



AES Newsletter

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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.

We also thank NIH for travel grant support for 2005.

The American Electrophoresis Society
Promoting scientific advancement in electrophoretic theory and applications

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Application Focus

| | |
|---------------------------|--------------------------------|
| 1-D Gel Electrophoresis | Isotachopheresis |
| 2-D Gel Electrophoresis | Mass Spectrometry |
| Bioinformatics | Microchannel Electrophoresis |
| Dielectrophoresis | Microfluidic Chips |
| Electrokinetics | Polynucleotide Electrophoresis |
| Ferguson Plot Analysis | Protein Arrays |
| Free Flow Electrophoresis | Pulse Field (PFGE) |
| HPCE | |

Recent News

UPCOMING MEETING

2006 Annual Meeting
San Francisco Hilton
San Francisco, CA
November 12-16, 2006
[Meeting Registration](#)

Held jointly with the American Institute of Chemical Engineers

October, 2005
(Volume 10, Issue 4)
[more...](#)

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A New Year, A New Look - Our Improved AES Website Is Up and Running!

Report from Erich Gombocz and Rob Minerick

It's done, and it looks great! After listening to all of you and reviewing how best to meet the needs of both members and visitors, the council decided to set up a web site committee to give our "door to the world" a new look and, most importantly, a new set of functions. We wanted to provide online membership applications and renewals, a more organized and easier to navigate framework, and a forum for discussions. Members of the AES Council are now able to quickly update content without needing to delve in to the gory details of web programming. This will ensure that our site remains up-to-date. After nearly 5 years, it was time to make this happen. As a volunteer responsible for the web site over the past five years, I was very excited that the society appointed Rob Minerick of Vortimac Software (<http://www.vortimac.com/>) to design and

Message from the President: AES and AIChE - a Good Match

Electrophoresis is often considered to be the domain solely of biologists. The major techniques were developed to solve biological problems and are mainly the work of biochemists and molecular biologists. Nevertheless, there has been a smattering of interest in electrophoresis from the outset by scientists and engineers in a variety of fields. Thus, polymer scientists study the motions of charged molecules through gels and chemists and engineers develop new and exotic formats for research, diagnostics, and production applications. Perhaps no group has embraced electrophoresis more thoroughly than the chemical engineers. Chemical engineers specialize in fractionating molecules of all kinds and recognize the value of electrophoretic methods as scalable, high-resolution separations techniques for biopolymers. They may very well be the most active group working on the development of new electrophoresis devices as well as improving the more conventional apparatus.

So it was that a few years ago the American Electrophoresis Society (AES; www.aesociety.org) and the American Institute of Chemical Engineers (AIChE; www.aiche.org) decided that mutual interest justified merging the annual meetings of the two societies. Since AIChE, the much larger of the two, holds a well-organized technical meeting every year, it was logical to hold the AES meetings as Topical Sessions within the AIChE meeting. The first such joint meeting took place in 2001 and was considered a success. Four other combined meetings followed and the fifth was held in November 2005 in Cincinnati, Ohio. See page 4 for information on our upcoming 2006 meeting.

The collaboration between AES and AIChE has been synergistic. AES provides a biological component to the AIChE meetings while AIChE provides AES with a place to hold our meetings and with a group of attendees we might not ordinarily get. More importantly, the affiliation with AIChE serves to maintain the AES focus on electrophoresis as a general separations technology. While other worldwide electrophoresis societies converted themselves into proteomics societies, we resisted that siren call. Our goal remains as always to cover all aspects of electrophoresis, but to be flexible enough to embrace current hot topics as they emerge. From a generalist's point of view, our annual meetings are the equal of (or better than) other, more highly touted single-topic conferences. AES meetings cover the gamut, including proteomics, genomics, bioinformatics, microfluidics, detection methods, and electrokinetics. Our speakers are drawn from both the biology and chemical engineering communities, with some representation from chemistry and various engineering disciplines as well. My sense is that the affiliation of AES and AIChE has been good for both societies and for electrophoresis.

Dave Garfin
AES President



2005 Meeting Moments

A detailed review of the 2005 meeting will be published in the journal *Expert Review of Proteomics* (see the next page for the website and details). The following photos were taken at the AES banquet at the Bella restaurant.



Ray Grant introduces our banquet speaker, Ed Ryder, historian for Proctor and Gamble, who traced their product history.



Scott Rodkey, Bob Stevenson, John Wiktorowicz and Ruth Vanbogelen enjoy the talk.



Pedro Arce and Alfred Gaertner say adios as councilors.

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Electrophoresis
Past, Present, and Future

Newsletter subscriptions are complimentary with AES membership. For more information or to join AES contact Matt Hoelter (see above). To submit articles contact Nancy Kendrick.

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Welcome to the American Electrophoresis Society from the Future Science Group!

We are very pleased to offer all subscribers to AES a special subscription rate of \$99 to *Expert Review of Proteomics*! This is a substantial saving, with an individual subscription usually \$650!

Many obstacles face the R&D community in determining protein structure, function and expression, including problems of protein isolation and identification, structure determination, protein-protein interactions and, significantly, post-ribosomal modifications. *Expert Review of Proteomics* provides a structured forum for debate on the technologies, methods and discoveries from the field of proteomics that promise to advance scientific understanding of the many varied roles protein expression plays in health and disease.

The Expert Review of Proteomics delivers a critical mass of key information from international authorities, with each article subject to rigorous peer review. It is specially structured to maximize value to the reader with Expert Commentary, Five-year View, and Key Issues sections, together with annotated references.

With the aid of our advisory panels, we identify the best authors and hot topics, and deliver highly structured, concise and clearly presented reviews. For more information on *Expert Review of Proteomics* please go to www.future-drugs.com/loi/epr.

To register for your special subscription rate, email info@future-drugs.co.uk and quote ref; AES\$99.

A review of our 2005 meeting by David Garfin is in *Expert Rev. Proteomics* 3, 9-19 (2006).

American Electrophoresis Society 2006 Meeting Update:

Planning for the 2006 Annual AES Meeting, scheduled for November 12-16, 2006 at the downtown Hilton in San Francisco, is well underway! The three main themes of the meeting are Proteomics, BioMEMS, and Electrokinetics. The first is an outstanding sequence of sessions focusing on proteomics and the role of electrophoresis in this broad field. Four sessions are planned in the Advances in Proteomics sequence: New Technologies I & II, Biomedical Applications, and Bioinformatics. A focus on BioMEMS comprises the second sequence with exciting sessions in Biomedical Diagnostics, Proteome Analysis, Cell and Biomolecule Analysis, and Sensing - Detection and Integration. The electrokinetic sessions range from Microscale Separations, Capillary Electrophoresis, Advances in Electrokinetics, to Environmental and Colloidal Applications. A plenary session is also planned. Chairs and co-chairs are currently being sought for many of these sessions.



Nominations for plenary speakers and volunteers for chair duties are welcome and should be directed to Victor Ugaz (ugaz@tamu.edu) or Adrienne Minerick (minerick@che.msstate.edu).

We look forward to seeing you in San Francisco!

Meeting Co-organizers



Adrienne
Minerick



Victor
Ugaz

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2005 Poster Winners

Marvi Matos, Carnegie Mellon University: 1st Place

Mario Oyanader, Universidad Catolica Del Norte, Chile: 2nd Place

Thomas Chiesl, Northwestern University: 3rd Place

Carlos Martinez-Soto, Universidad Catolica Del Norte: Honorable Mention