

DIVISION OF FLUORINE CHEMISTRY

AMERICAN CHEMICAL SOCIETY

Spring Newsletter

June 2006

Message from the Chair

Greetings from the crossroads of America and the home of the Boilermakers! I would like to welcome our newest members of the Executive Committee. **Vadim Soloshonok** has joined us as our Vice-Chair/Membership. I also welcome back **Bill Wilson** and **Bill Dolbier** to the Executive Committee. We say goodbye and thanks to our outgoing Executive Committee member **Bruce Smart**. **Bob Syvret** continues as our Treasurer. Special thanks to **Gary Schrobilgen**, Immediate Past Chair of the Fluorine Division, for his considerable contributions over the past year as Division Chair and as Vice-Chair/Secretary for the previous three years.

We had a successful symposium in honor of Professor **Boris Žemva** (Jožef Stefan Institute, Ljubljana, Slovenia), who received the 2006 ACS Award for Creative Work in Fluorine Chemistry, during the Spring ACS National Meeting in Atlanta. A special issue of the *Journal of Fluorine Chemistry* honoring Boris Žemva and his achievements will appear in 2006. I wish to thank **Gary Schrobilgen** and **Hélène P.A. Mercier** for organizing this symposium.

The Annual General Business Meeting of the Division took place during the National Meeting in Atlanta to approve the Treasurer's report and a slate of candidates for election to the Division's Executive Committee to be held next Fall. I would like to thank **Bob Syvret** for keeping the Division in a sound fiscal state.

The Fluorine Division is proud to sponsor the Moissan Summer Undergraduate Research Fellowship every year; the call for the fellowships to be tenured in 2007 will appear in the Fall 2006 Newsletter, *Chemical and Engineering News*, and the *Journal of Fluorine Chemistry*. The awardees this year are: **Paul A. Deck** (Virginia Tech), **David. M. Lemal** (Dartmouth College), **Jack Passmore** (University of New Brunswick, Canada), and **Paul Chirik** (Cornell). I am happy to inform Division members that the

Executive Committee of the Division has approved a motion to increase the Moissan Fellowship from the current student stipend of \$2,500 to \$3,500, effective 2007.

To maintain the current number of fellowships at the increased stipend level, we need to campaign aggressively to increase the **Moissan Summer Undergraduate Research Fellowship in Fluorine Chemistry Fund**. I urge the members of the Division to support the current donation drive to reach the goal of \$150,000 (see Treasurer Report). This fund and its associated fellowship program are administered by the Fluorine Division, and it is our objective to establish a self-sustaining investment pool from which Moissan Summer Undergraduate Fellowships can be provided. Currently, up to four Moissan Fellowships per annum are provided from the Division's operating account. We hope that you and/or your organization will find the means to contribute to this important outreach program of your Division and equally important investment in the future of fluorine chemistry. Contributions should be directed to the Fluorine Division's Treasurer, **Bob Syvret**. Please visit the Fluorine Division website for details.

The Fluorine Division website continues to be an extremely useful source for all things pertaining to Fluorine Chemistry. We thank **Phil Henderson**, the site's webmaster, for the considerable effort he has expended in maintaining our website. The website contains, among other items, past newsletters, annual reports to the ACS, listings of officers, membership information and upcoming meetings, programs, and abstracts for the 17th Winter Fluorine Conference, and the new Fluorine Division Bylaws and Executive Committee Operations Manual. Check it out if you have not done so recently (<http://membership.acs.org/F/FLUO>).

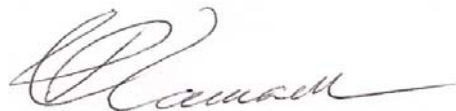
Fluorine chemistry was spotlighted in a recent cover story, "**Fabulous Fluorine**" in *Chemical and Engineering News* (June 5, 2006, pp. 15–24 & 27–32) by Ann M. Thayer. The article provides an extensive review of modern methods for selective introduction of fluorine and fluorinated groups into organic molecules, with special emphasis on biologically active compounds.

As the past Vice-Chair/Membership, it is still a priority of mine to increase the membership of the Division, and I ask that each current Division member try to recruit at least one new member this year. Membership application forms may be obtained from the Division's website. Please send completed membership forms to Professor **Vadim Soloshonok**. Remember, the first year of membership in the Division is free!

On behalf of the Division, I also extend congratulations to our Vice-Chair/Programs, Professor **Surya Prakash**, who received the American Chemical Society's George A. Olah Award for Hydrocarbon or Petroleum Chemistry at the Spring ACS National Meeting in Atlanta. We wish to continue to recognize the awards that our members receive, as part of a continuing department in our newsletters. Please let the Secretary of the Fluorine Division or me know when you or a member colleague receive an award or other form of recognition, so that we can let our members know of the honor. We would also like to acknowledge new faculty appointments in fluorine chemistry in our newsletters, so please let us know of those, as well.

Finally, I would like to mention that as of January 1, 2006, Professor **Bill Dolbier** has assumed the role of Regional Co-Editor for the Americas of the *Journal of Fluorine Chemistry*. Bill replaces **Bruce Smart**, who served in this capacity for nine years.

If there are concerns or questions that you have regarding the Fluorine Division, please send me an e-mail. If there are items that you would like to have considered for inclusion in the *Newsletter*, please do the same. The 2006 Fall ACS National Meeting in San Francisco will have a Fluorine Chemistry program. I hope to see you there.



P. V. Ramachandran
Chair, 2006

International Historic Chemical Landmark Plaque Dedication; Discovery of Noble-Gas Reactivity by Neil Bartlett, March 23, 1962

Recognition of the importance and role of fluorine chemistry in a significant scientific discovery recently took place when the American Chemical Society, in consort with the Canadian Society for Chemistry, designated the research of **Neil Bartlett** on noble-gas chemistry as an International Historic Chemical Landmark on May 23, 2006 in Vancouver, British Columbia. The Division of Fluorine Chemistry was represented at this event by **Gary Schrobilgen**, Immediate Past Chair of the Division. The commemorative plaque, unveiled at the ceremony, will be permanently installed at the University of British Columbia in Vancouver near the site of Neil Bartlett's original discovery. On May 24, 2006, the University of British Columbia also conferred the honorary degree of Doctor of Science on Neil Bartlett at its spring convocation. The Division of Fluorine Chemistry extends its heartfelt congratulations to Neil Bartlett for these well-deserved recognitions of this important and defining discovery in chemistry. For further information on the National Historic Landmarks Program, please visit the website at <http://www.chemistry.org/landmarks>.

Gary J. Schrobilgen
McMaster University
Hamilton, Ontario

Treasurer Report

Overview of Income and Expenditures

Fiscal year 2005 was an excellent year for the Division of Fluorine Chemistry. The Division's net operating income showed a gain of \$11,924.14 over expenses in 2005.

Grants and Funded Activities

The Division of Fluorine Chemistry continues to be committed to undergraduate research experience in fluorine chemistry. In 2005, the Division awarded four Moissan Summer Undergraduate Research Fellowship awards of \$2,500 each to deserving undergraduate students interested in fluorine chemistry. In addition, two poster awards of \$500 each were awarded to graduate students at the Winter Fluorine Conference.

The Division of Fluorine Chemistry continues to provide strong financial support to programming of all fluorine-related symposia. In 2005, \$13,234.44 of Division money (not including PRF funds) was provided to support programming at the ACS National Meeting in

Washington, the 17th Winter Fluorine Conference, and two symposia (#100 and #220) at the Pacifichem 2005 in Honolulu, HI.

In 2005, Division-provided seed money to individual fluorine-related symposia increased from \$2,000 to \$4,500 per symposium.

Assets of the Division of Fluorine Chemistry

Overall in 2005, the Division's total assets increased 14.2%, or a total of \$25,496.25 from \$179,056.77 at the start of the year to \$204,553.02 at the end of the fiscal year.

The Division is committed to building a self-sustaining Moissan Summer Undergraduate Research Fellowship fund (SURF) in order to provide continued funding for this important program well into the future. In 2005 the Division transferred \$27,000 from the operating fund to the dedicated Moissan SURF fund. In 2005, the Moissan SURF increased 92.4% from \$36,079.90 at the beginning of the year to \$69,426.35 at the end of the fiscal year.

Note that all current and past Moissan SURF awards have been taken from the Division's operating account, leaving the Moissan SURF fund principal and interest untouched. The purpose for this is to grow the Moissan SURF fund to the point of self-sustainability.

Vice-Chair/Membership Report

The Division had, as of June 2006, 664 members. We thank all who promoted our Division and helped us to retain members and recruit new members. We welcome any suggestions for activities that will help maintain and, most importantly, expand our membership.

We published and distributed the new Membership Directory last year to those who opted to be included. If you wish to receive and have your name and contact information included in future Membership Directories, you will need to fill out an **Opt-In Form** (included in this newsletter, and also posted on the Fluorine Division's website). This needs to be done only once in a lifetime. If you wish to change or correct your contact information, please contact **Vadim Soloshonok**: vadim@ou.edu

We continue to urge every member to actively recruit new members for the Division in our **"Member-Get-A-Member Campaign"** so as to achieve our goal of becoming a medium-size division. We would like to remind you that the first year of membership is free of charge, so please advise all of your graduate students and post-doctoral fellows to enroll.

We welcome the following new members to the Division: **Peter Barthen, Patrice T. D. Batamack, Vural Bilir, Miroslav Boca, Radoslav Bozov, Michael J. Bulinski, Etienne C. Dauphin, Volodymyr N. Fetyukhin, Fatin E. Hajjaj, Ahmed Hedhli, Markus Hirschberg, Michael J. Hughes, Zuzana Ivanova, Douglas S. Johnson, Olga C. Keeley, Sid Kothari, Scott D. Kuduk, Jaroslav Kvicala, Nic Leblond, Rosa Liantonio, Michael McCrane, Kimberly McGrath, Pierangelo Metrangolo, Andrea Missio, Ryan C. Nelson, Shinichi Ogino, Meher K. Perambuduru, Pavel Perlov, Jean-Pierre Pinto, Bernard E. Pointner, Mark A. Richter, Maurizio Sansotera, Geetgovind Sinam, Clas Sonesson, Michael A. Stanga, Christoph Steinberg, Kenneth F. Stensrud, Al Thornton, David Van Goor, Andre Wenda, and Mikhail Zibinsky.**

Division Councilor Report, 231st ACS National Meeting

The ACS Council Meeting was held on Wednesday, March 29, 2006 in Atlanta, GA. In addition to the Council Meeting, I also participated in the Joint Board - "Council Committee on Science Meeting" on Saturday, March 25, 2006. I also participated in the Executive Committee Meeting of the Fluorine Division on Sunday, March 26, 2006. Detailed below are some points of interest and information from the Council Meeting and the Committee on Science Meeting.

The Committee on Nominations and Elections presented to the Council the following nominees for selection as candidates for President-Elect, 2007, Bruce E. Bursten, Richard Eisenberg, Bassam Z. Shkhashiri, and Matthew V. Tirrell. By written ballot, the Council selected Bruce E. Bursten and Bassam Z. Shkhashiri as candidates for 2007 President-Elect. These two candidates will stand for election in the Fall National Election.

The Committee on Nominations and Elections announced the selection of the following candidates for Director-at-Large for a 2007-2009 term, William H. (Jack) Breazeale, Jr., Dennis Chamot, Peter K. Dorhout, Paul R. Jones, Valerie J. Kuck and Dorothy J. Phillips. The election of three Directors-at-Large will be conducted in the fall. Two candidates will fill the 2007-2008 term, and one will fill a two-year vacancy for 2007-2008 created by the resignation of Director-at-Large James D. Burke (effective December 31, 2006).

As part of a regular review, the Council VOTED to continue the Committee on Admissions and the Committee on Professional Training. The Committee on Admissions has the power to interpret and apply the requirements for membership, including determining status of applicants educated in foreign countries. The Committee on Professional Training promotes and assists in the development of high standards of excellence in all aspects of post-secondary chemical education, and undertakes studies important to their maintenance.

As of March 28, 2006, this Spring National Meeting had attracted 12,546 registrants as follows: Regular Attendees, 6,323; Students, 4,158; Exhibitors, 1,288; Exposition only 413; and Guests, 364.

ACS closed 2005 with 158,422 members, reversing a 4-year downward trend in Society membership. Of the 15,532 applications processed in 2005, nearly 900 came from the Member-Get-A-Member campaign, in which many councilors participated. The membership retention number remained stable at 92.4%.

The Council VOTED to set the members' dues for 2007 at the fully escalated rate of \$132.00. In addition, the temporary assessment of \$8.00 was reduced to \$4.00 for 2007. Thus, the total dues in 2007 will be \$136.00 (132 + 4). 2007 is the final year for the Special Assessment.

The Joint-Board Council Committee on Science was given a presentation by the Chair of the Division Activities Committee (DAC) on potential changes in the operation of Divisions in the future. Since these changes could have significant impact on our Division in the future, I will outline some of these discussed changes below:

DAC indicated that the world is changing and three powerful external forces; (1) Information Technology; (2) Multidisciplinary; and (3) Competition requires the scientific and professional

member Divisions to adapt. This means that Divisions and DAC will be changing the ways in which they have operated in the past. These changes will encompass the following:

1. New Visions:

Divisions working across the ACS, indeed across other scientific societies, to create more value for more ACS members, and others who use Chemistry, by supplementary information consumption at or outside national meetings through expanded use of electronic information delivery.

2. Changing Customer Base:

Multidisciplinarity (MD) has created new categories of ACS members whose information needs do not align with any one division, e.g. nanoscience. The increase in MD scientists has greatly expanded the market for ACS division services to non-members, and new technologies permit divisions to electronically serve dramatically larger numbers of scientists worldwide.

3. Change to Effective Thematic Programming:

This change will offer a single coherent and attractive ACS program, and will allow marketing of the program effectively to members and non-members. It will minimize conflicts between sessions through scheduling by themes. The ACS will hold sessions within a theme in close proximity to each other. The first scheduled thematic program will be held at the San Francisco meeting in the Fall and will involve 10-13 different Divisions. Thematic programming is also scheduled for Chicago and Boston in 2007.

As a consequence of the changes discussed above, Divisions will have to adapt to new modes of operation/cooperation. New divisions may need to emerge and some divisions may find it more expedient to merge with others. Some divisions may lose portions of their membership support.

These changes and consequences can have a significant impact on small divisions (such as the Division of Fluorine Chemistry). Thus, it behooves our divisional leadership to monitor these new changes occurring in DAC and to determine how the Division of Fluorine Chemistry can adapt to these new changes and still maintain its individuality and vitality.

Donald J. Burton, Councilor for the Fluorine Division

Vice-Chair/Programs Report

With the support of the Fluorine Division at the **Pacificchem 2005**, December 15–20, 2005, Honolulu, HI, in the Organic section, a symposium titled “***Fluorine Containing Amino Acids-Their Preparation and Application in Biological Systems***” took place with 15 speakers. The organizers were Professors Takashi Yamazaki (Japan), John Welch (USA) and John F. Honek (Canada). In the Inorganic section, under the leadership of Professor Gary J. Schrobilgen (McMaster University), Professor Rika Hagiwara (Kyoto University) and Dr. William J. Casteel, Jr. (Air Products and Chemicals, Inc.) a two-day symposium on “***Inorganic Fluorine Chemistry: Bridging Fundamental and Applied Chemistry***” was also held, with 25 speakers

participating. A poster session on the topic featured 14 excellent posters. Both symposia were deemed successful, and the Division thanks all of the organizers for a great job.

A one-day Fluorine Award Symposium entitled “*Current Directions in Inorganic Fluorine Chemistry*,” honoring Professor Boris Žemva, Jožef Stefan Institute, Slovenia, the recipient of 2006 ACS Award for Creative Work in Fluorine Chemistry, was held at the **231st ACS National Meeting**, Atlanta, GA, March 26-30, 2006 with participation from 14 speakers. Professor Gary J. Schrobilgen and Dr. Hélène P.A. Mercier (McMaster University) are thanked for their efforts in putting the symposium together. A Division dinner honoring Professor Žemva was held after the symposium.

Upcoming Meetings

232nd ACS National Meeting, San Francisco, CA, September 10- 14, 2006.

The Division, under the leadership of Drs. Andrei A. Gakh (Oak Ridge National Laboratory) and Kenneth L. Kirk (NIDDK, NIH), is organizing a symposium on “*Fluorinated Heterocycles*”. There will also be a general session for contributed papers.

18th Winter Fluorine Conference, St. Pete Beach, FL, January 14- 19, 2007.

Preparations for the 18th Winter Fluorine Conference (Viacheslav Petrov, Chair, and P. V. Ramachandran, Co-chair) are in full swing. The multi-disciplinary format for the meeting, a Gordon-Conference-style setting, should be rewarding for the attendees. The conference theme will be “*Fluorine: an Enabling Element of Modern Chemistry*”. In addition to plenary lectures, a number of invited and contributed papers, as well as posters, will be showcased. The meeting will also feature the 2007 ACS Award winner for Creative Work in Fluorine Chemistry (award winner to be announced by the ACS in early fall). For further information please go to the Fluorine Division website: <http://membership.acs.org/F/FLUO/>.

233rd ACS National Meeting, Chicago, IL; March 25-29, 2007.

Dr. Kunisuke Izawa (Ajinomoto Co., Japan) and Professor Vadim A. Soloshonok (University of Oklahoma) are organizing a Division-supported symposium dedicated to design, synthesis and functions of alpha-amino acids.

Southeastern Regional Meeting of the ACS (SERMACS), Augusta, GA; November 1-4, 2006.

Drs. Chad E. Stephens (Augusta State University) and William R. Dolbier, Jr. (University of Florida) are organizing a Division-supported symposium entitled “*Advances in Fluorine Chemistry*”. For further information, see: <http://www.sermacs2006.org/>.

The Fluorine Division will continue supporting Symposia to be held concurrently with ACS National Meetings on **Topics in Fluorine Chemistry**. It is also the policy of the Fluorine Division to encourage local ACS affiliates to conduct symposia on fluorine-related topics. In addition, the Fluorine Division is expanding its range of program activities to showcase the interdisciplinary nature of fluorine chemistry. Please send your comments or suggestions to the Vice-Chair/Programs.

The Division expresses its gratitude to all of the organizers.

INTERNATIONAL MEETINGS OF INTEREST TO MEMBERS OF THE ACS FLUORINE DIVISION

18th INTERNATIONAL SYMPOSIUM ON FLUORINE CHEMISTRY

July 30 - August 4, 2006, Bremen, Germany

Organizers:

Prof. Rüdiger Mews (mews@chemie.uni-bremen.de)

Prof. Gerd-Volker Rösenthaller (gvr@chemie.uni-bremen.de)

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http://www.gdch.de/vas/tagungen/tg/isfc2006__e.htm

15th EUROPEAN SYMPOSIUM ON FLUORINE CHEMISTRY

July 15 –20, 2007, Prague, Czech Republic

Organizer:

Professor Oldrich Paleta (Chairman)

Professor Jaroslav Kvicala (Secretary)

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Institute of Chemical Technology, Prague

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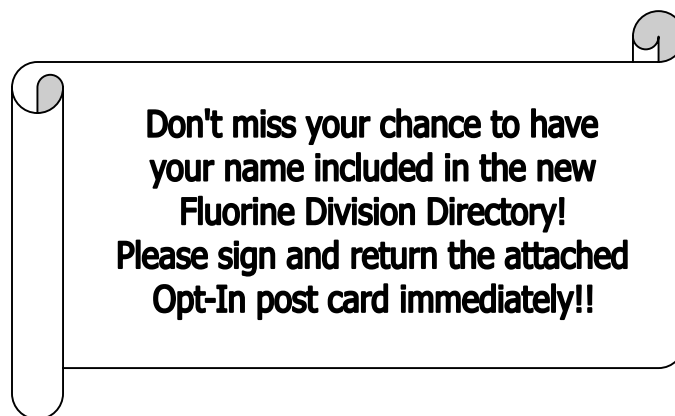
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In an effort to assist the Fluorine Division in the important endeavor of the publication of its membership directory, we are asking you to indicate your desire to be included in such a directory. To protect both your professional and personal privacy, you will be included in this directory **only** if you so indicate on the **post card attached to this Newsletter or through the Opt-In Form posted on the Fluorine Division's website.**

No response from you will be considered a "no". **Members who have already responded to this question need not return this form. For those who have not responded thus far, a non-response from them will be considered as "no".** If you are not sure whether or not you have previously provided your consent to be included in the membership directory, please fill in and return this post card anyway.

Directory information will be limited to your name, preferred address (work or home), city, state, postal code, e-mail address and work phone number (or home phone number if no work number is available and no objection to the use of this number is raised by the member). These directories will be made available only to current members of the Fluorine Division who choose to participate in the program.

**American Chemical Society Division of Fluorine
Chemistry Membership Directory Opt-In Form**

Name: _____

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Fluorine Division Membership Directory

____ I do not choose to have my information
published in the Fluorine Division
Membership Directory

Note: Please send any changes in your contact information
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vadim@ou.edu

Signature: _____ Date: _____

You may also FAX this form and changes in contact information to
Vadim A. Soloshonok @ (405) 325-6111

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