

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

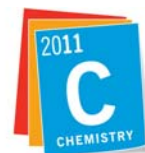
ACS members, chemistry enthusiasts, and educators are encouraged to help celebrate the International Year of Chemistry (IYC) throughout 2011 by participating in or hosting a special event. Each quarter, we will focus on a specific theme to confirm that chemistry is a worldwide science that impacts all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



International Year of
CHEMISTRY
2011

The Capital Chemist™



*A Publication of the
Chemical Society of Washington
Section of the American Chemical
Society*

Volume 61 Number 3 March 2011

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Claims for missing issues should be sent to CSW at the above address. Member change of address should be sent to ACS, PO Box 3337, Columbus, OH 43210; phone 800-333-9511; e-mail: service@acs.org; or edit member profile online at www.acs.org.

GENERAL: The Capital Chemist (ISSN 0411-0080) is published monthly from January to December (except June, July, and August) by the Chemical Society of Washington, 1155 16th Street, NW, Washington, DC 20036. Periodical Postage is paid at Washington, DC and additional mailing offices. Subscription price is included in all membership fees; non-member subscription is \$10.00 per year.

ISSN 0411-0080

POSTMASTER: Send address changes to The Capital Chemist, 1155 16th Street, NW, Washington, DC 20036.

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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.

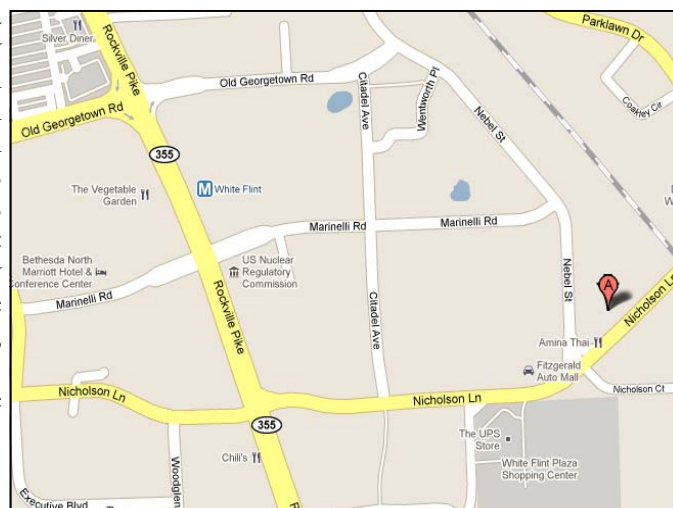
METRO: White Flint station on the red line (Restaurant site is marked with an "A", right.).

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...



Undergraduates Honored at February Dinner Meeting

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. Carpinello, 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



Awardees, from left to right: Sophia Binz, Matthew F. Carpinello, Brian K. McGuire, Steven Moss, Cassandra Ricketts, Matthew D. Smarte, Robert August Swyka, and Libert Youssa-Tientcheu. Not present; Megan Buonaiuto and Svetlana Makarova.

Undergraduate Poster Presenters at February Dinner Meeting



Poster Presenters, from left to right: George Ho, Jullian Neifeld, John Jubar, Mike Doyle (CSW President), Mack W. Bell, and Matthew Smarte

Abstract cont. from page 2

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.

LYC cont. from page 1

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-acis.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).

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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>

PRELIMINARY PROGRAM

8:15 - 9:00 AM Registration; Continental Breakfast

9:00 - 9:10 AM Welcome

9:10 - 9:40 AM Dr. Dennis Chamot, Member-at-Large, ACS Board of Directors

9:40 - 10:00 AM Dr. Nirmala Kannankutty, National Science Foundation

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

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

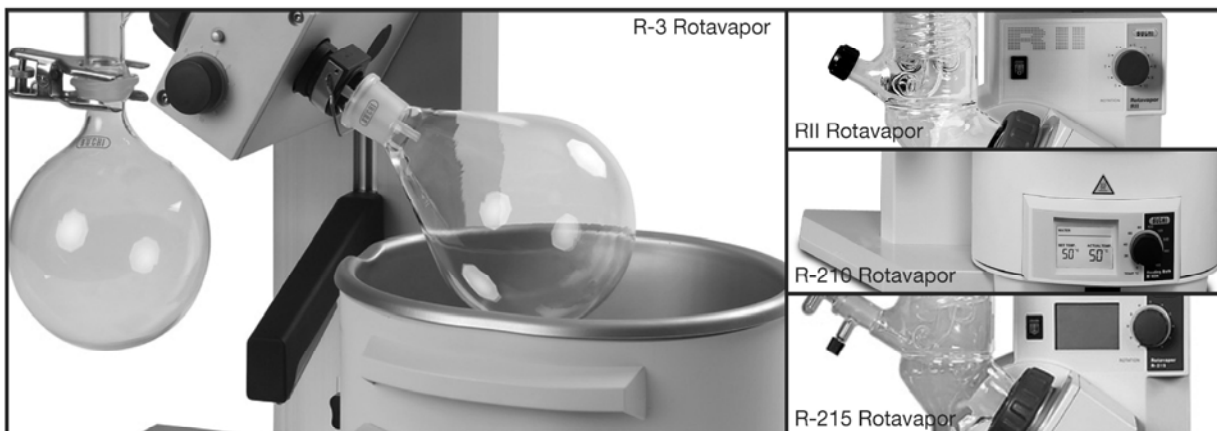
BOOK PRIZE DRAWING

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

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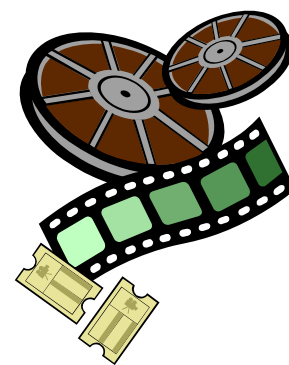
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Washington Film Premiere: "Carl Djerassi - My Life"

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.

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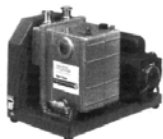
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Please carefully review the following information:

- Invited speakers must **not** submit abstracts to EAS until requested
- All contributed abstracts must be submitted through our web site at www.EAS.org/asubmit. 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.

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69th Retired Chemists Group Luncheon at Newseum on April 8

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. Admis-

sion 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

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Save the Date!



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Look for more
information in next
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