NIH Scientist G. Marius Clore, 2010 CSW Hillebrand Award Winner, to speak at March Dinner Meeting

CSW will present the 2010 Hillebrand Award to Dr. G. Marius Clore, Chief of the Protein NMR Section at the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) of the National Institutes of Health, at the dinner meeting on March 10, 2011. Dr. Clore will address the meeting with a seminar entitled, “Exploring Sparsely-Populated States of Macromolecules by Diamagnetic and Paramagnetic NMR Relaxation.” Details of the dinner meeting can be found on page 2.

Dr. G. Marius Clore joined the Laboratory of Chemical Physics at the National Institutes of Health in 1988, and has been Chief of the Protein NMR section since 1991. Prior to joining NIH, Dr. Clore was the Head of the Biological NMR Group at the Max-Planck Institute. He was also on the scientific staff at National Institute of for Medical Research in London, House Surgeon at St. Charles Hospital, London, and House Physician at University College Hospital, London.

Dr. Clore has received many honors, including being an Elected Fellow of the Royal Society of Chemistry (1990), as well as an Elected Fellow of the Washington Academy of Sciences (1991). He is also the recipient of the Distinguished Young Scientist Award of the Maryland Academy of Sciences (1990), NIH Director’s Award (1992), Dupont-Merck Young Investigator Award for the Protein Society (1993). He was elected to the American Academy of Arts and Sciences in 2010.

Dr. Clore received his BS in Biochemistry from University College London, MD from University College Medical School, and Ph.D. in Physical Biochemistry from MRC National Institute for Medical Research.

Dinner meeting information and speaker abstract on page 2

Upcoming IYC Outreach Activity: Rockville Science Day

ACS members, chemistry enthusiasts, and educators are encouraged to help celebrate the International Year of Chemistry (IYC) throughout 2011 by participating in or hosting a special event. Each quarter, we will focus on a specific theme to confirm that chemistry is a worldwide science that impacts all people positively. Water is the common thread connecting these themes:

Water in the Environment (1st Quarter)

The theme for the first quarter is Water in the Environment. We will promote an awareness of water, its sources, and the importance of water purity with its relevance to sustainability. The Celebrating Chemistry newsletter that was specifically developed by the ACS to help celebrate this theme is available via the ACS IYC 2011 website (www.acs.org/iyc2011). We are almost through the first quarter. Did you know that you can easily participate by simply doing your part to protect the environment (and the Chesapeake Bay) by recycling? Also, did you know that the materials that you use around your home to melt ice can have a major impact on the water quality of the bay? Try using more environmentally friendly materials such as sand next time. If you must use “salt”, try to limit the amount that you use such that you limit the amount that will run off after the ice melts. Your plants and sidewalk will love you for this as well as any pets or other animals that walk

Continued on page 4
THE CHEMICAL SOCIETY OF WASHINGTON PRESENTS:
1101st Dinner Meeting
Thursday, March 10, 2011 6:00 p.m. Social Hour (Cash Bar)
Far East Restaurant  7:00 p.m. Dinner
5055 Nicholson Lane  8:00 p.m. Hillebrand Award Ceremony
Rockville, MD 20852  Featured Speaker: Dr. G. Marius Clore,
CSW Hillebrand Award Recipient

COST $25.00 Members & guests, $12.50 Students

Menu includes: Eggrolls, steak on a stick, Far East shrimp, cashew
chicken, beef with asparagus, Szechuan string beans, vegetable delight,
steamed and fried rice, and tofu with pineapple.

Reservations: Make reservations by Monday, March 7, 2011, 12:00
noon, to the CSW office. csw@acs.org or 202-659-2650. Please designate
the names in your party. The public is invited to attend. You may attend
the talk only, but reservations are appreciated. Those who make a
reservation but are unable to attend should send a check for the cost
of their meal to the CSW office.

Directions: From I- 270, take Montrose Road exit east; turn right onto
355, then left on Nicholson Lane. From I-495 outer loop, take Exit 34,
north on 355, then right onto Nicholson Lane. From I-495 inner loop,
take Exit 36, north on Old Georgetown Rd., then right directly onto
Nicholson Lane.

METRO: White Flint station on the red line (Restaurant site is marked
with an “A”, right).

Featured Speaker: Dr. G. Marius Clore, Chief of Protein NMR Section,
NIDDK, NIH
Title: “Exploring Sparsely-Populated States of Macromolecules by
Diamagnetic and Paramagnetic NMR Relaxation”
Abstract: Sparsely-populated states of macromolecules, characterized by
short lifetimes and high free-energies relative to the predominant ground
state, often play a key role in many biological, chemical
and biophysical
processes. We will summarize various
new developments
in paramagnetic
NMR spectroscopy
that permit these
heretofore invisible,
sparsely-populated
states to be
detected,
Continued on page 3...
The College Chemistry Achievement Awards are presented annually by the Chemical Society of Washington to the outstanding seniors majoring in chemistry and biochemistry from each of the area colleges and universities. The following students received awards:

- Sophia Binz, The Catholic University of America
- Megan Buonaiuto, George Washington University
- Matthew F. Carpiniello, Georgetown University
- Svetlana Makarova, George Mason University
- Brian K. McGuire, Georgetown University
- Steven Moss, American University
- Cassandra Ricketts, American University
- Matthew D. Smarte, University of Maryland
- Robert August Swyka, St Mary's College of Maryland
- Libert Youssa-Tientcheu, The University of the District of Columbia

Undergraduates Honored at February Dinner Meeting

Undergraduate Poster Presenters at February Dinner Meeting

characterized, and visualized. In the fast exchange regime (time scale less than ~250-500 ms), the footprint of sparsely-populated states can be observed on paramagnetic relaxation enhancement profiles measured on the resonances of the major species, thereby yielding structural information that is directly related to paramagnetic center-nuclei distances, from which it is possible, under suitable circumstances, to compute a structure or ensemble of structures for the minor species. This will be illustrated with regard to (a) the search process whereby transcription factors locate their specific DNA target site among a sea of non-specific sites, (b) the characterization of encounter complexes in protein-protein interactions, and (c) the visualization of large scale interdomain motions.
through the area.

Alternative Energy (2nd Quarter)
Viable alternative energy sources will be presented as a key aspect of sustainability. The alternative energy focus coincides with Chemists Celebrate Earth Day (CCED) (http://portal.acs.org:80/portal/PublicWebSite/education/outreach/cced/index.htm), to be celebrated on April 22, 2011. The Chemical Society of Washington (CSW) will once again participate in Chemists Celebrate Earth Day (CCED) activities. K-12 students are encouraged to compete in the Illustrated Poem Contests. Participants in grades K-12 will be asked to submit an illustrated poem that incorporates the many sources of alternative energy in celebration of CCED 2011. Details on the requirements for the poem will be available on the ACS website shortly, as well as on the CSW website (www.csw-acs.org). The Celebrating Chemistry newsletter for CCED will be available from the ACS website as well.

Volunteers Needed
CSW, in conjunction with the chemistry department from Montgomery College, Rockville Campus will again participate in Rockville Science Day on Sunday, April 10, 2011 from noon to 5:00 pm. Volunteers from CSW will be providing hands-on activities for children who attend the event as a part of CSW’s participation in CCED. Volunteers will also hand out copies of the Celebrating Chemistry publication for CCED, and various CCED-themed products. If you would like to volunteer for this event, please contact the CSW CCED coordinator, Kim Morehouse (Kim.Morehouse@fda.hhs.gov).

ACS Webinars™
CLICK * WATCH * LEARN * DISCUSS
Learn more and register at www.acswebinars.org

March 10: Branding YOU! Why Marketing Yourself is Critical for Your Chemistry Career
March 17: CSI Reality: Chemistry in the Crime Labs
March 24: Know Your Drugs—A Pharmacology Primer for Chemical and Life Science Professionals
March 31: Advanced Chemistry of Beer and Brewing

SPECTROSCOPIC

SAMPLING SUPPLIES and ACCESSORIES

IR - FTIR
Windows and Reflectance Plates
Liquid-Solid-Gas Accessories
Reflectance Accessories
Reconditioning HATR

NMR - EPR
Sample Tubes 5 to 30mm
Micro Tubes and Capillaries
Innovative New Products
EPR and Raman Sample Tubes

UV - VIS - FL
Quartz and Glass Cells
Fluorescence Cells
Raman Cells
Special Application Cells

View and Download all literature with pricing at www.newera-spectro.com

NEW ERA
CAGE Code: 44ME9 DUNS: 556785657 NEW ERA ENTERPRISES, INC.
1-800-821-4667 Fax: 1-856-697-8727 cs@newera-spectro.com
CSW Career Development Workshop for Chemists:
Experience from the Past and Tools to Build the Future

Have you ever reflected on...

What do you do well?
Is your career on the right path?
Where do you want your career to go?
What do you love to do?
Is your résumé up to date?
How does the current economy affect your job search?

When: Saturday, April 9, 2011
8:15 a.m. to 3:45 p.m.
Where: George Washington University
Harry Harding Auditorium, Room 213
1957 E. Street NW Building
Who: Graduate students, Post docs, Undergraduates, and those seeking a job change

For more details, or to register, please visit the CSW website!
http://csw.sites.acs.org/activities.htm

<table>
<thead>
<tr>
<th>PRELIMINARY PROGRAM</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:15 - 9:00 AM</td>
</tr>
<tr>
<td>9:00 - 9:10 AM</td>
</tr>
<tr>
<td>9:10 - 9:40 AM</td>
</tr>
<tr>
<td>9:40 - 10:00 AM</td>
</tr>
</tbody>
</table>

BOOK PRIZE DRAWING

10:00 - 11:30 AM Panel of Those Who Followed Non-Traditional Career Paths: Richard D. Jordan, Dickinson Wright, PLLC, John Malin, PhD, ACS (Retired); Bahram Moasser, Assistant Professor of Chemistry, Georgetown Univ.; Kathryn Hughes, Program Officer, NRC Board on Chemical Sciences & Technology

BOOK PRIZE DRAWING

11:45 AM - 12:30 PM LUNCH

12:30 PM - 1:45 PM Resume Preparation - Dr. David Harwell, Assistant Director, ACS Office of Career Management and Development

BOOK PRIZE DRAWING

1:45 PM - 3:00 PM Panel of Those Who Followed Traditional Career Paths: Richard G. Weiss, Professor of Chemistry, Georgetown University; Dr. William Koch, United States Pharmacopeia; Nicole Payne, B.S., Chemist, Drug Enforcement Administration; Michael F. Early, Strategic Marketing Manager, Grace Davison Discovery Sciences

3:00 PM - 3:15 PM Evaluation Form

For further information and to register, visit csw.sites.acs.org/activities.htm
Washington Film Premiere: "Carl Djerassi - My Life"
Join us for a screening of the documentary film "Carl Djerassi—My Life," a portrait of the brilliant scientist turned science-in-fiction writer Carl Djerassi. After the screening, Dr. Djerassi, inventor of the first oral contraceptive and author of numerous novels, poetry, and plays, will engage in a conversation with Madeleine Jacobs, Executive Director and CEO of the American Chemical Society.

Before the program, starting at 6PM, meet Dr. Djerassi in our reception room, where he will sign copies of his books.

Thursday, March 10, 2011 | 6:45 PM
This program is free and open to the public and is held at the Carnegie Institution, located at 1530 P Street, NW (corner of 16th and P Streets). Seating is on a "first come-first served" basis. No tickets or reservations are required, however, due to space constraints, seating is limited.

For more information call 202.328.6988, visit http://www.ciw.edu/events/lectures or e-mail: CapitalScienceInfo@ciw.edu

Co-hosted by the Carnegie Institution for Science with the Office of Science & Technology of the Embassy of Austria, the Austrian Cultural Forum Washington, and the American Chemical Society.
BUSINESS DIRECTORY

SERVICES

Micron Analytical Services

COMPLETE MATERIALS CHARACTERIZATION
MORPHOLOGY CHEMISTRY STRUCTURE

SEM/EDXA • EPA/WDXA • XRD XRF • ESCA • AUGER • FTIR • DSC/TGA
Registered with FDA • DEA • GMP/GLP Compliant

3815 Lancaster Pike Wilmington DE. 19805
E-Mail micronanalytical@compuserve.com

Voice 302-998-1184, Fax 302-998-1836
Web Page: www.micronanalytical.com

PROMOTE YOUR PRODUCTS AND SERVICES • ADVERTISE IN THE CAPITAL CHEMIST

The Capital Chemist readership is greater Washington DC’s largest source for chemical and biochemical buyers. The Capital Chemist reaches more than 4,300 readers each month. It has been estimated that these buyers annually purchase more than $215,000,000 of:

- EQUIPMENT
- SUPPLIES
- CONSULTING SERVICES

Placing an advertisement in The Capital Chemist is the lowest cost method of reaching this select audience.

For further information and other options for promoting your company’s products and services visit: www.mboservices.net

Advertisers in this issue:

American Chemical Society........ 7
BUCHI Corp........................... 6
Eastern Analytical Symposium.... 8
Eastern Scientific.................... 7
EMD...................................... 7
Micron Inc............................. 7
New Era Enterprises............... 4
NuMega Resonance Labs.......... 7
50th Eastern Analytical Symposium & Exposition

November 14 - 17, 2011
Garden State Exhibit Center, Somerset, New Jersey

CALL FOR PAPERS
March 1 – April 15, 2011

“Celebrating Innovation in Analysis”

The Eastern Analytical Symposium and Exposition is the second largest conference and exposition for laboratory science in the U.S. dedicated to the needs of analytical chemists and those in the allied sciences. We offer high quality cutting-edge technical sessions and state-of-the-art short courses, workshops and seminars. We invite you to be a part of the program by contributing a paper for oral or poster consideration. Please note that all abstracts must be submitted electronically via the EAS web site at www.EAS.org/submit. The submission deadline is April 15.

Please carefully review the following information:

- Invited speakers must not submit abstracts to EAS until requested
- All contributed abstracts must be submitted through our web site at www.EAS.org/submit. No faxed, e-mailed, or mailed abstracts will be accepted.
- Please note that no one author may submit and present more than two posters.
- All abstracts must be a maximum of 250 words or less.
- All abstracts will be acknowledged via e-mail.
- The title of the presentation and the list of authors that you submit are final, and may not be changed.
- The abstract that you submit will be considered to be your final abstract that will be printed in the abstract book for the 2011 Eastern Analytical Symposium.
- Presenting authors of contributed submissions will be notified in July 2011 of the status of the abstract and its session assignment.

<table>
<thead>
<tr>
<th>AREAS OF INTEREST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioanalysis</td>
</tr>
<tr>
<td>Capillary Electrophoresis</td>
</tr>
<tr>
<td>Chemometrics</td>
</tr>
<tr>
<td>Chromatography</td>
</tr>
<tr>
<td>Conservation Science</td>
</tr>
<tr>
<td>Environmental Analysis</td>
</tr>
<tr>
<td>Forensic Analysis</td>
</tr>
<tr>
<td>Gas Chromatography</td>
</tr>
<tr>
<td>HPLC</td>
</tr>
<tr>
<td>Immunochemistry</td>
</tr>
<tr>
<td>Industrial Hygiene</td>
</tr>
<tr>
<td>Ion Chromatography</td>
</tr>
<tr>
<td>IR Spectroscopy</td>
</tr>
<tr>
<td>Laboratory Automation</td>
</tr>
<tr>
<td>Laboratory Management</td>
</tr>
<tr>
<td>LC/MS</td>
</tr>
<tr>
<td>Mass Spectrometry</td>
</tr>
<tr>
<td>Microchemistry</td>
</tr>
<tr>
<td>Microscopy</td>
</tr>
<tr>
<td>Near Infrared (NIR) Spectroscopy</td>
</tr>
<tr>
<td>NMR Spectroscopy</td>
</tr>
<tr>
<td>Pharmaceutical Analysis</td>
</tr>
<tr>
<td>Process Analytical Science</td>
</tr>
<tr>
<td>Quality by Design</td>
</tr>
<tr>
<td>Quality/Regulatory/Compliance</td>
</tr>
<tr>
<td>Raman Spectroscopy</td>
</tr>
<tr>
<td>Sample Preparation</td>
</tr>
<tr>
<td>Science Education</td>
</tr>
<tr>
<td>Sensors</td>
</tr>
<tr>
<td>Separation Sciences</td>
</tr>
<tr>
<td>Size Exclusion Chromatography</td>
</tr>
<tr>
<td>Solid State Analysis</td>
</tr>
<tr>
<td>Space Analytics</td>
</tr>
<tr>
<td>Supercritical Fluid Chromatography</td>
</tr>
<tr>
<td>Surface Science</td>
</tr>
<tr>
<td>Very High Pressure LC/Ultra High Pressure LC</td>
</tr>
<tr>
<td>Vibrational Spectroscopy</td>
</tr>
</tbody>
</table>

Contact information:
EAS Hotline 732-449-2280
EAS Faxline 732-612-1123
EAS E-mail askeas@eas.org

Eastern Analytical Symposium & Exposition, Inc.
P.O. Box 185
Spring Lake, NJ 07762

www.EAS.org
On Friday, April 8, 2011 the Retired Chemists Group will visit Washington’s Newseum. Come join us for lunch, docent-led tours, and free time to explore the Newseum’s unique facilities. Pre-paid admission for RCG is $10 per person. Individuals may purchase lunch in the Newseum’s excellent Wolfgang Puck cafeteria. Admission tickets will be provided at 11:30AM in the Newseum lobby. To make a reservation, please send your name and telephone number (or email address), plus the names of all guests and a check for $10 per person payable to the Retired Chemists Group, to Dr. John Malin. Address: 705 N. Edison St., Arlington, VA 22203-1432. Checks must be received by March 23 to obtain the discounted admission rate.

Directions: The Newseum is located at 555 Pennsylvania Avenue, NW. The Archives-Navy Memorial Metro stop is nearby.

Encourage a Future Scientist: Judge a Science Fair!

The Chemical Society of Washington (CSW) encourages its members to serve as judges for high school science fairs held in the DC area. Events are late February through April. Serving as a judge is a great way to benefit the community and encourage young scientists.

Upcoming Dates:
- Northern Virginia-March 5
- Loudon County-March 17
- Fairfax County-March 19
- Montgomery County-March 19
- Prince Georges’ Area-March 26
- DC-April 1

Please visit csw.sites.acs.org/activities.htm for more information.

SAVE THE DATE!
ACS Leadership Course, “Leading Change”

The Chemical Society of Washington will be sponsoring an ACS Leadership Course, “Leading Change,” on Saturday, May 7th. Stay tuned to future issues of the Capital Chemist to learn how to take advantage of this great opportunity.

If you are interested in attending, please send an email to csw@acs.org.

CSW Calendar of Events

March Dinner Meeting
Thursday, March 10, 2011
Location: Far East Restaurant
Speaker: Dr. G. Marius Clore, NIH

Retired Chemists Luncheon
April 8, 2011
Location: Newseum

CSW Career Development Workshop
April 9, 2011
George Washington University

April Dinner Meeting
Thursday, April 14, 2011
Location: TBD
Speaker: Dr. Matthew S. Platz, NSF

CSW Leadership Course
May 7, 2011
Location: TBD

MARM 2011
May 21-24, 2011
University of Maryland, College Park
www.marmacs.org

Save the Date!
42nd Annual MARM 2011
MAY 21-24
MIDDLE ATLANTIC REGIONAL MEETING
SPONSORED BY THE
Chemical Society of Washington (CSW)

Look for more information in next month’s Capital Chemist