

FALL NEWSLETTER
&
Official Ballot for
Election of Executive Committee Positions
September 2005

Message from the Chair

This past month has seen natural disasters in the southern U. S. that are unprecedented within recent memory. In response, ACS has created a blog (<http://amchemsoc.blogspot.com>) to help link those within and outside the region affected by the hurricanes Katrina and Rita. ACS and your Division hope members will post questions and information to the blog regarding the safety of members and friends and their families. In addition, assistance offers or requests – and other relevant information about housing, education, or jobs – can be posted there. We strongly urge you to keep giving and volunteering to aid in the relief, recovery, and rebuilding efforts needed to overcome these disasters. Please consult the ACS blog for suggested ways in which you can render timely assistance in this time of dire need.

Following the 17th Winter Fluorine Conference last January, our Division has had a prolific season in terms of conferences and scientific recognitions. Many of our members attended the 17th International Symposium on Fluorine Chemistry, Shanghai, China in late July. In late August, the Division sponsored a four-session symposium (cosponsored with the Divisions of Medicinal Chemistry, Organic Chemistry and Agrochemicals) with 28 speakers on *Current Frontiers of Fluoroorganic Chemistry*, which was organized by **V. A. Soloshonok** and **K. Mikami** at the Fall ACS National Meeting in Washington, D.C. Our sincere thanks go to both organizers for the excellent co-organization of a very successful symposium. In addition, the Polymer Division sponsored a tutorial and symposium on *Fluorine-Containing Polymers* and the Organic Division sponsored a symposium on *Recent Advances in Fluorous Chemistry* at the Washington meeting, with the Fluorine Division as a co-sponsor of both symposia.

As it is customary in the Fall Newsletter, you will find attached the **Official Election Ballot** with the names of candidates that have graciously accepted to run for the 3-year term positions (2006-2008) of Vice-Chair Membership, executive committee members

(2), and Treasurer. This year I am proud to announce another top-notch list of candidates from industry and academia. I want to express my appreciation to **Vadim Soloshonok** (University of Oklahoma), **Stephan Brandstadter** (Chemtura), **Bob Syvret** (Air Products and Chemicals, Inc.), **David A. Dixon** (University of Alabama), **William R. Dolbier, Jr.** (University of Florida), **Richard A. Du Boisson** (SynQuest Laboratories, Inc.), **Viacheslav A. Petrov** (DuPont Co.), **Alex Roche** (Rutgers University), **William W. Wilson** (University of Southern California) for agreeing to participate in this very important service to our Division.

Please exercise your privilege and vote; the Division needs your active involvement! Let's aim for a record-setting number of returned ballots this year.

I would like to remind everyone about the submission deadline for **Moissan Summer Undergraduate Research Fellowship** proposals. The deadline for submission is December 15, 2005. Please consider submitting a proposal for these worthwhile and useful awards. More detailed information on the award can be found in this Newsletter. I direct your attention to the Treasurer Report and Bob Syvret's comments relating to the Division's fundraising efforts on behalf of the Moissan Summer Undergraduate Research Fellowship investment fund. If you and/or your organization wish to contribute to this outreach program and worthwhile investment in the future of fluorine chemistry, please contact the Division's Treasurer, Bob Syvret. A form providing details on how to make your donation is attached to this Newsletter.

Richard D. Chambers, University of Durham, received the Prix Moissan at the 17th International Symposium on Fluorine Chemistry in Shanghai. You will recall that the 17th ISFC was to have been held in July 2003, but was postponed as a result of a SARS outbreak in China, delaying the formal award of the Prix Moissan. Congratulations, at last, Dick from your Division colleagues! We also acknowledge the Chinese organizers of the 17th ISFC for putting together an excellent program that was internationally very well attended. We also thank them for their gracious and generous hospitality throughout the meeting.

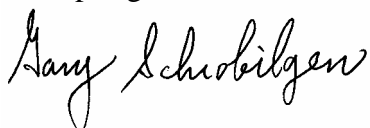
We also extend our congratulations to the winner of the 2006 ACS Award for Creative Work in Fluorine Chemistry – **Boris Žemva** (Jožef Stefan Institute, Ljubljana, Slovenia). Professor Žemva will receive his award at the 231st ACS National Meeting in Atlanta, Georgia. A special symposium honoring Boris and his lifetime contributions to fluorine chemistry will be a part of the programming for this meeting. The 2006 award is sponsored by **SynQuest**, who will alternate with **Honeywell** in sponsoring this award over the next several years.

We also congratulate two other Fluorine Division members, **Surya Prakash** (University of Southern California) and **Jinbo Hu** (Shanghai Institute of Organic Chemistry). Professor Prakash will receive the George Olah Award in Hydrocarbon or Petroleum Chemistry (sponsored by the George A. Olah Award Endowment) at the spring 2006 National ACS Meeting in Atlanta. There will be a special symposium at the Atlanta meeting honoring Surya under the sponsorship of the Division of Organic Chemistry. This symposium will be organized by Andrei Yudin of the University of Toronto. Dr. Hu is one of two recipients of Air Products' inaugural Young Faculty Excellence Awards. Dr. Hu was recently appointed, after a postdoctoral fellowship with Prof. Surya Prakash, to a faculty position at the Key Laboratory of Organofluorine Chemistry at the Shanghai Institute of Organic Chemistry. The award consists of a \$30,000 unrestricted gift intended to further his research work in organofluorine chemistry. Air Products' Young Faculty Excellence Awards are meant to recognize and encourage emerging young faculty in research areas of strategic interest to Air Products.

Your Division needs your help to recruit new members for the Division. Please consult the Vice-Chair Membership Report in this Newsletter for specific ways in which you can help.

If there are concerns or questions you have regarding the Fluorine Division, please send me an e-mail. If there are items you would like to have considered for inclusion in the Newsletter, please do the same. Be sure to check out the Division's website if you have not done so recently (<http://membership.acs.org/F/FLUO/>).

The Executive Committee of the Division and I hope you have a pleasant and productive Fall and I look forward to seeing you in Atlanta next spring.



Gary J. Schrobilgen
Chair, 2005

Treasurer Report

The fiscal state of the Division of Fluorine Chemistry continues to be very strong. The Table below provides a snapshot view of the Division's assets as of 30 June 2005 and comparative numbers from a year ago.

While the Division's total assets have increased only marginally (2%) over the course of the last year, the allocation of funds within our asset base has changed significantly as a result of a shift of funds from Morgan Stanley Dean Witter (*MSDW*) to American Express Financial Advisors (*AMEXFA*).

About 1.5 years ago, in March 2004, the value of the Moissan Summer Undergraduate Research Fellowship (SURF) in Fluorine Chemistry was ~ \$25,000 and was comprised of various mutual fund accounts held at *MSDW*. In December 2004, the Moissan funds from *MSDW* were combined with the liquid asset funds at *MSDW* and rolled into a "new" Moissan SURF Fund at *AMEXFA* in a SPS Advantage Account. The resulting Moissan SURF Fund value was ~ \$35,000. In January 2005, in an effort to catalyze growth of the Fund, the Fluorine Division sent out a solicitation for contributions to the Fund and deposited \$10,000 from our general operating fund to the *AMEXFA* Moissan SURF Fund making the then-current total value ~ \$45,000.

ASSETS (as of 30 June 2005)

	(\$ as of 30 June 2004	(\$ as of 30 June 2005
ACS Investment Pool (market value)	105,244	110,902
Morgan Stanley Dean Witter		
Liquid Assets	9,454	0
Moissan Fellowship Fund	24,991	0
Wachovia National Bank	34,863	19,119
American Express SPS Advantage Account		
Moissan Fellowship Fund	0	47,851
Total Assets	174,552	177,872

Other financial highlights for the Division include:

- Note that the above numbers do not reflect the proceeds from the 17th WFC.
- The Executive Committee of the Fluorine Division voted to increase financial support to Fluorine Division sponsored symposia at ACS National meetings. The Division will now provide a maximum of \$4,500 for support of individual symposia, up from the previous amount of \$2,500. The additional \$2,000 in support must be used to pay the cost of speaker registrations for National meetings. The fall 2005 ACS National Meeting in Washington, D.C. was the first meeting where symposia were eligible for the new higher support values. The “Frontiers” symposium organized by Vadim Soloshonok received the increased support from the Division.
- The Division of Fluorine Chemistry provided four Moissan SURF Awards of \$2,500 each for undergraduate researchers in 2005.

Vice-Chair Membership Report

The division had, as of April 2005, 638 members. There are 564 regular members, five national affiliates and 69 Divisional affiliates. As of April, 65 members had not paid their dues; we ask that they do so soon.

The membership total has been steady during the past year – the Division had 636 members as of the same time last year. The total reflects the recruitment of a number of new members, since a comparable number did not renew their membership (membership had increased to 670 by December 2004). All of the participants in the 17th International Symposium on Fluorine Chemistry who are not members of the Division were invited to join the Division. The invitation produced responses, and we anticipate the acquisition of a number of new members through this initiative.

We welcome the following new members: **Babak Behnam Azad, Mohammad Bakht, Kwang Chung, Shankar Godavarti, Michael J. Hughes, John C. Katz, Koji Kigawa, Takayuki Kubota, Richard Maskiewicz, F. Turner Plunkett, Rama V. Rajagopal, and Jongpil Yun.** The new member listing is as per the April activity roster, and the names of other new members will be included in the next report.

At the August 28 Executive Committee meeting in Washington, D.C., recruitment of new members and retention of current members were discussed. A sub-committee composed of Gary Schrobilgen, Paul Resnick, and the Vice-Chair Membership was formed for this purpose. The Executive Committee decided to set an example, and each member of the committee set as a goal the recruitment of at least five new members before the end of the current year. The goal of the overall recruitment effort is to double the Division’s membership by the end of 2006. **This goal can be reached if each Division member recruits just one new member in that time span, and I strongly encourage each member to set this as a minimum personal goal. The future of the Division is critically dependent upon recruitment of new members. Please urge your colleagues to join the Division and share in its benefits!**

It is noteworthy that the Division members enjoy a reduced subscription rate for the *Journal of Fluorine Chemistry* (a subscription form is included in this Newsletter). As a new benefit, the Executive Committee has decided to have conference abstracts mailed as CDs to all members of

the Division. Suggestions for ways in which the Division can better serve its members and make membership in the Fluorine Division more rewarding are always welcome.

Division Councilor Report, 230th ACS National Meeting

The ACS Council Meeting was held on Wednesday, August 31, 2005 in Washington, D.C. In addition to the Council Meeting, I also participated in the Joint Board-Council Committee Meeting on Saturday, August 27, 2005. Detailed below are some points of interest and information from the Council Meeting.

The Committee on Nominations and Elections presented to the Council the following slate of nominees for membership on the Committee on Committees for the 2006-2008 term: Cherlynlavaughn Bradley; William H. (Jack) Breazeale, Jr.; Theodore M. Brown; Michael J. Brownfield; Peter K. Dorhout; Alan M. Ehrlich; Jurgen H. Exner; Mamie W. Moy; Connie J. Murphy, and Don B. Weser. By written ballot, the Council elected Bradley, Breazeale, Dorhout, Moy, and Murphy.

The Committee on Nominations and Elections presented to Council the following slate of nominees for membership on the Council Policy Committee for the 2006-2008 term: R. Gerald Bass; Martha L. Casey; Alan B. Cooper; Catherine E. Costello; M. Elizabeth Derrick; Janan M. Hayes; Ann H. Hunt; Valerie J. Kuck; Bonnie A. Lawlor, and Charles E. Thomas. Councilors were informed that Stephen T. Quigley was nominated as a petition candidate. By written ballot, the Council elected Bass, Casey, Hayes, Kuck and Lawlor.

The Council Policy Committee presented to the Council the following slate of nominees for membership on the Committee on Nominations and Elections: David E. Bergbreiter; David S. Crumrine; Steven A. Fleming; Michelle M. Francl; Peter C. Jurs; Roger A. Parker; Robert A. Pribush; Sara J. Risch; Herbert B. Silber, and John T. Yates, Jr. By written ballot, the Council elected Fleming, Francl, Jurs, Parker and Risch.

The Council was informed that John W. Kozarich had withdrawn as a candidate for President-Elect. The candidates for the Fall 2005 ACS National Elections were announced as follows:

President-Elect 2006:

George E. Heinze, Rockland Technimed, Ltd., New York
Catherine T. Hunt, Rohm and Haas Company, Pennsylvania

Directors-at-Large – 2006-2008:

James Burke, Rohm and Haas Company, Pennsylvania
Edwin A. Chandross, Materials Chemistry, LLC, New Jersey
C. Gordon McCarty, Bayer Corporation, Adjunct Professor, University of South Carolina
Frankie K. Wood-Black, Conoco Phillips, Texas

Director, District III 2006-2008:

Catherine C. Fenselau, University of Maryland

Madeleine M. Joullie, University of Pennsylvania
Director, District VI, 2006-2008:

Bonnie A. Charpentier, Genitope Corporation, California
Stanley H. Pine, California State University

As of August 30, 2005, the ACS Fall National Meeting had attracted 13,040 registrants as follows: regular attendees 7,584; students 2,715; guests 478; exhibit only 468; and exhibitors 1,795. The 2006 National Meeting registration fee was announced as \$305.00.

As of July 31, 2005, total ACS membership was 155,567 – an increase of 282 over the end of July 2004.

A special discussion item was put on the Council agenda for the Washington Meeting. ACS President William F. Carroll described the process being used to develop a Society Vision hypothesis that is to be tested with members, customers, governance and other interested parties. ACS National Meeting attendees reported 15 common themes to be considered as important to the Society's future. Dr. Carroll sought Council input on the most frequent themes, which were: diversity, young people, governance, multidisciplinary, globalization and outreach. A lively exchange of ideas on these various themes followed.

The Board of Directors received a status report on the activities of the Joint Board-Council Policy Committee Task Force on Governance Review. This task force is charged with conducting a review of the Society's governance structure and constitution and Bylaws to ensure that the Society has a governing framework to enable it to best fulfill its mission, meet member needs and remain a world-class organization.

The Board also reviewed and approved recommendations from the Committee on Executive Compensation and compensation for the Society's executive staff. The compensation of the Society's executive staff receives regular review from the Board.

The Board, through the Committee on Budget and Finance voted: (a) Reauthorization of, and continued funding for the Green Chemistry Institute, and (b) a complete renovation of the Society's Web Presence.

Vice Chair Programs Report

230th ACS National Meeting, Washington, D.C., August 28-September 1, 2005, Professors Vadim Soloshonok (University of Oklahoma) and Koichi Mikami (Tokyo Institute of Technology) organized a two-day symposium titled "***Current Frontiers in Fluoroorganic Chemistry***" cosponsored by MEDI, ORGN and AGRO Divisions. Twenty-eight speakers from all over the world participated in the event. The symposium was well attended with 16 hours of excellent presentations. The Division also co-sponsored the "**Recent Advances in Fluorous Chemistry**" symposium sponsored by the Division of Organic Chemistry under the leadership of Professor Dennis Curran (University of Pittsburgh) as well as the "**Fluorine-Containing Polymers**" symposium sponsored by the Division of Polymer Chemistry.

Upcoming Meetings

Pacifichem 2005; December 15 –20, 2005, Honolulu, HI

Fluorine Division activities will also take place at this international conference; for further information, please visit the website: http://www.pacifichem.org/c_symposia/. A symposium titled “ *Fluorine-Containing Amino Acids - Preparation and Application in Biological Systems*”, under the leadership of Professors Takashi Yamazaki (Tokyo University of Agriculture and Technology), John T. Welch (University at Albany) and John F. Honek (University of Waterloo), will be held.

A symposium titled “*Inorganic Fluorine Chemistry: Bridging Fundamental and Applied Chemistry*” will take place under the leadership of Prof. Gary J. Schrobilgen (McMaster University), Prof. Rika Hagiwara (Kyoto University) and Dr. William J. Casteel, Jr. (Air Products and Chemicals, Inc., Allentown).

A Fluorine Award Symposium will be held at the **231st ACS National Meeting, Atlanta, GA, March 26-30, 2006** to honor Professor Boris Žemva, Jožef Stefan Institute, Slovenia, who is the recipient of the 2006 ACS Award for Creative Work in Fluorine Chemistry. Professor Gary Schrobilgen will lead the organizational effort. Symposia are also planned for **232nd ACS National Meeting, San Francisco, CA, September 10- 14, 2006**.

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) have begun.

Annual Colloquia: Topics in Fluorine Chemistry

Professor Donald Burton (University of Iowa), Professor William Dolbier, Jr. (University of Florida), and Dr. Bruce Smart (DuPont) are planning a series of annual colloquia to be held concurrently with ACS National Meetings on **Topics in Fluorine Chemistry**. 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 for Programs.

The Division expresses its gratitude to all 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 Roeschenthaler (gvr@chemie.uni-bremen.de)
Institute of Inorganic & Physical Chemistry
University of Bremen
P. O. Box 330440
28334 Bremen, Germany
Tel. +49(0)421-218-2493 (office); Fax: +49(0)421-218-4267 (office)
Conference web site: http://www.gdch.de/vas/tagungen/tg/isfc2006__e.htm

15th EUROPEAN SYMPOSIUM ON FLUORINE CHEMISTRY

July 15 –20, 2007, Prague, Czech Republic

Organizers: Professor Oldrich Paleta (Chairman)
Professor Jaroslav Kvicala (Secretary)
Department of Organic Chemistry
Institute of Chemical Technology, Prague
Technicka 5
166 28 Prague 6, Czech Republic
E-mail: 15esfc@vscht.cz
Conference web site: <http://www.vscht.cz/15esfc>

CALL FOR PROPOSALS

2006 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 2006. 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 2006 are currently \$2,500 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 2006, the Division Chair must receive an application by 15 December 2005. The application, in triplicate, should be sent to:

Prof. Gary J. Schrobilgen
Department of Chemistry
McMaster University
Hamilton, ON L8S 4M1
Canada

Alternatively, an electronic submission in the form of a Word document may be submitted to schrobil@mcmaster.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 2006 will be announced in the Spring 2006 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 01 March 2006. Brief reports (two to three pages) to the Division Chair are required from the faculty member and student by 01 October 2006. 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.

Biographical Data of the Candidates for Offices of the Division of Fluorine Chemistry

Vice-Chair/ Membership (Three-year term, 2006-2008)

Stephan M. Brandstadter

Stephan M. Brandstadter is Technology Manager, Fluorine Chemicals, Chemtura Corp. (2002-present). He has held the positions of Group Leader, Senior Research Chemist, Research Chemist II, Research Chemist I (all at Great Lakes Chemical Corp., now Chemtura Corp.), and Post-Doctoral Researcher, 1989-1991, Stanford University, in Professor William S. Johnson's lab, where he studied synthesis and cyclization of novel polyenes for one step steroid formation. He received his Ph.D. in 1989 from the State University of New York – Stony Brook, in Professor Iwao Ojima's lab, where he studied new reactions of silicon, titanium, and zirconium ester enolates. He received his B.S. in 1984 from the State University of New York – Binghamton. His interests include: organofluorine chemistry, data acquisition, synthetic organic methodology, process development and improvement, and chemical engineering. He has 10

journal publications and 10 patent applications granted or submitted. He has also received two GLCC Presidential Awards for chemical research, and has been an ACS member since 1984.

Vadim A. Soloshonok

After completing his Ph.D. studies under the direction of Professor Valery P. Kukhar in 1987, Vadim spent the next two years at the Nesmeyanov Institute of Organometallic Compounds, Moscow, USSR (now Russia), working with Professor Yury N. Belokon' on asymmetric synthesis of fluoro-amino acids. In 1993 he spent one year as a visiting Professor at Politecnico di Milano, Milan, Italy, working with Professor P. Bravo on application of chiral sulfoxides for asymmetric synthesis of fluorine-containing compounds. In 1994 he was awarded a JSPS Fellowship to join Professor Tamio Hayashi's group where he worked on catalytic asymmetric synthesis of fluoroamino acids. In 1995 he was offered a senior scientist position at National Industrial Research Institute of Nagoya, Nagoya, Japan, where he worked for three years on various projects focusing on development of new methods for asymmetric synthesis of biologically relevant fluorine-containing compounds. In 1998 he moved to the University of Arizona, Tucson, to join Professor Victor J. Hruby's group as a Visiting Scientist. In Tucson, his main goal was synthesis of sterically constrained amino acids and small peptides with a presupposed 3D-structure. In 2001 he joined faculty of the Department of Chemistry and Biochemistry, University of Oklahoma, Norman, USA, where he is actively developing several research projects on various aspects of asymmetric synthesis and fluorine chemistry. He is the author of seven patents and 130+ publications, and has contributed many papers at various Fluorine Division meetings. His editorial activity includes: *Fluorine-Containing Amino Acids. Synthesis and Properties*, Kukhar, V. P.; Soloshonok, V. A. Eds., John Wiley & Sons Ltd., **1994**; *Enantiocontrolled Synthesis of Fluoro-Organic Compounds*, Tetrahedron Asymmetry Special Issue, Guest Editors: T. Hayashi and V. A. Soloshonok, *Tetrahedron: Asymmetry*, **1994**, 5, N 6; *Fluoroorganic Chemistry: Synthetic Challenges and Biomedical Rewards*, Tetrahedron Symposium-in-Print, # 58; Guest Editors: G. Resnati and V. A. Soloshonok, *Tetrahedron*, **1996**, 52, N 1; *Enantiocontrolled Synthesis of Fluoro-Organic Compounds*, Soloshonok, V. A. Ed., John Wiley & Sons Ltd., **1999**; *Asymmetric Synthesis of Novel Sterically Constrained Amino Acids*, Tetrahedron Symposia-in-Print; # 88; Guest Editors: Hruby, V. J. and Soloshonok, V. A. *Tetrahedron* **2001**, 57, No 30. In Fall 2003, jointly with V. Petrov, he organized an ACS Symposium "Fluorine-containing Synthons" (31 invited speakers) and edited a Special Issue of the *Journal of Fluorine Chemistry* as well as an *ACS Symposium Series* book on this subject. He has been a member of the Fluorine Division for many years, and recently was elected to serve on the Editorial Board of *JFC*.

Treasurer

Robert G. Syvret

Bob Syvret is currently Research Associate - Fluorine Chemistry in the Fluorine Technology Center of Air Products and Chemicals, Inc. in Allentown, PA. Bob was born and raised in Ontario, Canada. He attended McMaster University and earned the honors B.Sc. degree in chemistry in 1982. In 1987 he graduated from McMaster University with a Ph.D. in Inorganic Main-Group Fluorine Chemistry under the supervision of Professor Gary J. Schrobilgen. His research thesis was entitled, "O=IOF₄ Derivatives of Xenon and Related Main-Group Elements." Bob began his industrial career as Senior Research Chemist, Fluorine Exploratory Research at Air Products and Chemicals, Inc. in Allentown, PA, in February 1987. During his 18-year career at Air Products he has been responsible for the development of selective

fluorination technologies for commercial applications, with a focus on finding value in F₂ applications. Bob has served the ACS Division of Fluorine Chemistry as Vice-Chair/Secretary-Treasurer from 1999-2001, Chair and Acting-Treasurer in 2002, and Treasurer from 2003 until present.

Bob's work and that of many coworkers has been described in 63 publications, patents, and presentations at fluorine meetings. He has attended and contributed to each of the last 9 Winter Fluorine Conferences, 5 International Fluorine Symposia, and all but 4 of the ACS Division of Fluorine Chemistry meetings during the last 18 years.

Executive Committee (Three-year term, 2006-2008)

David A. Dixon

Prof. David Dixon is currently the Robert Ramsay Chair in the Department of Chemistry at the University of Alabama. He moved to the University of Alabama on Jan. 1, 2004 from the Pacific Northwest National Laboratory where he was a Battelle Fellow and prior to that Associate Director for Theory, Modeling and Simulation in the William R. Wiley Environmental Molecular Sciences Laboratory. Prior to moving to PNNL in 1995, he spent more than 12 years at DuPont's Central Research and Development at the Experimental Station in Wilmington, Delaware. Prior to DuPont, he was on the chemistry faculty of the University of Minnesota. He received his B.S. in chemistry from Caltech in 1971 and his Ph.D. in physical chemistry from Harvard in 1976. He was a Junior Fellow, Society of Fellows, Harvard University, from 1975 to 1977. Prof. Dixon's current research efforts are focused on the application of the techniques of numerical simulation, predominantly electronic structure theory, to solve complex chemical problems. A key area of interest is the prediction of accurate thermochemical and kinetic properties of molecules based on electronic structure theory without the use of empirical parameters. A major focus of his effort is on applying computational methods to the solution of problems in fluorine chemistry, including the replacements for the CFCs, fluoropolymers, main group fluorides, rare gas fluorides, design of new photoresists based on fluorinated organics, and reactive fluorinated organics. He has also been developing the first quantitative scale of Lewis acidities based on fluoride affinities with Karl Christe, and is using this scale to solve problems in heterogeneous catalysis involving transition metal oxides and in the design of new chemical hydrogen storage systems. He has also been applying computational chemistry methods to solve environmental problems, specifically those facing the Department of Energy (DOE) nuclear weapons production complex. In addition, he has managed the acquisition, implementation, and use of some of the largest high-performance computer facilities available for scientists. He has previously served as a member of the Executive Committee, Program Chair, and Chair of the Division of Fluorine Chemistry. He has received a number of awards including an Alfred P. Sloan Research Fellowship, a Camille and Henry Dreyfus Teacher-Scholar award, the 1989 Leo Hendrik Baekeland Award of the American Chemical Society, a Federal Laboratory Consortium Technology Transfer Award in 2000, and the 2003 American Chemical Society Award for Creative Work in Fluorine Chemistry. He is a Fellow of the American Physical Society, Division of Chemical Physics and a Fellow of the American Association for the Advancement of Science. He has published over 400 scientific papers and presented over 200 invited lectures worldwide. He is a member of the Editorial Board, *The International Journal of Supercomputer Applications and High Performance Computing* and was on the Advisory Board, of *The Journal of Physical Chemistry* from 1993-1999.

William R. Dolbier, Jr.

Prof. Dolbier is currently the Col. Allen R. and Margaret G. Crow Professor of Chemistry at the University of Florida. He received a B.S. in Chemistry from Stetson University in 1961 and obtained a Ph.D. in organic chemistry from Cornell University in 1965, working with Mel Goldstein. After one and a half years of postdoctoral work with Bill Doering at Yale, he joined the faculty at UF in 1966, where he has been ever since, serving as Chairman from 1983 to 1988. Bill's research interests are focused mainly on the study of molecules containing fluorine. Although retaining a strong interest in structure-reactivity relationships, in recent years, his efforts have increasingly been devoted to development of new synthetic methods in organofluorine chemistry. He has published more than 230 papers, and is an inventor on twelve U.S. patents. Bill received the ACS award for Creative Work in Fluorine Chemistry in 2000, and is currently a member of the Executive Committee of the Fluorine Division of the ACS. In January 2006, he will become the North American editor of the *Journal of Fluorine Chemistry*. When not immersed in his academic endeavors, Bill's main interests continue to be his wife, Jing, son, Stephen, three grandchildren, and a little handball.

Richard A. Du Boisson

Rick Du Boisson was destined to be a fluorine chemist from an early age, when he produced hydrogen fluoride at home from teeth and sulfuric acid to etch a waxed glass plate with the initials RADuB scribed upon the surface. Some years later a chance encounter with Eric Banks' seminal text, "Perfluorocarbons and their Derivatives", piqued his interest, and when a position at UMIST to join R. N. Haszeldine's research group came up, he had a sufficient awareness of fluorine chemistry to be able to secure the post as Experimental Officer. Rick graduated from the Royal Society of Chemistry in 1980, studied electrophilic elemental fluorination for his M.Sc. with Professor Haszeldine, and then did research on fluorinated nitrones with Eric Banks and Tony Tipping at UMIST for his Ph.D. In 1985 Rick moved to Gainesville, Florida where he joined PCR as an R&D Chemist. In 1988 he took over the running of the PCR Research Chemicals Catalog business, producing some four catalogs, which expanded the range of products and grew the business significantly. In 1995 Rick joined SynQuest Labs and pioneered the establishment of the fluorochemical catalog offering over 3,000 fluorine-containing products for R&D groups around the world. In 2002 Central Glass of Japan acquired SynQuest, and Rick continues to run the business unit as President. SynQuest is also proud to co-sponsor the ACS award for Creative Work in Fluorine Chemistry.

The past 10 years have seen many changes in commercial fluorine chemistry, with the phasing out of ozone depleting chlorofluorocarbons and introduction of alternative products. This has stimulated much interesting work at SynQuest, where we have had to find new ways of making products that formerly had CFCs as precursors. We have also enjoyed exploring the chemistry of new commercial products, particularly hydrofluorocarbons, and developed many new fluorine-containing building blocks for R&D chemists. Fluorine chemistry is still full of surprises, and Rick has enjoyed working with chemists from all branches of chemistry who look to fluorine chemistry to develop solutions to their applications.

Viacheslav Petrov

Dr. Viacheslav Petrov started his carrier in 1978 as Research Associate in the Institute of Organo-Element Compounds (INEOS) Academy of Science USSR, Moscow, USSR, in the Laboratory of Organofluorine Compounds headed by academician I. L. Knunyants and later by Professor L. S. German. He received his Ph.D. degree from INEOS in 1983. In 1989 he joined the group of Professor D. DesMarteau at Chemistry Department of Clemson University, where he spent over two years. In 1992 Dr. V. Petrov joined DuPont Co. as a visiting research scientist

and in 1994 obtained a permanent position in DuPont Central Research and Development (Wilmington, DE), where he is currently Senior Research Associate.

His research interests are focused on synthetic methodologies for the preparation of polyfluorinated materials such as polyfluorinated functionalized olefins, imidoyl fluorides, small heterocycles (oxaziridines, aziridines, epoxides, oxetanes) and polyfluorinated monomers. Dr. Petrov is author and co-author of over 80 papers, 5 review articles and 30 European and US patents. In 1989 he was a recipient of the Harry Emeléus Prize for Creativity in Fluorine Chemistry by presented by Elsevier Science.

Alex J. Roche

Dr. Alex J. Roche received his B.Sc. in Chemistry in 1992 from the University of Durham, U.K., and remained in Durham to obtain a Ph.D. under the supervision of Prof. R.D. Chambers. The research was in synthetic organic fluorine chemistry, specifically using fluorinated alkenes and alkynes as building blocks to incorporate trifluoromethyl groups into organic molecules. He received his Ph.D. in October 1995, and spent the next three months working with Prof. Neil Bartlett (who was visiting the University of Durham) working on the preparation of high valency nickel fluorides, and studying their application as fluorinating agents. In January 1996 Dr. Roche left for Florida, and spent three years as a postdoctoral associate in the laboratories of Prof. Bill Dolbier, Jr., at the University of Florida. His research there was mainly focused on preparation, characterization and functionalization of fluorinated cyclophanes. In 1999 Dr. Roche joined the faculty of Rutgers, The State University of New Jersey as a visiting assistant professor, and in 2000 as an assistant professor. In 2002 Dr. Roche became the youngest recipient of the "Provost's Teaching Excellence Award", a campus wide teaching award designed to recognize outstanding and creative teaching. Dr. Roche maintains an active research group of primarily undergraduate students, and continues research in fluorine chemistry in the areas of cyclophane chemistry, trifluoromethylation, and the effects and repercussions of fluorination in well-studied organic molecules. Dr. Roche has over 20 publications and several patents in the realm of synthetic fluoro-organic chemistry.

William W. Wilson

Dr. William W. Wilson currently holds the position of Senior Research Scientist with the Loker Research Institute in the laboratories of Dr. Karl Christe at the University of Southern California in Los Angeles, California. Prior to that, he spent over ten years with the Air Force Research Laboratory/ERC as a Senior Staff Scientist at Edwards Air Force Base, California. Previously he worked at Rocketdyne in the Exploratory Research Department in Southern California, after spending some time at Argonne National Laboratory near Chicago. Dr. Wilson also spent a year as a Visiting Scientist at the Centre d'Etudes Nucléaires de Saclay near Paris, France. Dr. Wilson obtained his Ph.D. in 1975 at the University of British Columbia with Professor Felix Aubke after graduating from the University of Idaho in 1969, where he was introduced to the exciting area of fluorine chemistry research by Professor Jean'ne Shreeve. Dr. Wilson's research interests have been predominantly in the area of syntheses of highly energetic fluorine-containing compounds primarily for use in the laser isotopic separation of substituted uranium(VI) materials, solid-grain fluorine gas generators for chemical lasers, and liquid and solid rocket propellants. Most recently he has been highly involved in the area of polynitrogen and high-nitrogen-containing compounds. Dr. Wilson has been an active member of the ACS and the Fluorine Division since 1977 (not including membership in and President of his undergraduate Student Affiliate Chapter at the University of Idaho). In the past he has served as an Executive Committee Member of the Division of Fluorine Chemistry from 1993 through

1995. Following this he was elected to the position of Vice-Chair/Secretary-Treasurer of the Division for the period of 1996 through 1998, before becoming Chair in 1999. In 2001 he was awarded the Distinguished Service Award by the Division of Fluorine Chemistry. Dr. Wilson also has over 100 published papers and 10 patents to his credit. Among other activities, he has organized symposia for the 2000 Pacifichem Conference and at various ACS National Meetings, in addition to having presented numerous papers at national and international symposia.

2005 Donation Drive for the Moissan Summer Undergraduate Research Fellowship in Fluorine Chemistry Fund

Donations are sought for the Moissan Summer Undergraduate Research Fellowship in Fluorine Chemistry, administered by the ACS Division of Fluorine Chemistry. The current (September 2005) balance of the fund is ~ \$48,000. The goal is to grow the fund to \$150,000 in order to establish a self-sustaining invested pool of funds 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.

- The last donation drive for the Moissan Summer Undergraduate Research Fellowship in Fluorine Chemistry Fund was held in 1999. Over \$7,000 was donated by:
 - Dyneon LLC
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- Donations to the Moissan Summer Undergraduate Research Fellowship in Fluorine Chemistry Fund are tax deductible under U.S. tax laws and may also be in other jurisdictions.

Donations will be accepted by check (funds drawn on a U.S. money account) or by wire transfer (contact Bob Syvret for wire transfer details). Donations should be made payable to "ACS Division of Fluorine Chemistry Moissan Fund" and sent to:

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