

DIVISION OF ANALYTICAL CHEMISTRY









#### SPRING 2001 ISSUE

## The San Diego National Meeting

The 221st National Meeting and Exposition of the American Chemical Society will be held April 1-5, 2001. The preliminary and final programs for the meeting appeared in the January 29 and March 5 issues of Chemical & Engineering News.

Technical sessions will be held in the convention center and surrounding hotels. An exposition will be open Monday through Wednesday, with approximately 250 companies exhibiting a wide range of products and services of interest to the chemical community.

A searchable technical program including abstracts, and a Personal Scheduler feature is available on the ACS web site prior to the meeting (www.acs.org/ meetings/sandiego2001/).

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## Analytical Division Sessions

The analytical sessions will be held at the Marriott Hotel.

The major emphasis will be on bioanalytical/bioinformatic advances. There will also be a minor emphasis on nanomaterial analysis.

Division of Analytical Chemistry Symposia at this meeting:

- = ACS Award in Analytical Chemistry.
- = ACS Award in Chromatography.
- = Field Analytical Chemistry: Techniques, Technologies, and

Applications (Cosponsored with Division of Environmental Chemistry).

- = High Throughput Mass Spectrometry in Drug Discovery.
- = LC/MS of Biomolecules.
- = Nanoelectrochemistry.
- = Near Field Spectroscopy: A Tool for Nanoanlysis.
- = New Developments in Enantiomeric Analysis Through Advances in Chiral Selective Separation and Detection.
- = Probing Intrinsic Reactivity Features by Mass Spectrometry.
- Recent Advances Microfluidics .

- = Teaching Analytical Chemistry in the New Century (Cosponsored with Division of Chemical Education).
- =12) General Papers.

Program Chair for the San Diego meeting: Bruce Chase bruce.chase@usa.dupont.com



# You're Invited to the next DAC Executive Committee Meeting

The Executive Committee meeting in San Diego, California, will be on **Saturday, March 31, 2001**, time and location to be announced.

Division members are welcome to attend. You may suggest items to be discussed by sending them by electronic mail to Prof. John N. Richardson, the Division Secretary or by fax to (717) 477-4048.

# Analytical Division Sessions for the Next National ACS Mtg.

CHICAGO. III AUGUST 26-30. 2001

Major Emphasis: Nanomaterial Analysis; Minor Emphasis: Process Stream Analysis.

All abstracts should be submitted using ACS Online Abstract System (OASys) at its web site: http://oasys.acs.org/oasys.htm

Symposium Topic suggestions should be submitted to: Charles Wilkins, Program Planning Chair.

Department of Chemistry and Biochemistry University of Arkansas, Fayetteville, AR 72701. (501) 575-3160; FAX (501)575-4049. cwilkins@comp.uark.edu

Program Chair for this meeting: Catherine Fenselau fenselau@umail.umd.edu

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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.



CHAIR Bruce Chase (302) 695-4434 BRUCE.CHASE@USA.DUPONT.COM

CHAIR-ELECT Catherin Fenselau (301) 405-8616 FENSELAU@UMAIL.UMD.EDU

SECRETARY John Richardson (717) 477-1774 JNRICH@ARK.SHIP.EDU

**TREASURER** Carolyn Ribes CRIBES@DOW.COM



www.acs-analytical.duq.edu/ analytical.html



Contributions to the next Newsletter should be sent not later than May1st, 2001 to: Al Ribes - aribes@dow.com

## DAC Dinner at the San Diego Meeting



The American Microchemical

Society would like to announce

undergraduate awards for students who have done research The Division dinner will be held on Monday Appril 2 at the Old Spaghetti Factory, 275 Fifth Avenue, San Diego.

Cash reception at 6:00, dinner at 7:00.

Cost is \$15.00.

We have made this modestly priced arrangement in the hopes of encouraging students to attend, and also some of the folks who don't generally participate. We expect several of the ACS award winners to attend.

Our restaurant critique in San Diego gives the Old Spaghetti Factory \*\*\*\* for quantity of food and price, \*\*\* for ambiance and quality of food.

Please, order tickets when you pre-register!

# 2001 American Microchemical Society Undergraduate Student Awards



in any area of analytical chemistry. The awardees will receive \$1000, travel expenses up to \$250, and accommodation for two nights to receive the awards at the Eastern Analytical Sym-

posium (EAS) on September 30 -October 4, 2001. Applications should include a cover letter, a 2 page summary of analytical research conducted by the student written in his/her own words, at least three letters of recommendation (one must be from a research director), a one page summary of career goals, and official transcripts from undergraduate institution(s). More details and a list of former awardees is available at chemweb.chem. uconn.edu/microchem/. The deadline for applications is March 15, 2001. The awardee is expected to present their work at EAS as a poster at the Under-

graduate Research Poster Session. Three copies of all materials, including letters and transcripts, should be sent to:

Dr. David J. Butcher, Department of Chemistry and Physics, Western Carolina University, Cullowhee, NC 28723.

Phone: 828 227-3683; Fax: 828 227-7647;

email: butcher@wpoff.wcu.

edu;

www3.wcu.edu/



# The following Division offices are up for election in 2001

#### **Chair-Elect**

The Chair-Elect organizes the divisional programs for the fall 2002 and spring 2003 national ACS meetings and is the Program Chair for those meetings. He/she serves as Chair of the division from October 1, 2002 until September 30, 2003. As Im-

mediate Past Chair, he/she serves as chair of the Nominations Committee and chair of the Financial Planning Committee in 2004. Catherin Fenselau will vacate the Chair-Elect position and rise to Chair in October 2001. Bruce Chase will become Immediate Past Chair.

#### **Secretary**

The Secretary manages the routine business of the division, provides information to the ACS offices, makes arrangements and assembles the agenda for the **Executive Committee meetings** at each national ACS meeting, and handles the divisional elections. The formal term of office is two years, January 1, 2002 to December 31, 2003, but the Secretary usually runs unopposed for a second term, making it a four-year commitment. The current Secretary, John Richardson, will end his first term on December 31, 2001 and will stand unopposed for a second term on the ballot.

#### Councilor (1) and Alternate Councilor (1)

The Councilors are our representatives to the national ACS organization. They attend the ACS Council meeting, vote for

us on issues, and become involved in national ACS committees. Alternate Councilors serve in place of absent Councilors. The term of office is three years, January 1, 2002 to December 31, 2004. The retiring councilor is Sally Stafford. The retiring alternate councilor is Mark Wightman.

Please send nominations by April 1, 2001, to the Chair of the Nominations Committee:

Theodore R. Williams Department of Chemistry College of Wooster Wooster, Ohio 44691 (330) 263-2115 FAX (330) 263-2386 williams@acs.wooster.edu

You will receive an election ballot in June.

## Division of Analytical Chemistry Awards

Solicitation of Nominations. Deadline for Submission: September 1, 2001

We are seeking nominations for the following awards administered by the Division:

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

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

\*ACS Division of Analytical Chemistry Award in Spectrochemical Analysis Sponsored by the Perkin-Elmer Corporation.

\*ACS Division of Analytical Chemistry Award in Electrochemistry.

\*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.

Specific information on each of these awards follows the general information on eligibility, deadlines, and nominating procedures.

These rules are extracted and paraphrased from the complete

guidelines, which are available from the Division Chairman. However, they are sufficient to prepare a proper nomination for consideration by the appropriate award jury.

#### **Eligibility**

Eligibility is not restricted to members of the Division of Analytical Chemistry. Nominees for the Award for Excellence in Teaching must, however, have been a full-time faculty member at a college or university in the United States or Canada for 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.

#### **Deadlines**

All nominations must be sent to the chair of the Division and must be received by September 1. The chair of the Division shall in turn transmit the nominations to the chairpersons of the appropriate juries.

For the 2001 Awards, nominations shall be sent no later than September 1, 2001 to:

Bruce Chase DuPont Experimental Station P.O. Box 80328 Wilmington, DE 19880-0328 (302) 695 4434 FAX (302) 695 8412

bruce.chase@usa.dupont.com

For more information, please consult the DAC web site at: www.acs-analytical.duq.edu/awdguide.htm

# New ACS Graduate Placement Examination in Analytical Chemistry

A new placement exam in analytical chemistry (2002 Graduate Placement Examination in Analytical Chemistry – Preliminary Trial Version) for entering graduate students has been developed by a committee consisting of Barry Lavine (Chair/ Clarkson University) Anna Brajter Toth, (University of Florida), Charles Martin (University of Florida), Bill Cooper (Florida State University), Tom Vickers (Florida State University), Peter Griffiths (University of Idaho), R. Von Wandruszka (University of Idaho), Alan Marshall (Florida State University), Richard McCreery (Ohio State University), Mark Meyerhoff (University of Michigan), Rudi Seitz (University of New Hampshire), Isiah Warner (LSU) and Richard Yost (University of Florida).

The exam can be obtained free of charge. Simply contact Professor Dwaine Eubanks (Chemistry Department, Clemson University) and ask him to send you copies of the exam. Dwaine Eubanks can be contacted by telephone (864-656-1394) or email (eubanki@clemson.edu.)

# LC/MS of Biomolecules

Co-sponsored by the Subdivision of Chromatography

The symposium will feature four talks that encompass the coupling of HPLC separations with mass spectrometry for analyses of substances that have traditionally posed difficult challenges for on-line LC/MS. These presentations cover a broad range of HPLC separations, most of which are not commonly used for LC/MS. Rong-Rong Zhu of BASF Bioresearch Corporation will discuss the characterization of intact modified proteins and digests documenting biotinylation and phosphorylation states. Alyson Mitchell of the University of California-Davis will describe coupling of HPLC separations of cocoa polyphenolics based on the degree of oligomerization with electrospray ionization. Dan Jones of the Pennsylvania State University will compare several LC/MS approaches used to char-

acterize phytoplankton based upon analyses of pigments, proteins, and secondary metabolites. Murray Hackett of the University of Washington will discuss development of non-aqueous reversed phase HPLC and capacitive electrospray ionization to the realm of complex mixtures of lipid A molecules and other membrane lipids and proteins.

Symposium Organizer

A. Daniel Jones, Senior Scientist and Director.Department of Chemistry.152 Davey Laboratory.Pennsylvania State University University Park, PA 16802

Phone: (814)865-2494 FAX: (814) 865-3314

E-mail: djones@chem.psu.edu

#### Conference/workshop

"Coupled,
Hyphenated and
Multidimensional
Liquid Chromatographic Procedures
for Separation of
Macromolecules"

Bratislava, Sept.9 to 13, 2001.

Dusan Berek Polymer Institute of the Slovak Academy of Sciences Dubravska cesta 9; 842 36 Bratislava, SLOVAKIA tel.:+421 7 5477 1641, Fax: +421 7 5477 5923 or 5477 7409.

elm:<u>upoldber@savba.sk;</u> home page: <u>http://www.savba.sk.</u>

For further information see our web site:

http://nic.savba.sk/~upoldber/

## Process Analysis Call for Papers

Authors interested in participating in a symposium on Process Analysis at the ACS Fall Meeting (Chicago, Aug 26-30) should contact Dr. Linh Le (LDLE@Dow.Com, 225-353-1750) before April 1st, 2001.

## Free Glossary of Liquid Phase Separations Terminology

Prof. Peter Carr, Department of Chemistry, University of Minnesota and Dr. Ronald E. Majors of Agilent Technologies and Subdivision Secretary have put together a layman's glossary of over 450 terms, definitions, buzz words, slang, and other nomenclature associated with liquid phase column and capillary separation techniques such as HPLC, capillary electrophoresis, and capillary electrochromatography. The terms are ex-

plained in simple language and the glossary should be useful for those just getting started in the use of these separations techniques as well as a review for experienced chromatographers. Division members who would like a free hard copy can contact Peter Carr at <a href="mailto:carr@chem.umn.edu">carr@chem.umn.edu</a> or Ron Majors at ron <a href="mailto:majors@agilent.com">majors@agilent.com</a>.

The glossary appeared in the February, 2001 issue of LC/GC Magazine.

## EUROANALYSIS 12

European Conference on Analytical Chemistry
A Key to Progress in Science, Industry and Human Welfare
8-13 September 2002
Dortmund, Germany

The Division of Analytical Chemistry of the Federation of European Chemical Societies (DAC/FECS) invites you to participate in Euroanalysis 12, 8-13 September 2002, on the campus of Dortmund University.

Euroanalysis is the biennial series of high-level conferences of the FECS Division of Analytical Chemistry as a common forum of the national societies represented in the DAC and the meeting place of the analytical community from academia and industry.

Institute of Analytical Chemistry, TU Dresden.

Conference Secretariat: Gesellschaft Deutscher Chemiker - Euroanalysis -P.O. Box 90 04 40 60444 Frankfurt am Main, Germany.

Phone: +49 69 7917-358 Fax: +49 69 7917-475 Email: tg@gdch.de

To receive further information, www.euroanalysis.de

## Acknowledgements

The Division of Analytical Chemistry appreciates the financial support of our sponsors. During the year 2000 we have received generous contributions from the following sources to support specific programs.

#### **Division Awards:**

Waters Corporation Perkin Elmer Dow Chemical Co. Foundation Dekker Foundation Phillip Morris Companies

#### **Graduate Fellowships**

Eastman Chemical Co.
Eli Lilly and Company
RW Johnson Pharm. Res. Inst.
Procter and Gamble
Dow Chemical Co. Foundation
Perkin Elmer
Merck & Co.
Glaxo Wellcome
Society of Analytical Chemists
of Pittsburgh

#### **Special Symposium:**

American Chemical Society Divisional Activites Committee
Committee on Science, ACS
Thermo Jarrell Ash Corporation
Leeman Labs, Inc.
Micromass
Applied Biosystems
Biosite
National Science Foundation
US Department of Energy

#### **Other Contributors:**

Eastern Analytical Symposium

#### Topics:

- Bioanalytical Chemistry, Genetic Techniques.
- Complex Systems, Environment, Medical Diagnosis.
- Genomics, Proteomics.
- High-throughput Screening, Chemical Imaging.
- Instrumental Aspects, Nanoanalytics, Lab-on-thechip.
- Process Analysis: on-line, inline, at-line.
- New Fields in Analytical Chemistry.
- Analytical Chemistry and Administration.
- Quality, Metrology.
- Art, History.
- Educational Aspects, Analytical Terms.

There will be workshops and symposia. Topics already proposed include Process Analysis, Spectroscopy, Speciation and Quality Assurance.

Chair: Ernst-Heiner Korte ISAS Department Berlin, korte@euroanalysis.de Program Chair: Reiner Salzer

#### Officers of the DAC Executive Committee for 2001

Chair

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rmw@unc.edu



## Piece of cake!

## HOW TO JOIN DAC

Send check payable to the Div. of Analytical Chemistry for the membership class:

#### ACS member \$14 NOT ACS member \$18 Student \$8

(include ACS member number or copy of student i.d. for discount)

Add \$2 for enrollment in the Subdivision of Chromatography and Separations Chemistry



## Include your name & address and mail to

John N. Richardson Dept. Chemistry Shippensburg University Shippensburg, PA 17257 (717) 477-1774 FAX (717) 477-4048 JNRICH@ARK.SHIP.EDU

## DAC Graduate Fellowships

Fellowships for graduate students in analytical chemistry are sponsored by various companies/organizations and are awarded through the ACS Division of Analytical Chemistry. The number of fellowships awarded may vary from year to year, depending on the number of sponsoring companies.

The purposes of these Fellowships are to encourage basic research in the field of analytical chemistry, to promote the growth of analytical chemistry in academic institutions and industry, and to provide recognition of future leaders in the field of analytical chemistry.

The Graduate Fellowship Committee of the ACS Division of Analytical Chemistry, which evaluates the applications and makes the fellowship awards, is comprised of representatives from the sponsoring companies, analytical faculty from undergraduate institutions and scientists from national laboratories.

Both academic-year (\$15,000) and summer (\$5,000) Fellow-ships are available. Most applicants apply for both awards unless mitigating circumstances (previous summer commitments, impending completion of degree requirements, etc.) exist.

www.wabash.edu/ acsgraduatefellowship/ information.htm

## Eastern Analytical Symposium

EAS: Educating Analytical Scientists for Over 40 Years!

The New Atlantic City Convention Center Atlantic City, New Jersey October 1-4, 2001

Nicholas H. Snow 2001 EAS President

In 2001, the Eastern Analytical Symposium celebrates its 40<sup>th</sup> symposium with an outstanding combination of educational and professional activities. As one of our sponsoring organizations, the Division of Analytical Chemistry, and its members, has played many roles in EAS's growth into a premier scientific conference. This year, we continue to strengthen our programs, as we have moved both into a new millennium and into the third city in our 42-year history.

EAS offers the unique combination of an outstanding technical program (over 600 technical presentations in 2000), short courses (35 1 and 2 day short courses offered in 2000), exhibition (305 booths in 2000), work-

shops (15 half-day workshops offered in 2000) and professional and career services through our employment bureau. YOU make the meeting complete, as over 4,100 analytical chemists made the journey to Atlantic City in our inaugural year there. In 2001, we will continue these highquality offerings, and more!

EAS offers a special combination of technical quality, size, convenience and price. Our governing board is composed of over 90 practicing and retired analytical chemists, many of whom are DAC members. These dedicated volunteers work hard throughout the year to ensure that your EAS experience is both enjoyable and profitable.

The New Atlantic City Convention Center provides an unparalleled venue for EAS. The conference rooms, exhibit hall and hotels are new and first-rate. While the trip to EAS is longer for some of us (I, too, live in North Jersey), it still does not require air travel, and the accompanying hassles, for chemists on much of the East Coast. For those of us who

travel farther, Atlantic City is readily accessible from Philadelphia International Airport, and provides a wide array of choices in hotels, activities and restaurants, with prices significantly below those commonly found in larger cities.

I invite all of you to consider attending EAS this fall. Please see our website, http://www.eas.org, e-mail easinfo@aol.com, or call the EAS Hotline at 610-485-4633 for details on attending EAS and on submitting abstracts (deadline is March 31, 2001). During the year (please pardon the construction dust) we will be building the website into your onestop shop for all of your EAS needs, including registration, housing, technical program, short courses, workshops, exhibition. We are happy to have the DAC and its members as part of the EAS family and we hope to see you in Atlantic City this fall!

## Subdivision of Chromatography

## Subdivision Seeks Nominations for New Officers

The Sub-Division of Chromatography and Separations Chemistry is seeking nominations for the office of Chair-Elect and for two members of the Executive Committee. To be considered for nomination, a candidate must be a member in good standing of the Analytical Division as well as the Sub-Division. Chair-Elect serves for two years then automatically succeeds to the Office of Chair. In conjunction with other members of the Executive Committee, one of the primary responsibilities of the Chair-Elect is to organize scientific programs at national ACS meetings. Executive Committee members serve for two years. Both officers and committee

members are expected to participate in yearly sub-Division meetings, provide inputs to the program committee on sponsored symposia at local section, regional and national meetings, and generally work to increase the professional status and contact between scientists interested in chromatography and separations chemistry. Nominations should be sent to past chair Professor Jon Parcher, University Mississippi chifp@olemiss.edu. All nominations must be received by April 1, 2001. Election ballots will be mailed to Sub-Division members by May 15 and the new officers will begin their terms on January 1, 2002.

# Open Meeting of the Subdivision

Open Meeting of the Subdivision of Chromatography and Separation Science Following the Dal Nogare Award Symposium at the 2001 Pittsburgh Conference in New Orleans, Monday, March 5<sup>th</sup>, 2001.

The meeting will take place immediately after the conclusion of the Dal Nogare Symposium in the same room. The Dal Nogare session usually ends around noon. All interested parties are encouraged to attend to discuss the performance, future activity and agenda for the Subdivision in the upcoming year. Items on the agenda may include:

Future Program Planning and

Suggested Symposia.

Cooperative programs with other ACS Divisions with Chromatography Emphasis.

Nominations for Officers and Executive Committee Members Suggested Items for the DAC Newsletter.

New Activities and Initiatives for the Subdivision.

Annual Meeting of the Subdivision.

Assessment of Member Concern, Needs and Opinions.

The meeting should last about an hour. Anyone who is interested for further information can contact Dr. Richard A. Henry, Chair of the Subdivision, at 814-353-2300 or

e-mail: rhenry@psu.edu.

## Subdivision Officer Directory

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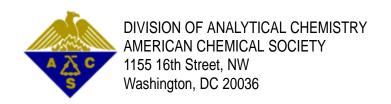
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