

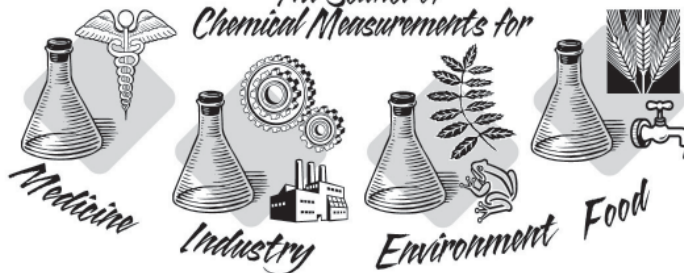


AMERICAN CHEMICAL SOCIETY  
DIVISION OF ANALYTICAL CHEMISTRY  
NEWSLETTER

Fall Meeting  
Philadelphia  
August 22-26, 2004

## Analytical Chemistry Serves Humanity

The Science of  
Chemical Measurements for



# Advances in measurement science at the Philadelphia meeting



By M. Bonner Denton,  
Analytical Division chair.

As Chair of the Analytical Division, I want to invite our members to attend the 228th Annual Meeting of our great society. John Callahan, Program Chair, has assembled a broad-based and exciting group of papers and posters representing the latest advances in Analytical Chemistry. Additionally, we are honoring some of our community's most respected members through symposia featuring:

The Award in Electrochemistry, sponsored by the Cole-Parmer Instrument Company, to Henry S. White.

The Award in Chemical Instrumentation, sponsored by the Dow Chemical Foundation, to D. Jed Harrison.

The Arthur F. Findeis Award for Achievements by a Young Analytical Scientist, sponsored by Philip Morris USA, to David C. Muddiman.

The Award for Distinguished Service in the Advancement of Analytical Chemistry, sponsored by Waters Corporation, to Mary A. Kaiser.

The J. Calvin Giddings Award for Excellence in Education, sponsored by the Dekker Foundation, to Theodore Kuwana.

The diversity of the papers and posters to be presented at the Philadelphia meeting testifies to the strength of our discipline and the importance of chemical measurement science to the sophisticated world in which we live. From basic research to highly specific process control technology, our community continues to be a leader in developing new and innovative concepts which lead to a more productive and safer nation. Analytical Chemistry provides much of the foundation to many modern industries supporting research and development, production, product quality control,

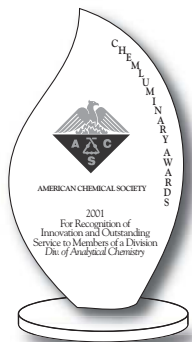
and the dreaded "trouble shooting" when "something goes wrong." Analytical chemists are on the scene with a whole arsenal of state-of-the-art technologies assisting in providing solutions to the question or problem at hand.

In what directions will the field of analytical chemistry venture in future? Clearly, techniques that are more sensitive, cheaper, faster, more compact, and provide additional information are currently coming out of the research laboratory with ever improved technologies. Other highly innovative approaches are on the horizon. In fact, we will all hear about many of these new advances in measurement science, and their innovative new applications, at the Philadelphia Meeting.

See you all in Philadelphia!

**INSIDE:**  
"The chemistry  
of thought:  
neurotransmitters  
in the brain"  
page 6

**The Division of Analytical Chemistry**



**2001 Winner of the ACS Chemluminary Award for membership service**

**The Division**

1) Provides a forum for discussions of advances in Analytical Chemistry. 2) Increases awareness of the field on other scientists and the general public. 3) Encourages students to select Analytical Chemistry as their field of study. 4) Advises the ACS on matters related to Analytical Chemistry and 5) Offers analytical chemists opportunities for professional contacts.

**Mission of the Division**

The promotion of analytical chemistry in all of its aspects; the presentation of programs of papers on analytical chemistry and related fields at national meetings of the Society; cooperation with local sections and regional groups; the organization and sponsorship of symposia on topics of interest to analytical chemists; the development of activities which will promote the growth of analytical chemistry; and the establishment of means for increasing the professional status of and the contacts between analytical chemists.

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**Consult our web site or contact our secretary Steven Petrovic for information on time and place of our Division's Executive Committee meeting at Philadelphia. You're invited to attend it**

**ANYL Philadelphia Meeting Program**

<i>Pennsylvania Convention Center, Loews</i>	S	M	Tu	W	Th
Analytical Scale Chiral Separations** (IEC)	A				
Chemometrics and Data Analysis	D				
General Papers	E				
Analytical Division Awards Symposium		D			
State of the Art in Polymer Analysis** (PMSE, POLY)		D			
Sci-Mix		E			
Analytical Division Graduate Fellowship Symposium			A		
In Vivo Bioanalytical Chemistry at the Frontiers of Molecular Medicine			A		
Delaware Valley Chromatography Forum Student Symposium			P		
Opportunities for Analytical Chemists in the Pharmaceutical Industry** (WCC, YCC)			P		
Analytical Chemistry in the Health Sciences: Nutraceuticals and Dietary Supplements				A	
Chemical Imaging: In-vivo and Mass Spectrometric Methods				A	
Analytical Chemistry in the Health Sciences: Metabonomics** (TOXI)				P	
Chemical Imaging: Spectroscopic Methods				P	
Analytical Chemistry in the Health Sciences: Analysis of Oligonucleotide Therapeutics					A
Proteomics: Clinical Diagnostics					A
Proteomics: Drug Discovery					P
<b>Co-sponsored Symposia:</b>					
Preparative-Scale Chiral Separations (IEC)	P				
Defining Moments That Lead to Successful Careers in Chemistry* (YCC)		A			
Integration of Analytical and Experimental Data into Enterprise-Wide Systems* (CINF)		P			
Undergraduate Research Poster Session: Analytical Chemistry* (CHED)		P			
Analytical Fluorine Chemistry* (FLUO)			D		
Recent Advances in Metabonomics and Lipidomics* (TOXI)				A	
Vibrational Spectroscopic Advances in Polymer Characterization* (PMSE)				P	
Spectroscopy of Surfaces* (GEOC)					D

A - AM. P - PM. D - AM-PM

\* Cosponsored symposium, primary organizer(s) shown in parentheses.

\*\* Primary organizer, cosponsoring organizer(s) shown in parentheses.



**The Division Dinner at the Philadelphia Meeting**

**Monday, August 23, 2004, 6-9 pm**

Rooms 401/402 at the Philadelphia Marriott Hotel  
(1201 Market Street Philadelphia, PA 19107 across the street from the convention center)

The social hour will be held from 6-7 pm.

There will be a cash bar with a selection of beers, wines and mixed drinks. Dinner will be from 7-9 pm and will be an Italian buffet with a selection of salads, three entrees (vegetarian rigatoni primavera, grilled salmon and seared chicken), Italian vegetable medley and desserts (tiramisu, cannoli, biscotti and rum babas). The cost will be \$55 per person (covers dinner, gratuity and tax). Tickets will be available in advance or at the social events booth during registration.

# Division of Analytical Chemistry Awards Solicitation of Nominations for 2005

**Deadline for submissions:  
November 1, 2004**

It is time to solicit nominations for our DAC awards. Please spread the word as broadly as possible! The spectrochemistry award will not be given in 2005 since we have not found a corporate sponsor for it.

Current awards:

\*ACS Division of Analytical Chemistry Award in Chemical Instrumentation Sponsored by the Dow Chemical Company Foundation.

\*ACS Division of Analytical Chemistry Cole-Parmer Award in Electrochemistry.

\*ACS Division of Analytical Chemistry J. Calvin Giddings Award for Excellence in Education Sponsored by the Dekker Foundation.

\*ACS Division of Analytical Chemistry Arthur F. Findeis Award for Achievements by a Young Analytical Scientist Sponsored by the Philip Morris Companies.

\*ACS Division of Analytical Chemistry Award for Distinguished Service in the Advancement of

Analytical Chemistry Sponsored by Waters Corporation.

\*ACS Division of Analytical Chemistry Award for Young Investigators in Separation Science Sponsored by Agilent Technologies.

Specific information on these Awards can be found at the Division's web site:

[www.acs-analytical.duq.edu/index.html](http://www.acs-analytical.duq.edu/index.html)

Eligibility is not restricted to members of ANYL. Nominees for the Award for Excellence in Teaching must have demonstrated excellence in teaching through at least five years at the time the award is presented. Nominating and seconding letters may be submitted by persons who are not members of the Division.

Send nominations no later than November 1, 2004 to:  
Bonner Denton  
(520) 621-8246  
[BDENTON@U.ARIZONA.EDU](mailto:BDENTON@U.ARIZONA.EDU)

## Division of Analytical Chemistry

### 2004 Fall Program Sponsors

Eastman  
National Institute of Standards & Technologies  
Pfizer Inc, Research and Development  
Phillip Morris Companies  
Procter and Gamble Society for Analytical Chemists of Pittsburgh  
Applied Biosystems  
Chiral Technologies

**Thanks!**

### ACS Negotiates Discounts on Travel to ACS Mtgs

Fares for the 2004 ACS meetings—national, regional, and ProSpectives.

**Airlines:** Discounts 5 to 7 days before and after mtg. No Saturday night stay required. 5% off lowest published domestic fares. 10% off unrestricted coach fares. Additional 5% off on fares booked 60 days in advance (30 days for United)

•Delta-(800)241-6760, 8 am-11 pm EST. Refer to File Number: 202142A

•United-(800) 521-4041, 8 am-10 pm EST. Refer to Mtg. Plus Code 517SM

•US Airways-(877) 874-7687, 8 am-9 pm EST. Refer Gold File #: 97692959

**Auto Rentals:** Avis and Hertz. Discounts to a week before and after the meeting. Call: Avis-(800) 331-1600; online at [www.avis.com](http://www.avis.com). Refer to ID Code: B120799

Hertz-(800) 654-2240; online at [www.hertz.com](http://www.hertz.com). Refer to ID Code: CV# 02UZ0004

## Electronic Newsletter Outcome

Our last issue was published for the first time electronically to save money and prevent newsletters lost in the mail. Other benefits were a decrease on the publication time, fewer printing and mailing delays, and flexibility for last minute corrections.

We used both e-mail and postal mail to alert our members: 70% by e-mail with a link to the newsletter. Postcards were sent via US Mail to the rest of the members, with a 0.3% of the postcards returned as undeliverable.

The Division saved \$7,000. We were also happy about the level of interest on the newsletter: three weeks after publication, 23% of the members with e-mail accessed the newsletter, plus 14% of the members that received postal mail notification. And so our current plans are to continue publishing one electronic edition annually.

Anti-spam software appears as the biggest threat to e-mail notification of publication. Our e-mail was labeled in some cases

-we do not know how prevalent this was- as 'spam' which carried a risk for it to be automatically or unintentionally deleted. The most severe case was e-mail which was not be delivered and bounced off.

I do not know of any robust solution yet though I hear the spam problem is being worked on. In the mean time, some of us may have to train our spam filters to spare future e-mails, while it also helps not to press the delete mail button with too much alacrity, and when apparent, we may be forced to talk to our e-mail administrator if we discover that bona-fide e-mails are not being delivered.

I look forward to hearing from you if you had problems receiving our e-mail. We will continue work on understanding the extent of this problem, and implementing any emerging technical solutions.

Cordially,  
Al Ribes  
ANYL newsletter editor.

## We need your help



Spectrochemical analytical chemists are not being recognized because the Division lacks a corporate sponsor to support the Spectrochemical Award. If you think that your company could sponsor this award, please contact David Pinkston or Bonner Denton.

# Analytical Division Technical Programs for Upcoming Meetings



by John Callahan  
Analytical Division  
Chair Elect

## 2004 Fall ACS Meeting in Philadelphia

The Analytical Division program for the ACS National meeting in Philadelphia, August 22-26, 2004 is set. There will be a significant emphasis on analytical chemistry related to the health sciences, befitting the heavy concentration of health related industries in the Philadelphia area. Contributed papers will be part of the **Analytical Chemistry Poster Session** (Sunday night) and **Sci-Mix** (Monday night). The oral sessions will consist of invited symposia and will be held at the Loews (Regency C1 and C2). The following is a summary of the oral Sessions:

Sunday: **Chemometrics** (organizer: Barry Lavine) and **Chiral Separations** (Joe Foley). The latter will be cosponsored with I&EC and will consist of a morning session on Analytical Scale Chiral Separations and an afternoon session on Preparative Scale Chiral Separations.

Monday: **Analytical Division Awards Symposia** (Organized by the Division Chair, Bonner

Denton, and including Distinguished Service in the Advancement of Analytical Chemistry, Electrochemistry, Chemical Instrumentation, Excellence in Education, and Achievements by A Young Analytical Chemist). There will also be a full day symposium on **“State of the Art in Polymer Analysis”** (B. Simonsick and K. Owens).

Tuesday: **Analytical Graduate Fellowship Symposium** (organized by R. Dallinger and featuring talks by past winners of the Division Graduate Student Fellowships), **“In Vivo Bioanalytical Chemistry at the Frontiers of Molecular Medicine”** (Julie Stenken), **“Opportunities for Analytical Chemists in the Pharmaceutical Industry”**, (cosponsored with YCC and WCC and organized Cynthia Larive), and the Delaware Valley Chromatography Forum Student Symposium (cosponsored with the Delaware Valley Chromatography Forum and the Delaware Valley ACS chapter; organized by Brian Bidlingmeyer and Marshall Fishman).

Wednesday: **“Analysis of Nutraceuticals and Dietary Supplements”** (Lane Sander), **“Metabonomics”** (the second part of a full day symposium cosponsored with TOXI, organized by Doug Gage), and **“Chemical Imaging”** (spectrometric methods, Akos Vertes; spectroscopic methods, Ira Levin).

Thursday: **“Analysis of Oligonucleotide Therapeutics”** (David Smisek), **“Proteomics for Clinical Diagnostics”** (James Stephenson) and **“Proteomics: Drug Discovery”** (Amina Woods).

Our sincere thanks to all those who contributed time and effort to serve as organizers for the technical program at the Philadelphia meeting.

## 2005 Spring ACS meeting in San Diego

The agenda for the technical program for the spring 2005 ACS meeting in San Diego is taking shape. Once again the core of the program will be symposia organized around invited speakers. However, we also anticipate incorporating some contributed oral presentations in the program. Please consult the ACS web site to determine whether contributed oral presentations will be considered for some of the symposia. As usual, contributed papers will also be accepted for the Analytical Division Poster Session and for the Sci-Mix poster session. At present, the technical program will include the following:

**“Ion-molecule reactions in Analytical Chemistry”** (Organizers: R. Vachet of U. Mass and V. Ryzhov of Northern Illinois University); **“Sensors and Biosensors”** (Functional polymers: M. Schoenfish, UNC; Nanostructures, C. Zhong, SUNY-Binghamton); **“Analytical Chemistry in the Atmospheric Sciences”** (K. Prather, UCSD); **“Sensors and Instrumentation for Measurements in the Marine Environment”** (T. Short, U. of South Florida); **“Light-Pressure Techniques in Analytical Chemistry”** (S. Hart, Naval Research Lab); **“Frontiers in Biomolecular Mass Spectrometry”** (G. Siuzdak, Scripps Institute); **“The Next Generation of Analytical Professionals”** (C. Larive, Kansas); **“Analysis of Biomole-**

**cular Aggregates”**; **“Monolithic Chromatography Columns”**; Symposium Honoring the Late Professor Csaba Horvath (A. Guttman, Diversa Inc.), and ACS Chromatography Award Symposium.

Other symposia for the San Diego meeting are in the planning stages and will be announced on the web site or in C&E News this summer.

## Washington, DC Fall 2005 ACS meeting

Planning for the technical program for Washington, DC is in the preliminary stages. At present we have planned for an emphasis on Instrumentation and Sensors for Homeland Security (a follow-up to the excellent sessions held at the New York meeting in fall 2003) with emphasis on detection of chemical, biological, nuclear threats as well as explosives. We will have sessions that will focus on the role of analytical chemistry in government regulation and applications of nonlinear optics in analytical chemistry. Other areas under consideration are the interface between organic and analytical chemistry and emerging applications of terahertz spectroscopy.

If you have further ideas and suggestions for either the San Diego or Washington, DC programs, please contact John Callahan (John.Callahan@cfsan.fda.gov). Some of the ideas for both of these meetings are the direct result of inquiries by scientists interested in organizing symposia. We highly encourage and greatly appreciate your input.

## Subdivision of Chromatography News from the SCSC

By Victoria McGuffin, Michigan State University

The results from the elections of the Subdivision are in! The officers for 2004-06 are:

Chair: John G. Dorsey (Florida State University). Chair Elect: Brian A. Bidlingmeyer (Agilent Technologies). Secretary: Robert L. Stevenson (Abacus Group). The members of the Executive Committee are Luis A. Colon (SUNY-Buffalo), John W. Dolan (BASi Northwest Laboratory), Susan V. Olesik (Ohio State University), and O. David Sparkman (University of the Pacific). Congratulations to the newly elected officers!

We are pleased to announce the recipient of the inaugural ACS ANYL Award for Young Investigators in Separation Science, sponsored by Agilent Technologies. Dr. Andre M. Striegel (Solutia Inc.) was selected on the basis of his contributions to size-exclusion chromatography. The award will be presented at the 2005 Pittsburgh Conference in Orlando, FL. Congratulations Andre!

The Bylaws of the Subdivision are under revision to include provision for electronic submission of abstracts, electronic balloting, revised terms of officers, and some changes in operating procedures and technology. The revisions may be reviewed on our web page ([www.acs-analytical.duq.edu](http://www.acs-analytical.duq.edu)) and

will be approved at the annual meeting of the Subdivision to be held at the 2005 Pittsburgh Conference in Orlando. Please plan to attend!

The Subdivision has some excellent programs planned for the upcoming ACS Mtgs. For Philadelphia, we are offering with the IEC Division a full-day symposium on advances in chiral separations. One half-day session will be devoted to analytical-scale separations (Joe P. Foley, Drexel U.) and the other half-day session to preparative-scale separations (Geoffrey B. Cox, Chiral Techn.). In addition, there will be a half-day symposium on nutraceuticals and dietary supplements (Lane C. Sander, NIST). For the 2005 Meeting in San Diego, we are planning a symposium on advances in monolithic stationary phases (Frantisek Svec, U. of California-Berkeley), a half-day symposium on characterization of biomolecular aggregates by chromatography, electrophoresis, and field-flow fractionation (S. Douglas Gilman, Louisiana State University). Finally, a symposium to honor the memory of Prof. Csaba Horvath. There is still time to submit abstracts for contributed papers at this meeting!

If you have any suggestions for symposia, please contact John Dorsey ([dorsey@chemmail.chem.fsu.edu](mailto:dorsey@chemmail.chem.fsu.edu)).

## I. M. Kolthoff Enrichment Awards for Undergraduate Students

By Cynthia Larive, KU.



Today's analytical chemistry students are the future leaders of our field. To encourage talented chemistry undergraduate students to pursue further studies in analytical chemistry, the Division of Analytical Chemistry of the American Chemical Society established the I. M. Kolthoff Enrichment Award. The Award honors the late Professor of Analytical Chemistry at the University of Minnesota who was one of the leaders of the profession in the 20th century, author of numer-

ous influential textbooks and a major researcher in electro-analytical chemistry. Kolthoff awards provide recognition and funding for undergraduate students to travel to a spring ACS National Meeting where they present the results of their research at the Division of Analytical Chemistry Poster Session. Travel awards up to \$750 will be made on the basis of both scientific merit and financial need. If you have talented undergraduate students working in your research lab, please consider nominating them for a Kolthoff award.

The deadline for applications for the Spring 2005 ACS National Meeting in San Diego is October 15, 2004. Application and submission information can be obtained on the Division of Analytical Chemistry website: <http://www.acs-analytical.duq.edu/kolthoffaward.html>

Please direct any questions to Dr. Cynthia Larive by E-mail at [clarive@ku.edu](mailto:clarive@ku.edu)

<http://www.chemheritage.org/>

## Chemical Heritage Foundation Welcomes ACS to Philadelphia

To welcome ACS members to Philadelphia, CHF will host a variety of ACS division activities, offer public tours of its headquarters, and open its newest exhibit.

Nestled in the heart of Philadelphia, CHF houses the Othmer Library of Chemical History, which includes the Roy G. Neville Chemical History Library

of rare books. Among CHF's holdings of more than 100,000 documents are works by Isaac Newton, Robert Boyle, Dmitri Mendeleev, and many others. The foundation's galleries display the Eddleman and Fisher Collections, which present a view of alchemy in over 90 paintings and 200 works on paper from the 17-19th centuries. CHF also produces its own

quarterly magazine, Chemical Heritage, and publishes books on the history of the chemical sciences. Additionally, CHF creates educational exhibits, including the traveling exhibit Women in Chemistry, which will return from a national tour in time for the ACS meeting.

The newest CHF exhibit, Joseph Priestley, Radical Thinker, highlights the legacy of the religious dissenter, political activist, educator, and chemical experimenter. The exhibit will open at CHF on 21 August and run until July 2005. Funded in part by a generous contribution

from the Richard Lounsbury Foundation, it combines images from CHF's collections, and artifacts from the Smithsonian Institution, Dickinson College, and the Priestley House in Northumberland, Pennsylvania.

CHF will offer tours of its headquarters on Monday, 23 August, and Tuesday, 24 August. Registration for these free tours will be available at the CHF booth at the ACS meeting; transportation will be provided between the meeting site and CHF. To learn more about CHF and J. Priestley, Radical Thinker, visit [www.chemheritage.org](http://www.chemheritage.org).



## The chemistry of thought: neurotransmitters in the brain

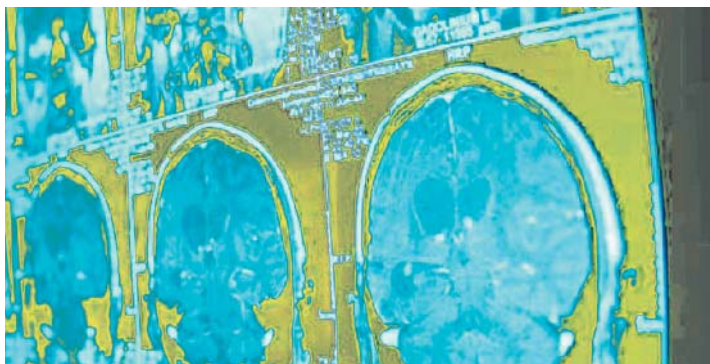
*Editor's note: The Division's program at the Philadelphia meeting has an emphasis on bioanalytical chemistry. To celebrate this field, we are reprinting this article, which describes some cutting edge work in this area.*

by Jeffrey N. Stuart, Amanda B. Hummon,  
and Jonathan V. Sweedler, University of Illinois

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## The Analytical Sciences Digital Library: A Useful Tool for Analytical Chemistry Instructors

Summer is almost over and soon analytical faculty across the country will be planning their lectures and looking for new ways to liven up their classes while teaching important concepts. The Analytical Sciences Digital Library (ASDL) is a great collection of web-based resources, related to chemical measurements and instrumentation, freely accessible at [www.asdlib.org](http://www.asdlib.org). ASDL content includes links to over 200 sites containing animations, on-line texts, PowerPoint lecture slides, tutorials, simulations and virtual experiments. All of the materials in the ASDL collection are peer reviewed by at least two experts in the field and annotated to provide a short description of the site content and the level of student for which the site is most appropriate. ASDL is a compendium of web-resources classified in categories of pedagogy, technique, analytical ap-

plication, and course materials. Sites can be identified by browsing these categories, or through keyword search. New categories of the virtual laboratory, containing simulations and virtual experiments, and on-line articles, a collection of articles illustrating best educational practices and strategies for integrating research and teaching, are under development. ASDL content is also useful for practicing analytical chemists who want to brush up on fundamentals or learn about a new technique. The [www.asdlib.org](http://www.asdlib.org) portal provides News of interest to the ASDL user community and links to other collections related to analytical chemistry. To help ASDL better serve the needs of the analytical chemistry community, please suggest your favorite websites for review or volunteer to serve as a reviewer of ASDL content by sending an email message to Cindy Larive at [asdl@ku.edu](mailto:asdl@ku.edu).

### 2004 Pfizer Graduate Travel Grant Award winners

The following students have received travel awards to attend the 2004 Fall ACS meeting in Philadelphia:

Amanda Hummon	University of Illinois
Susan Reslewic	University of Wisconsin-Madison
Kenneth Dokken	Kansas State University
Kristin Price	University of Kansas
Monsuru Gborigi	Northeastern Illinois University
Jonathan Shackman	University of Michigan

**We appreciate the support of  
Pfizer Research & Development  
who created this program.**

# Proposed Amendments to the Division of Analytical Chemistry Bylaws

Sally Stafford, Hewlett Packard

Division members recently received a message from Steve Petrovic, Division Secretary, with materials for the 2004 Division elections that included an attachment on proposed amendments to the Division Bylaws. Bylaws for Divisions and Local Sections are periodically reviewed and updated, to incorporate new procedures and practices and to ensure consistency with the ACS Constitution and Bylaws.

The main reasons for the amendments proposed in this revision to the Division Bylaws are to (1) reflect the adoption of electronic abstract submission and (2) enable the possibility of alternative election procedures, e.g., electronic balloting, in the future.

(1) Bylaw VII, Papers and Publications, contains several changes in wording that allow it to cover abstracts submitted either electronically or as paper copies.

(2) Bylaw III, Officers and Executive Committee, contains changes in Section B that would allow elections to be conducted either by mail or by other means. A similar change appears in Bylaw IX, Amendments. As described in Steve's message, the Division is currently running a pilot project on the use of a new process to distribute ballots electronically as well as by mail. This is part of a broader investigation of electronic balloting procedures being conducted by the ACS Nominations & Elections Committee. Amendments to the Division Bylaws are not required in order to carry out the pilot study. However, the amendments would allow alternative election procedures to be ad-

opted in the future, if proposed amendments to the ACS Constitution and Bylaws, currently under discussion, enable their use.

Other changes appear throughout the Bylaws that reflect current practices, e.g., "Society Affiliates" and "Program Chair", or the terms of Subdivision officers in Bylaw VIII. All of the changes are indicated using strikethroughs for deletions (red) and underscoring for additions (blue).

The procedure for amendments, when Bylaws modifications are suggested, involves drafting a version incorporating the proposed changes for discussion and a vote by the Executive Committee (EC). The draft is generally submitted for preliminary review by the Committee on Constitution & Bylaws (C&B), any additional changes are made by the EC, and the final draft is submitted to the Division membership for a vote followed by final C&B approval. Bylaw IX describes the voting procedure.

The vote on these proposed amendments will be taken at the ACS Fall National Meeting in Philadelphia, during the Analytical Division Executive Committee meeting on Saturday, 8/21/04. See the meeting notice elsewhere in this Newsletter, and please contact the Division Chair or Secretary if you have comments or questions about the bylaws amendments or voting procedures.

# ANYL - Grad Fellowships

Richard F. Dallinger, Wabash College

The ANYL Graduate Fellowship Committee is pleased to report that the following graduate students have been awarded graduate fellowships (nine-month and summer) for 2004-2005. We are grateful to the sponsors listed below for their financial support of the Graduate Fellowship Program and for supporting the attendance of their committee representatives at PittCon 2004.

## Nine-month Fellowship Recipients (\$18,000 stipend)

Fellow	Institution	Thesis Advisor	Sponsor
Emily Clark	Arkansas	Ingrid Fritsch	Procter & Gamble
Amy Tabert	Purdue	Graham Cooks	GlaxoSmith-Kline
Li Zhu	Louisiana State	Steven Soper	Eli Lilly & Co.

## Summer Fellowship Recipients (\$6,000 stipend)

Fellow	Institution	Thesis Advisor	Sponsor
Jamie Cohen	Cornell	Hector Abruna	J&J-PRD
Gerardo Gamez	Indiana	Gary Hieftje	SACP
Seppe Kuehn	Cornell	John Marohn	SACP
Mark Poggi	Georgia Tech	Lawrence Bottomley	SACP
Zachary Schultz	Illinois	Andrew Gewirth	SACP
Zhanping Zhang	Delaware	Thomas Beebe	Eastman Chemical

(SACP = Society for Analytical Chemists of Pittsburgh)  
(J&J-PRD = Johnson & Johnson Pharmaceutical Research and Development)

## Honorable Mention

Applicant	Institution	Thesis Advisor
Jason Hogan	Purdue	Scott McLuckey
Kaveh Kahen	George Washington	Akbar Montaser

An article announcing and congratulating these students will appear in the September 1, 2004, edition of Analytical Chemistry. Two of the thesis advisors for the Graduate Fellowship recipients and honorable mention applicants, Steven Soper (1989 Summer) and Scott McLuckey (1981 nine-month), were themselves ANYL Graduate Fellows. Jeanne Pemberton, who received the 2004 ACS Award in Analytical Chemistry, was a 1980 ANYL Summer Graduate Fellow, and Mary Kaiser, long-time Graduate Fellowship Committee representative from DuPont, received the ANYL Award for Distinguished Service in the Advancement of Analytical Chemistry.

The members of the Graduate Fellowship Committee who generously giving many hours of effort in evaluating applications and selecting recipients were:

**The ANYL Graduate Fellowship Committee (continued)**

David Burinsky – GlaxoSmith-Kline (sponsor)  
 Curt Cleven – Eastman Chemical (sponsor)  
 Paul Edmiston – College of Wooster  
 Patrick Epperson – Lawrence Livermore National Laboratory  
 Rong Feng – Johnson & Johnson Pharmaceutical Research and Development (sponsor)  
 Susan Forest – Procter & Gamble (sponsor)  
 Gregg Gould – Society for Analytical Chemists of Pittsburgh (sponsor)  
 Carolyn Koester - Lawrence Livermore National Laboratory  
 Jeanette Rice – Georgia Southern University  
 Heather Weimer – Lilly (sponsor)

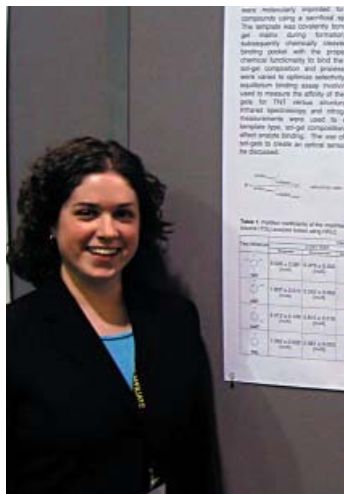
The Committee would like to recognize the contributions made by Dr. Brian Nunnally from Eli Lilly & Company and Dr. Patrick Epperson of Lawrence Livermore National Laboratory, who have completed their terms on the Committee.

Further information about the ANYL Graduate Fellowship Program can be found on the Program web site (<http://www.wabash.edu/acsgraduatefellowship/home.htm>).

**At the Anaheim's meeting: The Analytical Division's dinner- Always a bounty of fun and good food.**



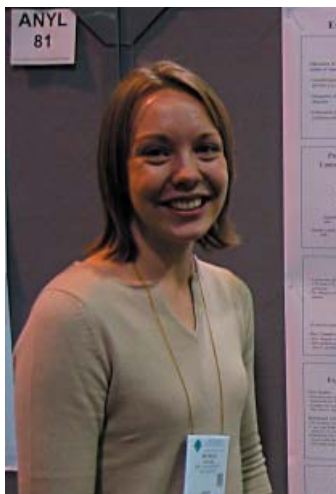
**2004 I. M. Kolthoff Enrichment Undergraduate Students awardees presenting their posters at the Anaheim meeting**



Colleen Burkett. Advisor: Paul Edmiston. C. Wooster, OH



Heather Martin. Advisor: Emily Niemeyer. Southw. U. TX



Michelle Kovarik. Advisor: Scott Martin. St. Louis U. Mo.



Sara Andria. Advisor: Bill Heineman. U. Cincinnati, OH.



## Recipients of the 2004 Division of Analytical Chemistry Awards

### **Award in Electrochemistry Sponsored by the Cole-Parmer Instrument Co.: Henry S. White, University of Utah**

Henry S. White received the B. S. degree in chemistry from the University of North Carolina (1978) and the Ph.D. degree in chemistry from the University of Texas (1983). Following a postdoctoral appointment at the Massachusetts Institute of Technology, he joined the faculty of the Department of Chemical Engineering and Materials Science at the University of Minnesota. During a 9-



Henry S. White

year period at Minnesota, he became an Associate Professor and was the McKnight and Shell Professor of Chemical Engineering. In 1993, he moved to the University of Utah, where he is currently a Professor in the Department of Chemistry. His research interests have centered on molecular transport in complex electrochemical systems, particular those systems involving transport in large electric and magnetic fields. Current research interests include iontophoretic transport across skin, electrochemistry in ultrathin-layer cells, pore-based sensors, and

magnetic field-driven electrochemical fluidics. He is currently the President of the Society of Electroanalytical Chemistry and an Associate Editor of the Journal of the American Chemical Society. He is the recipient of the 2000 C. N. Reilly Award of the Society of Electroanalytical Chemistry, the 2002 Faraday Medal of the Royal Society of Chemistry (Electrochemistry Group), the 2004 Distinguished Creative Research Award at the University of Utah, and the 2005 D.C. Grahame Award of The Electrochemical Society.

### **Award in Chemical Instrumentation Sponsored by the Dow Chemical Foundation: Daniel Jed Harrison, University of Alberta**

D. Jed Harrison is a native of Vancouver, Canada. He earned an Honours B.Sc. in Chemical Physics from Simon Fraser University in 1980, and received the G. Shrum Gold Medal upon graduation. He was the recipient of a Research Council (NSERC) of Canada Post-Graduate Fellowship while undertaking graduate studies in



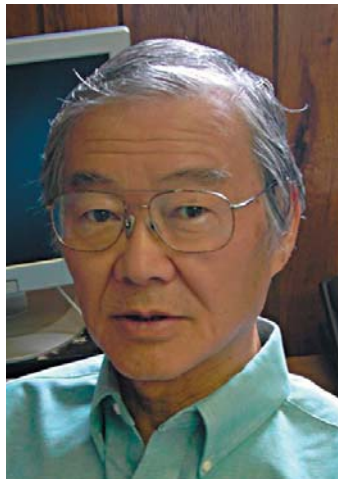
Daniel Jed Harrison

Chemistry at the Massachusetts Institute of Technology. There he worked with Professor Mark Wrighton, graduating with a Ph.D. in 1984. He then joined the Chemistry Department at the University of Alberta where he was promoted to Full Professor in 1994. His research interests are in the application of microfabrication methods and micromachining technologies to analytical systems and chemical sensors. This program encompasses the development of "lab-on-a-chip" technology for the creation of miniaturized devices capable of performing

integrated sample processing and separations, as well as electrochemically-based sensors. Harrison is the co-author of over 150 scientific publications. He also serves on the Program and Steering Committees of the Micro-Total Analysis Systems Workshops, and the Transducers Conferences, and is on the Editorial Advisory Boards of Analytical Chemistry, Lab on a Chip and Electrophoresis. He is the recipient of the Canadian Society for Chemistry's W.A.E. McBryde Medal, the Maxxam Award, and the Heinrich Emanuel Merck Prize.

### **J. Calvin Giddings Award for Excellence in Education Sponsored by the Dekker Foundation: Theodore Kuwana, University of Kansas**

During his 40 years as a faculty member at the Universities of California (Riverside), Case Western Reserve, Ohio State and Kansas (KU), Ted's contributions may be summarized as being a mentor of those who have become leaders in education; a founder of programs for the professional development of university teachers; a leader in fostering curricular



Theodore Kuwana

reform; a developer of innovative pedagogical practices; and a promoter of diversity."

Ted received his B.S. in chemistry from Antioch College (1954), under Richard Yalman, and a Ph.D in analytical chemistry from the University of Kansas (1959) under Ralph N. Adams. After a postdoctoral year at Caltech with Fred Anson, he was a faculty member at the mentioned institutions, and in 1985 was appointed Regents Distinguished Professor and Director of the Center for Bioanalytical Research at University of Kansas. He has mentored some 100 students and

researchers. He directed the NSF funded MACRO-ROA program at KU for 13 years benefiting nearly 60 university faculty in this program benefited from a research experience in bioanalytical chemistry with many continuing to integrate research into undergraduate programs at their home institutions. In 1996-97 he organized two NSF-sponsored workshops on Curricular Development in the Analytical Sciences. These have stimulated activities related to curricular reforms, like introduction of problem based learning into undergraduate courses.

As director of the NSF Kansas EPSCoR program (1991-2000) he  
Continued on page 10

## Recipients of the 2004 Division of Analytical Chemistry Awards

### Theodore Kuwana (continued)

promoted innovations that fostered women, minorities and cultural diversity in the sciences. His contributions were recognized by an EPSCoR Lifetime Achievement Award at the 2002 National meeting. Although retired from classroom teaching, he continues educational activity as PI of a NSF-funded program to build the Analytical Sciences Digital Library (ASDL), which is a peer-

reviewed collection of Internet web resources in chemical measurements and instrumentation for students, faculty and practitioners. ASDL went online in November 2002: [www.asdlib.org](http://www.asdlib.org). His recent interest is working with regional Native American Tribal Colleges to promulgate digital libraries as a teaching resource for undergraduate science education.

Ted's awards include: Electrochemistry Award by ACS Analytical Di-

vision (1995), Honorary Membership & Medal by the Japan Society of Analytical Chemistry (1991), The Midwest ACS Chemistry Award (St. Louis Section 1991), C. N. Reilly Award by Society of Electroanalytical Chemistry at Pittsburgh Conference (1989), The Distinguished Scholars Award by The Ohio State University (1985), and NIH Special Fellowship (1970). He has been a member of several corporate and organizational boards: Kansas Technology En-

terprise Corporation, University of Kansas Center for Research, Lawrence Chamber of Commerce, Kansas International, YSI and EPSCoR Foundation. He was a founder and first president of the Lawrence Sister City program with Hiratsuka, Japan. The program is in its eleventh year of student exchanges. He was founder and CEO of Cypress Systems, Inc., an electrochemical instrument company that is now a Division of ESA.

### ACS Division of Analytical Chemistry Arthur F. Findeis Award for Achievements by a Young Analytical Scientist Sponsored by Philip Morris USA: David C. Muddiman, Mayo Clinic College of Medicine

David is currently a Professor of Biochemistry and Molecular Biology, Co-Director of the Mayo Proteomics Research Center, and Founder and Director of the W.M. Keck FT-ICR Mass Spectrometry Laboratory in the Mayo Clinic College



David C. Muddiman

of Medicine in Rochester, Minnesota. Prior to moving his research group to the Mayo Clinic, David was an Associate Professor of Chemistry at Virginia Commonwealth University where he began his academic career in 1997 with an adjunct appointment in the Department of Biochemistry & Molecular Biophysics and the Massey Cancer Center. David was born in Long Beach, CA in 1967. David received his B.S. in chemistry from Gannon University (Erie, PA) in 1990 and his Ph.D. in Analytical Chemistry from the University of Pittsburgh

in 1995 under the auspices of David M. Hercules. He then was a Department of Energy Postdoctoral Fellow at Pacific Northwest National Laboratory in the Environmental Molecular Sciences Laboratory working with Richard D. Smith from 1995-1997. He has presented over 165 invited lectures and presentations, has published over 75 peer-reviewed papers and is the recipient of the 2004 ACS Arthur F. Findeis Award, the 1999 American Society for Mass Spectrometry Research Award, and the Safford Award, University of Pittsburgh, for Excellence in Teaching.

### Award for Distinguished Service in the Advancement of Analytical Chemistry Sponsored by the Waters Corporation: Mary A. Kaiser, DuPont Corporate Center for Analytical Sciences

Mary is a Research Fellow in the DuPont Corporate Center. She received a B.S. from Wilkes U., a MS. from St. Joseph's U. in Philadelphia on spectroscopy under Edward J. Smith, and a Ph. D. from Villanova U. in 1976, on separation science under Robert L. Grob. After a year of postdoctoral work with Professor L. B. Rogers



Mary A. Kaiser

at the University of Georgia in Athens, she joined DuPont's Central Research. For the last 27 years she has worked in Central Research, Engineering, and Polymer Products within DuPont. Her current technical interests involve analytical measurements of fluorine-containing compounds. She is the chair of the analytical group of the Fluoropolymer Group of the Society of the Plastics Industry, chair of the analytical group of the Telomer Research Program, and advisor to Perfluorinated

Organic Compounds in the European Environment. Mary served as President of the Chromatography Forum of the Delaware Valley; meeting co-chair and governing board chair of the FACCS; and program chair, short course chair, secretary, treasurer, and president of the Eastern Analytical Symposium. She has been a member of the executive committee of the subdivision of chromatography and chair of the ANYL Division of the ACS. She received the Founders Award for outstanding achievement from Villanova U. and the Chromatography Forum of the Delaware Valley award for theory, instrumentation,

## Recipients of the 2004 Division of Analytical Chemistry Awards

### Award for Young Investigators in Separation Science Sponsored by Agilent Technologies: Andre' M. Striegel, Florida State University

Andre' M. Striegel is Assistant Professor in the Chemistry and Biochemistry Department at Florida State University. Previously he spent several years as a research scientist with Solutia, first in their Physical and Analytical Sciences Center and then in their Films R&D department. He holds Bachelor's and Ph.D. degrees in Chemistry from the University of New

Orleans (UNO). His doctoral work, on electrospray ionization mass spectrometry and size-exclusion chromatography



Andre' M. Striegel

of oligo- and polysaccharides, was performed under Professor Richard B. Cole (UNO) and in conjunction with the U.S. Department of Agriculture (USDA) Southern Regional Research Center. He also performed post-doctoral research, on structure-property relations of plant polymers and dendrimers, under Dr. J. L. Willett at the USDA National Center for Agricultural Utilization Research. Andre' Striegel is the

author of over twenty peer-reviewed papers and book chapters, and is editor of ACS Symposium Series volume 893, "Multiple Detection in Size-Exclusion Chromatography." Since 2001, he has been a member of the editorial board of the journal "Polymer-Plastics Technology and Engineering."

*This award will be presented at the 2005 Pittsburgh Conference*

### Mark Your Calendars for EAS Nov 15-18, 2004 Somerset, NJ

By Barbara Kebbekus

Harold McNair of Virginia Tech will receive the EAS Award for Achievements in the Fields of Analytical Chemistry for his achievements in multiple disciplines of analytical chemistry. Emil Ciurczak of Integrated Technical Solutions is to be given the EAS Award for Achievements in Near-Infrared Spectroscopy, Sponsored by Foss NIRSystems. John Dorsey of Florida State University receives the EAS Award for Achievements in Separation Science, Sponsored by Waters Corporation. Rasmus Bro of The Royal Veterinary and Agricultural University in Denmark is the awardee for the EAS Award for Achievements in Chemometrics. Gerhard Wagner of Harvard University Medical School receives the EAS Award for

Achievements in Magnetic Resonance. Other awards being given at the EAS are: the American Microchemical Society Benedetti-Pichler Award to Jorge Gardea Torresdey of the U. Texas at El Paso; the New York Microscopical Society Ernst Abbe Award to John Reffner of SensIR Technologies; and the New York Section of the Society for Applied Spectroscopy Gold Medal Award to Gary M. Hieftje of Indiana University

Each award is presented at a technical session, with a talk by the awardee and others in related areas of research. The schedule of the award symposia is posted on the EAS web site ([www.eas.org](http://www.eas.org)). Logistical information about registration, travel and lodging is also posted.

### Career Services at ACS Regional Meetings

Visit the Career Resource Center at these ACS regional meetings for an array of professional development programs and services. Features may include an employment clearinghouse (RECH), career management workshops and one-on-one resume critiques.

Southwest Regional Meeting  
September 29 – October 2, Ft. Worth, TX  
Great Lakes Regional Meeting  
October 17-20, Peoria, IL  
Midwest Regional Meeting

October 20-22, Manhattan, KS  
Western Regional Meeting  
October 27-30, Sacramento, CA  
Northeast Regional Meeting  
October 31- November 3, Rochester, NY  
Southeast Regional Meeting  
November 10-13, Raleigh/Durham, NC

For more information, job seekers and employers may visit the ACS website [www.chemistry.org/careers](http://www.chemistry.org/careers) or call 1-800-227-5558 x6209.

### FACCS 2004

FACSS, the Federation of Analytical Chemistry and Spectroscopy Societies, exists to combine many small meetings, previously organized by individual societies, into an annual meeting that covers the whole of analytical chemistry.

NEW FORMAT: A new format for the technical program, designed to promote discussion and exchange of ideas, will be implemented at the Portland meet-

### Portland, Oregon October 3-7, 2004

ing. Each day will begin with a plenary presentation by an internationally recognized speaker or FACSS award winners. The program will contain eight concurrent sessions per AM and PM period, and each of those sessions will be comprised of poster and oral presentations.

Phone: (505) 820-1648;  
Email: [facss@facss.org](mailto:facss@facss.org)

### Activities in Philadelphia for Women Chemists

The ACS Women Chemists Committee (WCC) is sponsoring the following programs:

- Leadership Tools Workshop: Emotional Intelligence Tools for Career Success – Sunday, Aug. 22. Cost is \$199 and registration deadline is August 1, 2004.
- WCC Local Section Networking Lunch – Sunday, August 22. An opportunity to network.
- Women in Industry Breakfast – Monday, August 23. Sara Laschever, co-author of "Women Don't Ask: Negotiation and the Gender Divide"

will share insights and research this book provides about factors that impede the progress of women in their career pursuits (<http://www.women-dontask.com/>);

- WCC Luncheon – Tuesday, August 24. The keynote speaker is Dr. Uma Chowdhry, Vice President, Central Research & Development, DuPont Corp. Check the WCC website for more details: <http://membership.acs.org/W/WCC>

### Analytical Division – Support of Symposia at Regional ACS Meetings

by Tom Wenzel, Bates College

This Division has a speaker's fund to support programming at regional American Chemical Society meetings. Awards will be made to support a symposium. Funds can be used to support travel expenses of an expert in the field who would not normally attend that regional meeting. It is expected that local speakers will then be included to fill out the symposium. Alternatively, funds can provide more modest levels of support to several speakers from the region.

The Division will help regional planners identify possible speakers for symposia topics, if necessary. Applications for support are considered on a rolling basis until the yearly allocation of funds has been expended. There is no formal application process. Anyone interested in applying for an award should contact Tom Wenzel ([twenzel@bates.edu](mailto:twenzel@bates.edu)) by email to discuss the nature of the symposium and the funds that are needed to help support the program.