/02 - 11/05)
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Councilor: Nancy Stellwagen, University of Iowa (11/02 - 11/05)
Councilor: Scott Rodkey, University Texas-Houston Medical School (11/03 - 11/06)
Councilor: Robert Stevenson, Abacus Group (11/03 - 11/06)
Councilor and Webmaster: Erich Gombocz, (11/01 - 11/04)

Proposal Especially prepared For American Electrophoresis Society Sonoma Valley Wine Tour, November 20, 2003



Just an hour north of San Francisco, Chateau St. Jean represents the best of Sonoma wine country. We invite you to discover experience, taste and savor the many pleasures of our unique region by making Chateau St. Jean your wine country destination. . . As you wind your way through the **gardens** your path will lead you to our **Visitors Center**. Once inside, your taste buds will delight in the wine country treasures from superb Sonoma County wines and gifts in the Retail Room to delicious gourmet foods at the Charcuterie. Across the courtyard, sits the **Chateau** that houses our Vineyard Room for those who would like to sample reserve wines. A beautiful patio provides the perfect vista for wine tasting .

Nestled against the Mayacamas Mountains in a group of redwood buildings dating from the early 1900s, is Kenwood Winery, founded in 1970. The owners have instituted the French style of fermenting small batches of wine individually. Here amidst the trees you can taste the results of their labor as you gaze across the Sonoma Valley.

Founded by Hungarian wine pioneer Count Agoston Haraszthy in 1857 in the scenic Sonoma Valley, Buena Vista Winery is California's first premium winery. We invite you to visit our Historic Tasting Room, at the original winery site in Sonoma. Stroll down a beautiful wooded path to the ivy-covered stone Press House Tasting Room, built in 1857. Our Tasting Room offers a wide selection of award-winning wines, tours, a gift shop featuring the Haraszthy Collection of gourmet food items, a beautiful picnic area and an artist gallery.

It's not science but sounds like great fun. The complete wine country tour of three wineries, including the bus ride from the Hilton and a picnic lunch, would cost \$120 per person for the entire day, assuming 20 people sign up. Unfortunately you would have to miss the Thursday morning session. Please contact Joan Stevenson to make a reservation.

Useful Web Sites:

If you haven't yet tried these excellent web sites for searching research literature and grants, check them out!

Highwire Advanced Literature Search site: <http://highwire.stanford.edu/cgi/search/>
NIH Grant Search site "CRISP": http://crisp.cit.nih.gov/crisp/crisp_query.generate_screen

Technical Tip:

Be careful what you feed your pumpkin ...

