



ACS NEWS

The biannual newsletter for the American Chemical Society Division of Fluorine Chemistry

MESSAGE FROM THE CHAIR

Greetings from Montpellier, France! I just happen to be on sabbatical during the time of this Fall newsletter rather than being in Canada. I would like to remind and continue challenging the Fluorine Division on two items: 1) Connect with a new person this year. It is always easier to connect with old friends and colleagues at a conference, but take the time to connect with one new person and introduce them to your circle of colleagues. 2) Challenge each other in your research. Find ways to build new research bridges and to encourage each other. I have found being in France for my sabbatical year has provided me ample opportunities to make new connections and to build collaborative research projects that not only enhance my own research, but provides research students new insight into the world of fluorine chemistry.

There are several important items I would like to highlight in this newsletter. First, Honeywell's term of commitment for sponsoring the ACS Award for Creative Work in Fluorine Chemistry has come to a close. **We would like to thank Honeywell for their years of contribution.** We have identified a new potential sponsor and are working through the appropriate procedures with ACS. Once things are finalized we will communicate the new sponsor for this important ACS award. Second, the description of the Moissan Summer Undergraduate Research

Fellowship (SURF) is contained within this newsletter. The deadline has been modified from previous years. **The NEW deadline for 2014 Moissan SURF is January 31, 2014** (<http://fluorine.sites.acs.org>). Thirdly, the division has approved the electronic-voting process for filling positions in the division. In addition, the following people have been voted-in to serve the division starting January 1, 2014. I would like to welcome **Sebastian Riedel, Petr Beier, Jean-Francois Paquin, and Michael Brimeyer** (Executive Committee members at large). I would also like to welcome those who are certainly not new to the division but have provided much support to this division over the years and are willing to serve in areas of important need. **Viacheslave Petrov** (vice-chair/program), **David Dixon** (councilor) and **Joseph Thrasher** (alternative councilor). As a reminder David Dixon and Joseph Thrasher served in the interim capacity in 2013. Finally, the **next organized fluorine symposium will be held in Dallas, Texas, March 16-20, 2014** at the 247th ACS National Meeting & Exposition.

HIGHLIGHTS: awards announcements or awards received by our fluorine division members. 2013 ACS Award for Research at an Undergraduate Institution, **Bert E. Holmes**; 2013 ACS Fellows **Gary J. Schobilgen, David A. Dixon, and Robert L. Soulen**, DuPont's "The International Young Talent Award in Fluorine Chemistry",

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VICE-CHAIR MEMBERSHIP REPORT

As of August 31st, 2013, there were 582 members of the fluorine division. This is four less members than in the Spring 2013 Newsletter, and includes the balance between departing members and new members.

THE BREAKDOWN IS AS FOLLOWS:

MEMBER TYPE

GROUP	COUNT	%
Division Affiliate	21	3.61
Emeritus Member	51	8.76
Regular Member	426	73.20
Regular Student Member	43	7.39
Retired Member	19	3.26
Society Affiliate	4	0.69
Student Member – Undergrad	18	3.09
TOTAL	582	100

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Sebastian Reidel; 2012 Moissan Prize, **Alain Tressaud**; and ACS Award for Creative Work in Fluorine Chemistry for 2014, **Teruo Umemoto**.

We would like to welcome these new members to the Fluorine Division: **Sydney Ally, Maria Marquez and Carl Thaemlitz**.

If you have concerns or questions regarding the Fluorine Division, please send me an e-mail. If you have new ideas on how to improve our division, do the same. I hope you will have a productive season of research. Thank you to all who faithfully serve. ■

CHADRON MARK FRIESEN, *Chair 2013, USA*

VICE-CHAIR **PROGRAMS REPORT**

The Division of Fluorine Chemistry will have its EC meeting in Dallas during the 247th ACS National Meeting and will, furthermore, host two symposia and a poster session. It is a pleasure to recognize Bert E. Holmes, who has presented his research in our Division in past years, in an award symposium that is co-sponsored by the Division of Physical Chemistry. A second symposium in Dallas will highlight current developments and trends in industrial fluorine chemistry.

During the Fall 2014 ACS National Meeting in San Francisco, we will honor Teruo Umemoto, the 2014 winner of the Award for Creative Work in Fluorine Chemistry with an award symposium. In addition, a symposium on the interface of fundamental and applied fluorine chemistry will honor Gary J. Schrobilgen's contributions to the field.

Please note that Viacheslav A. Petrov will take over as the division's program chair in 2014.

247TH ACS NATIONAL MEETING IN DALLAS (TX), MARCH 16-20, 2014: EC meeting • ACS Award for Research at Undergraduate Institutions: Symposium in Honor of Bert E. Holmes (*organizers: William R. Dolbier; Thomas J. Wenzel*) • Current topics in Industrial Fluorine Chemistry (*organizer: Robert G. Syvret*) • Poster Session

248TH ACS NATIONAL MEETING IN SAN FRANCISCO (CA), AUGUST 10-14, 2014: ACS Award for Creative Work in Fluorine Chemistry: Symposium in Honor of Teruo Umemoto (*organizers: TBA*) • Exploring the Frontiers of Fundamental and Applied Fluorine Chemistry: a Symposium in Honor of Gary J. Schrobilgen (*organizers: Michael Gerken, Karsten Koppe, Kazu Matsumoto, Sebastian Riedel, Robert G. Syvret*) ■

For more information visit: <http://fluorine.sites.acs.org/meetings.htm>

VICE-CHAIR *Continued from p. 1* **MEMBERSHIP REPORT**

Please join me in welcoming the newest members: **Sydney Ally, Maria Marquez and Carl Thaemlitz**.

We continue to encourage current members to recruit students, postdocs, and early career fluorine chemists to join. Keep in mind when recruiting new members that there is no fee for the first year of membership in the Division, and after the first year the dues are quite modest (\$10 for ACS members and \$17 for non-members).

Our Division is in the process of moving to electronic voting instead of using paper ballots. This makes having accurate email addresses for every member a priority. I have been trying to reconcile the listed email addresses in the membership directory with those that bounce back as errors. If your preferred email address changes, please update it either by updating the information in your acs.org account, or send me an email and I'll update it.

Thank you all for your efforts on behalf of the Division! If you have suggestions for strategies to maintain the members we have and/or bring in new members, please forward them to Chris Junk (christopher.p.junk@dupont.com) for consideration by the Executive Committee.

I hope to see many of you at the spring 2014 ACS meeting in Dallas! ■

INTERNATIONAL MEETINGS OF INTEREST FOR MEMBERS OF THE ACS FLUORINE DIVISION

BORDEAUX FLUORINE DAYS, BORDEAUX, FRANCE, JULY 6-10, 2014 The 4th International Symposium on Organofluorine Compounds in Biomedical, Organic Materials and Agriculture Sciences ("Bordeaux Fluorine Days"), will be held in Bordeaux, France, from July 6-10, 2014. This symposium follows the successful editions held in Perugia, Italy (2001 and 2010) and Valencia, Spain (2012). All pertinent information regarding this meeting can be found on the webpage (<http://bordeauxfluorinedays.ism.u-bordeaux1.fr/>).

21TH INTERNATIONAL SYMPOSIUM ON FLUORINE CHEMISTRY, CERNOBBIO, COMO, ITALY, AUGUST 23-28, 2015 Registration for this symposium will open in the Fall of 2014 Please refer to the webpage (<http://www.fluorine-como2015.eu/>) for more information.

18TH EUROPEAN SYMPOSIUM IN FLUORINE CHEMISTRY, KIEF, UKRAINE, 2016

22TH INTERNATIONAL SYMPOSIUM ON FLUORINE CHEMISTRY, LONDON, UK, 2018 ■

The fiscal state of the Division of Fluorine Chemistry continues to be very strong thanks mostly to strong fundraising efforts for Fluorine Division sponsored symposia. The Table below provides a snapshot view of the Division's assets as of 30 September 2013 and the comparative numbers for a year prior, 30 September 2012.

ASSETS (as of September 30, 2013)

	(\$ as of 30 September 2012)	(\$ as of 30 September 2013)
WELLS FARGO BANK ACCOUNT	\$18,824	\$28,488
AMERIPRISE FINANCIAL SPS ADVANTAGE ACCOUNTS:		
Moissan SURF Fund	\$76,186	\$88,333
Long-term Investment Account	\$137,383	\$143,144
TOTAL ASSETS	\$232,394	\$259,965
Percent change		+11.9%

The Division's total assets have increased approximately 11.9% over the course of the 12 month period ending September 30, 2013. This increase is mostly due to an appreciation of investment assets as well as significant corporate donations for the 21st Winter Fluorine Conference.

FINANCIAL HIGHLIGHTS FOR THE DIVISION FOR FISCAL YEAR 2013 INCLUDE:

- > The Division awarded 1 Moissan Summer Undergraduate Research Fellowship in the amount of \$3,500 to Cortney N. von Hahmann who worked for Professor David O'Hagan (University of St. Andrews, Scotland).
- > The Division provided \$6,000 in financial support to the Fluorine Division Symposium in honor of Professor Ojima which was held at the Spring ACS National Meeting in New Orleans.

OUTLOOK FOR 2014:

- > The Fluorine Division will sponsor and provide financial support for both ACS National Meetings in 2014. The spring meeting will be in Dallas, TX and the Fall meeting in San Francisco, CA. Currently \$18,000 is budgeted for ACS National Meeting support in 2014.
- > At the 21st Winter Fluorine Conference meeting of the Executive Committee of the Fluorine Division, the Executive Committee approved an increased amount for the Moissan SURF Awards for 2014. In 2014, three (3) Moissan SURF Awards will be available for up to \$5,000 each (\$4,000 student salary + up to \$1,000 max laboratory supplies). ■

REPORT OF THE PASSING OF PROF. NOBUATSU WATANABE (1922-2013)

Prof. Nobuatsu Watanabe, an emeritus professor of Kyoto University, died on July 28, 2013, at age 91. He graduated in 1946 from the Department of Industrial Chemistry, Faculty of Engineering, Kyoto Imperial University. He then continued electrochemical research there and received a Doctor of Engineering Degree in 1957. He was appointed an associate professor of the Faculty in 1958, was promoted to full professor in 1966, and retired in 1986.

Prof. Watanabe was known internationally for his leading research in the field of fluorine chemistry. His research areas included molten salt electrochemistry, inorganic fluorine chemistry and graphite chemistry. His acclaimed achievements include explaining the "anode effect" observed during electrolysis of molten fluorides, and pioneering the use of graphite fluoride as cathode materials for primary lithium batteries.

He organized the 8th International Symposium on Fluorine Chemistry in Kyoto in 1976. He also established the 155th Committee on Fluorine Chemistry, Japan Society for the Promotion of Science and served as its first chairperson from 1990 to 1994.

Prof. Watanabe had numerous friends and associates in fluorine chemistry societies throughout the world. His was known not only for research accomplishments but also for his gentle and friendly character. He eagerly fostered younger generations in academic and industrial positions and helped generate a strong foundation for inorganic fluorine chemistry in Japan. ■

RIKA HAGIWARA, Kyoto University, Japan

AMERICAN CHEMICAL SOCIETY 246TH ACS NATIONAL MEETING Indianapolis, Indiana • September 8-12, 2013

ELECTION RESULTS:

1. The Council elected Janet L. Bryant, Dee Ann Casteel, Amber S. Hinkle, Wayne E. Jones, Jr., and V. Michael Mautino to the **Committee on Committees** for the 2014-2016 term.
2. The Council elected Harmon B. Abrahamson, Judith H. Cohen, Alan M. Ehrlich, and Angela K. Wilson to the **Council Policy Committee** for the 2014-2016 term.
3. The Council elected Lisa M. Balbes, Jeannette E. Brown, Martha L. Casey, D. Richard Cobb, and Lissa Dulany to the **Committee on Nominations and Elections** for the 2014-2016 term.

The candidates for the fall 2013 ACS national election were announced as follows:

CANDIDATES FOR PRESIDENT-ELECT, 2014

- Dr. G. Bryan Balazs, Associate Program Leader, Lawrence Livermore National Lab, Livermore, CA
- Dr. Charles E. Kolb, Jr., President and CEO, Aerodyne Research Inc., Billerica, MA
- Dr. Diane Grob Schmidt, Section Head R&D, The Procter & Gamble Company, Cincinnati, OH

CANDIDATES FOR DIRECTORS-AT-LARGE, 2014-2016

(two will be elected)

- Dr. Susan B. Butts, Independent Consultant, Susan Butts Consulting, Midland, MI
- Dr. Thom H. Dunning, Jr., Director, National Center for Supercomputing Applications and Professor, Distinguished Chair for Research, University of Illinois at Urbana-Champaign, Urbana, IL
- Dr. Dorothy J. Phillips, Retired, Waters Corporation, Milford, MA
- Dr. Kathleen M. Schulz, President, Business Results, Inc., Albuquerque, NM

CANDIDATES FOR DISTRICT II DIRECTOR, 2014-2016

- Dr. George M. Bodner, Arthur Kelly Distinguished Professor of Chemistry Education and Engineering, Purdue University, West Lafayette, IN
- Dr. Alan A. Hazari, Director of Chemistry Labs and Lecturer, University of Tennessee, Knoxville, TN

CANDIDATES FOR DISTRICT IV DIRECTOR, 2014-2016

- Dr. Rigoberto Hernandez, Chemistry and Biochemistry, Georgia Institute of Technology, Atlanta, GA
- Dr. Larry K. Krannich, Professor Emeritus of Chemistry, University of Alabama, Birmingham, AL

COMMITTEE REVIEWS

The Council voted to continue the joint Board-Council Committee on International Activities and the Council Other Committee on Nomenclature, Terminology and Symbols.

REALIGNMENT OF ELECTORAL DISTRICTS

ACS Bylaws require that the six electoral districts – from which six directors are elected to the ACS Board of Directors – be balanced in their total member populations. The Council voted to approve a proposal by the Committee on Nominations and Elections to realign these districts. The realignment meets the specified criteria for redistricting as required by Bylaw V, Section 4a and brings all six districts within permissible population range. This change takes place in 2014 and does not affect the 2013 national ACS elections.

DIVISIONS

After much debate, a proposed name change for the Division of Colloid and Surface Chemistry to the Division of Colloids, Surfaces, and Nanomaterials was defeated by the Council in a close vote.

RELEVANT ACTIONS OF THE BOARD OF DIRECTORS

On the recommendation of the Committee on Budget and Finance (B&F), the Board voted to approve an advance member registration fee of \$380 for national meetings held in 2014. The Board also voted to reauthorize funding in next year's proposed budget for the ACS International Center, and the ACS Entrepreneurial Initiative, and to authorize funding for a new initiative, the National Association of Chemistry Teachers (NACT). This association will be an ACS program to provide K-12 teachers a professional home. Through NACT, they will have access to specialized resources and the broader ACS community.

The Board confirmed the recommendation of the ACS Executive Director/CEO of the new President of Chemical Abstracts Service (CAS). He is Manuel (Manny) Guzman, most recently Executive Vice President of Learning and Research Solutions of Cengage Learning. Mr. Guzman succeeds Robert J. Massie, who is retiring after leading CAS with great distinction and success for 21 years and is retiring in March 2014. Mr. Guzman will begin September 30. Mr. Massie will assist in the transition when he returns from medical leave. ■

2014 MOISSAN SUMMER UNDERGRADUATE RESEARCH FELLOWSHIP IN FLUORINE CHEMISTRY



THE AMERICAN CHEMICAL SOCIETY, DIVISION OF FLUORINE CHEMISTRY is committed to continuing its sponsorship of undergraduate research and actively encourages the submission of appropriate proposals for research to be conducted during the summer of 2014. This program is intended to encourage an interest in fluorine chemistry among prospective graduate students. The program will provide funds for a student's summer salary and will be awarded directly to faculty members conducting research in any area of fluorine chemistry at colleges or universities on the basis of competitively judged applications. The awards for 2014 are currently \$5,000 (\$4000 salary + up to \$1000 chemicals/supplies) for a ten-week program. In addition, a limited stipend will be available for the student to present his/her research results at an ACS sponsored meeting. Research expenses in connection with this program will be the responsibility of the faculty member or his/her department or institution. The number of awards to be made will be dependent upon the funds available. Applications for funding under this program may be submitted by a faculty member conducting research in fluorine chemistry. The application should be no longer than five pages and should outline the specific research to be undertaken by the student, should present reasons for anticipating progress by the student during the allotted time, and should suggest how the program might encourage the student to pursue graduate work in fluorine chemistry. All applications must state that the faculty member has adequate facilities and sufficient additional funds to cover research expenses for the proposed research program, and must be signed by the applicant. To be considered for an award in 2014, the Division Chair must receive an application by January 31, 2014.

The electronic submission should be in the form of a PDF document and sent to:
chad.friesen@twu.ca

No more than one award will be provided to an individual applicant per year. Applications for funding under this program will be judged by a committee consisting of the Division Chair, one academic member and one industrial member of the Division of Fluorine Chemistry and one member-at-large of the Fluorine Division. The awards for 2014 will be announced in the Spring 2014 Newsletter of the Division and the award recipients will be notified prior to this by mail or telephone. It is anticipated that students in this program will have completed the equivalent of three years of a chemistry major's program, although outstanding students with less academic experience can also be considered. Faculty members will be urged to consider students from institutions other than their own and especially from schools that provide limited opportunities for undergraduate research. However, selection of a student for participation in this program will be at the sole discretion of the faculty member. The selection process should be completed by March 1, 2014. Brief reports (two to three pages) to the Division Chair are expected from the faculty member and student by October 1, 2014. The faculty report should include a summary of technical accomplishments, skills realized by the student, perceived interest by the student in graduate work, and the perceived success or failure of this program in encouraging interest in fluorine chemistry by the student. The student report should include a summary of technical accomplishments and an evaluation of the influence of the award program in his/her decision to consider graduate work in chemistry or fluorine chemistry. ■

AMERICAN CHEMICAL SOCIETY
DIVISION OF FLUORINE CHEMISTRY

- NEW MEMBERSHIP APPLICATION
 RENEWAL
 CHANGE OF ADDRESS

Name: (PROF. / DR. / MR. / MS.) _____

Employer: _____

Address: _____

Business Phone: _____ Fax: _____

Home Phone: _____ E-mail: _____

ALL OF THE ABOVE INFORMATION WILL BE INCLUDED IN THE DIVISION'S DIRECTORY, WHICH IS SENT TO ALL MEMBERS IF YOU OPT-IN. PLEASE CHECK ONE BELOW:

- I AGREE TO HAVE MY INFORMATION PUBLISHED IN THE FLUORINE DIVISION MEMBERSHIP DIRECTORY.
 I DO NOT CHOOSE TO HAVE MY INFORMATION PUBLISHED IN THE FLUORINE DIVISION MEMBERSHIP DIRECTORY.

CURRENT MEMBER OF ACS? YES NO

IF YES, MEMBERSHIP NUMBER: _____

NEW MEMBERS OF THE FLUORINE DIVISION WILL HAVE THEIR DUES WAIVED FOR THE FIRST YEAR ONLY. THE RENEWAL DUES FOR 2014 ARE \$10.00 FOR ACS MEMBERS AND \$17.00 FOR NON-ACS MEMBERS (FOREIGN MEMBERS: PLEASE MAKE SURE THAT YOUR CHECK IS IN U.S. DOLLARS DRAWN ON A U. S. BANK.) TO MAKE A PAYMENT BY CREDIT CARD PLEASE CONTACT THE TREASURER, BOB SYVRET, AT SYVRETRG@AOL.COM

Dues Enclosed: \$ _____

PLEASE SEND FORM TO:
Christopher Junk
DuPont Central Research & Development
Experimental Station
Building E500, Room 2604B
Wilmington, DE 19880
USA

Preferred method of return is electronic to Christopher Junk: Christopher.PJunk@usa.dupont.com



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THE BIENNIAL
NEWSLETTER FOR
THE AMERICAN
CHEMICAL SOCIETY
DIV. OF FLUORINE
CHEMISTRY

2014 Individual Subscription rate for the Journal of Fluorine Chemistry (Elsevier Publishing) is \$222 for ACS members.

For further information please contact Natalie Steffen by email at n.steffen@elsevier.com.

2013 EXECUTIVE COMMITTEE

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