

FALL NEWSLETTER
&
Official Ballot for
Election of Executive Committee Positions
September, 2004

Message from the Chair

Salutations from Louisville! I trust you have had a relaxing and productive summer. Personally, the past months have been particularly busy. After several hectic weeks in which my family and members of my research group helped me plan our departure from Massachusetts, we arrived in early August to the 'bluegrass state' of Kentucky, to begin a new academic career at the University of Louisville. Although the whole moving process went quite well, I would not like to repeat it!

Our division has had a prolific season in terms of conferences and scientific recognitions. Soon after our symposium in honor of **Surya Prakash** in Anaheim, many of our members attended the 14th European Symposium in Poznań, Poland in mid-July. In late August, two symposia plus a general session were held during the ACS National Fall Meeting in Philadelphia, PA. Our sincere thanks to **George Shia** and **Bob Syvret** for organizing a very successful *Industrial Fluorine Chemistry Symposium*, and to **Olga Sharts** and **Dale Shellhamer** for the excellent co-organization of the *Analytical Fluorine Chemistry Symposium*. **Surya Prakash** is currently putting together the final touches for our flagship meeting, the 17th Winter Fluorine Conference, to be held in January 2005 in the familiar surroundings of the Tradewinds Hotel in St. Petersburg Beach, FL.

As it is customary in the Fall, with this newsletter you will receive ballots with the names of candidates that have graciously accepted to run for the positions of Vice-Chair Secretary, executive committee members (2), councilor, and alternate councilor. This year I am specially proud to announce a top notch list of candidates. I want to express my appreciation to **Jim McCarthy** (Eli Lilly), **Brian O'Brien** (Gustavus Adolphus College), **Don Burton** (U. Iowa), **Michael Gerken** (U. Lethbridge, Alberta), **Naiyong Jing** (3M), **Josef Michl** (U. Colorado), **Paul Resnick** (DuPont), and **Vadim Soloshonok** (U. Oklahoma) for accepting to participate in this very important service to our Division.

Please exercise your privilege and vote. Let's try to 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 has been extended until December 15, 2004. Please consider submitting a proposal for these worthwhile and useful awards. More detailed information on the award can be found in this Newsletter.

We would like to extend our congratulations to the winner of the 2005 ACS Award in Creative Fluorine Chemistry – **Shlomo Rozen** (Tel Aviv University). Professor Rozen will receive his award at the 17th Winter Fluorine Conference. The 2005 award is sponsored by **Honeywell** who will be alternating with **SynQuest** in sponsorship of this award over the next several years.

We also wish to extend our congratulations to two other Fluorine Division members, **George A. Olah** and **Neil Bartlett**. Professor Olah will receive the prestigious Joseph Priestley Medal of the American Chemical Society at the Spring, 2005 National ACS Meeting in San Diego. Professor Bartlett has recently received two further international recognitions of his achievements in inorganic fluorine chemistry; these are detailed in a brief article following this message.

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. The Executive Committee of the Division and I hope you have a pleasant Fall.



G.B. Hammond
Chair, 2004

British and French Accolades to Professor Neil Bartlett

Neil Bartlett has received an Honorary Fellowship in the Royal Society of Chemistry. The fellowship was approved by the Council of the Royal Society of Chemistry on December 12, 2002 and the scroll was presented by Sir Harry Kroto at a RSC reception at the Anaheim ACS Meeting in early April, 2004.

Le Grand Prix de la Fondation de la Maison de la Chimie was presented to Professor Bartlett on July 8, 2004. The award is the highest distinction that can be given to a chemist in France and recognizes the discovery of the first noble-gas compound, "XePtF₆", in 1962, thus opening up the new field of noble-gas chemistry and of fluorine chemistry. Professor Bartlett also gave a 40 minute talk ("Some Chemistry of Very Powerful Oxidizers") in the meeting held July 8-9 at the "Maison" to commemorate the 70th anniversary of the foundation of the Maison de la Chimie.

Congratulations Neil, on behalf of all of your fluorine chemistry colleagues!

Contributed by
Alain Tressaud
Boris Žemva
Gary J. Schrobilgen

Treasurer Report

Assets (as of 30 June 2004)

	(\$) as of 30 June 2003	(\$) as of 30 June 2004
ACS Investment Pool (market value)	95,564.45	105,243.93
Morgan Stanley Dean Witter		
Prime Income Trust	4,705.76	0.00
Liquid Asset Fund	829.05	6,020.18
Limited Duration Fund Ex "C"	3,411.73	3,433.70
Moissan Fellowship Total	23,182.28	24,991.13
MFS Mass Investors Trust "A"	9,136.43	10,495.40
Oppenheimer U.S. Gov Trust "A"	6,600.95	6,589.67
Limited Duration Fund	5,487.10	5,522.47
Putnam Int. Growth Fund "A"	1,957.80	2,383.59
First Union National Bank	6,941.47	34,862.92
Total Assets	134,634.74	174,551.86
percent change		29.7 %

Moissan Summer Undergraduate Research Fellowship in Fluorine Chemistry

	(\$) as of 30 June 2003	(\$) as of 31 Dec 2003	(\$) as of 30 June 2004
MFS Mass Investors Trust "A"	9,136.43	10,263.28	10,495.40
Oppenheimer U.S. Gov Trust "A"	6,600.95	6,595.61	6,589.67
Limited Duration Fund	5,487.10	5,528.62	5,522.47
Putnam Int. Growth Fund "A"	1,957.80	2,361.87	2,383.59
Total	23,182.28	24,749.38	24,991.13
% Change		6.8 %	10 %

Points to note: Stabilization and the slow recovery of the Stock Market have resulted in a gradual improvement in our Division's holdings. The Moissan Fund holdings have now recovered to about the 2001 levels; however, the Division has not contributed to the Fund since the year 2000. The net assets of the Division increased significantly in 2003 due to the revenue generated at the 16th Winter Fluorine Conference. The revenue from the 16th Winter Fluorine Conference (net \$25,968.88) is reflected in the above figures.

Vice-Chair Membership Report

We have slightly increased the membership during the summer. The division currently has (as of June 2004) 654 members. We have 568 regular members, 4 National affiliates and 82 Divisional affiliates. As of June, there were still 63 members who have not paid their dues. We encourage those members who have not paid their dues to do so without further delay.

We had additional responses to our **Membership Directory Opt-In** drive. Currently, we are preparing the membership directory and will be mailed to you as soon as it gets ready. At this time, it is too late to be included in the 2004 directory. If you have not done-so, you may send in your opt-in form and your name will be included in future directories.

The Fluorine Division welcomes the following new members and looks forward to their participation in the Fluorine Division's activities:

Dale Ashby, Donald Bellew, Frank Davis, Sushil Dubey, George Fozzard, Masaki Fujiwara, Garrett Gardner, Annie-Claude Gaumont, Venkat Ghajala, Michael Goodman, Evgeny Goreschnik, Veronique Gouverneur, Debasis Hazra, Mohammad Khorram Bakht, Junling Li, Sateesh Madhi, Christopher Murray, Mahesh Padigala, Eric Pak, Juan Sanz-Cervera, Janet Smith, Naota Takada, Suresh Tipparaju, Ying Wang, Lev Yagupolskii, Yurii Yagupolski, and Chengfeng Ye. The new member listing is current as of June 30, 2004. The names of other new members will be included in the next report.

We are again requesting each of our members to take a proactive role in membership recruitment in an effort to significantly increase our membership. We ask that you approach your colleagues, including graduate students, research associates, post doctoral fellows and external collaborators, whom you know to be actively engaged in some aspect of fluorine chemistry, and urge them to visit the Division's website in order to become familiar with the scope of the Division's activities and the advantages of membership. It is particularly important that we familiarize younger colleagues with the Fluorine Division's activities to help ensure the future sustainability of the Division. Those interested in joining the Fluorine Division may use the membership form attached to this Newsletter or that available on the Fluorine Division's website:

<http://membership.acs.org/F/FLUO/index.htm>

It is worth pointing out to prospective new members that the membership fee for the first year is waived.

Division Councilor Report, 228th ACS National Meeting

The ACS Council Meeting was held on Wednesday, August 25, 2004 in Philadelphia, PA. In addition to the Council Meeting, I also participated in the Joint Board-Council Committee on Science Meeting on Saturday, August 21, 2004 and the Executive Meeting of the Fluorine Division on Sunday, August 22, 2004. Detailed below are some points of interest from the Council Meeting.

The Committee on Nominations and Elections (N & E) presented to Council, a slate of 10 nominees for membership on the Committee of Committees for the 2005-2007 term. By written ballot, the Council elected Lawrence Barton, Lissa Dulany, Larry Krannich, Mary Orna and Eleanor Siebert for the 2005-2007 term.

N & E also presented to Council, a slate of nominees for membership on the Council Policy Committee for the 2005-2007 term. By written ballot, the Council elected Rita Boggs, Dean Cooke, Yorhe Rhodes and Peter Stang for the 2005-2007 term.

The Council Policy Committee presented to Council, a slate of 14 nominees for membership on the Committee on Nominations and Elections. By written ballot, the Council elected Frank Blum, Michael Doyle, Carol Duane, Ruth Hathaway and Kathleen Schultz for the 2005-2007 term; and to fill two vacancies on the Committee, Merle Eiss for the 2005-2006 term and Ellen Stechal for a 2005 term.

The Council discussed a recent petition by the Committee on Nominations to reduce the allowable length for candidates statements (President-Elect and Board of Directors) from 1000 words to 750. A resolution was defeated at Council that would have allowed candidates statements to be 1000 words or more.

As of August 24, 2004, the ACS Fall National Meeting had attracted 13,805 registrants.

The Council was informed that as of June 30, 2004, total ACS membership stood at 154,945 (less than 1% decrease from last year).

The Council voted to **accept** three amendments to the ACS Constitution and/or Bylaws. (Petitions): (a) Petition for Electronic Balloting (proposed changes to the Society's Constitution and Bylaws allowing for the option of electronic balloting); (b) Petition to Change Division Annual Report Deadline (to make the annual report deadline consistent with that of Local Sections, February 15th); and (c) Petition for Membership Requirements for Teachers (allows experienced qualified Chemistry teachers who may not otherwise fully meet the requirements, to become members based on their status and experience. The petition also allows a pre-college Chemistry or Allied-Science teacher to become an associate member).

The ACS dues for 2005 were set at \$123.

Society Finances: The Board received a report from the Committee on Budget and Finance and was advised that the Society is projected to end 2004 with a net contribution from operations of \$1,531,000, which is \$60,000 favorable to the approved budget.

The ACS conducted (for the 1st time) an Academic Employment Initiative (AEI) for candidates seeking an academic career. The candidates presented a poster on their research at Sci-Mix on Monday evening (August 23rd), and academic employers were able to interview these candidates. The 1st AEI attracted 126 candidates and 110 interviewers.

The Board continued its review of executive compensation through a report presented by Aon Consulting, a nationally recognized human resources consulting firm.

Donald J. Burton, Councilor for the Fluorine Division

Vice-Chair Programs Report

A. 228th ACS National Meeting: Philadelphia, PA, August 22-26, 2004

A one-day symposium on **Industrial Fluorine Chemistry**, organized by Drs. George Shia (Honeywell, Buffalo, NY) and Bob Syvret (Air Products and Chemicals, Inc., Allentown) took place on Monday, August 23, 2004. More than eight national and international speakers participated covering many facets of industrial fluorine chemistry. The second one-day symposium on **Analytical Fluorine Chemistry** (co-sponsored by Analytical Division) organized by Dr. Olga Sharts (Fluorotronics, San Diego) and Professor Dale Shellhamer (Point Loma University) was held on Tuesday, August 24, 2004; 13 diverse speakers participated. A half-day **General Session** with contributed papers (total 9) also took place on Sunday afternoon August 22, 2004. All sessions were well attended. The Division thanks all the organizers for their efforts in organizing these successful symposia.

B. Planned Meetings

17th Winter Fluorine Meeting, St. Pete Beach, Florida, January 9- 14, 2005

Arrangements for the 17th Winter Fluorine Meeting (Surya Prakash, Chair and Viacheslav Petrov, Co-chair) with the theme “**Ubiquitous Fluorine: From Materials to Medicine**” are proceeding smoothly. Seventeen plenary lectures have been arranged including a tutorial: *Fluorine in Drug Design*. About 52 contributed papers and 45 posters are planned. There will be student poster awards sponsored by SynQuest. Professor Shlomo Rozen will receive the 2005 ACS Award for Creative Work in Fluorine Chemistry (sponsored by Honeywell) at the 17th WFC. The title of his award lecture is “*F₂ -From Backstage to Central Stage*”. Fundraising is going on at a reasonable pace (support from PRF is also solicited). Michele Gandy from the ACS side is keeping track of all the arrangements. Please plan to participate in this important meeting and register early. For further information please go the Fluorine Division web site:

<http://membership.acs.org/F/FLUO/17WFC/INDEX17WFC.HTM>

The last day to submit contributions was September 20, 2004. The help of Dr. Phil Henderson in setting up the web pages is appreciated.

C. Future Activities

No Fluorine division events are planned for **229th ACS National Meeting, San Diego, CA, March 13-17, 2005**

Events are being planned for the **230th ACS National Meeting, Washington, DC, August 28-September 1, 2005**. Please look for announcements on the division's web site. Professors Vadim Soloshonok (University of Oklahoma) and Koichi Mikami (Tokyo Institute of Technology) have planned a two day symposium titled “*New Frontiers of Asymmetric Fluoroorganic Synthesis*”. They have lined up several speakers and have earnestly started the fund raising efforts.

Professor William Dolbier, Jr. (U. Florida) and Dr. Bruce Smart (Du Pont) are planning a series of annual colloquia to be held concurrently with ACS National Meetings on **Topics in Fluorine Chemistry**. There will be also a general session. The first colloquium may be planned for 2005 (Washington D. C. ACS National Meeting). 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.

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

Fluorine Division activities are also being planned at this international event:

- (1) A symposium titled “ *Fluorine Containing Amino Acids- Their Preparation and Application in Biological Systems* ” is arranged under the leadership of Professors Takashi Yamazaki (Japan), John Welch (USA) and John F. Honek (Canada).
- (2) A symposium titled “ *Inorganic Fluorine Chemistry: Bridging Fundamental and Applied Chemistry* ” will take place under the leadership of Professors Gary J. Schrobilgen (McMaster University) and Rika Hagiwara (Kyoto University) and Dr. William J. Casteel, Jr. (Air Products and Chemicals, Inc., Allentown).

**INTERNATIONAL MEETINGS OF INTEREST TO MEMBERS OF THE
ACS FLUORINE DIVISION**

17th INTERNATIONAL SYMPOSIUM ON FLUORINE CHEMISTRY

July 24-29, 2005, Shanghai, China

Organizer:

Professor Feng-Ling Qing

Secretary General of the 17th ISFC

Shanghai Institute of Organic Chemistry

Chinese Academy of Sciences

354 Fenglin Lu, Shanghai 200032

China

Fax: 86-21-64166128

E-mail: fluorine@mail.sioc.ac.cn

17th ISFC homepage: <http://www.sioc.ac.cn/ISFC>

**Call for Proposals
2005 Moissan Summer Undergraduate Research Fellowship
in Fluorine Chemistry**

The Fluorine Division is committed to continuing this program and actively encourages the submission of appropriate proposals for research to be conducted during the summer of 2005. 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 2005 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 2005, the Division Chair must receive an application by December 15, 2004. No more than one award will be provided to an individual applicant per year. The application, in triplicate, should be sent to:

Professor Gerald B. Hammond
Department of Chemistry
University of Louisville
Louisville, KY 40292

Alternatively, an electronic submission in the form of a Word document may be submitted to:

gb.hammond@louisville.edu

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 2005 will be announced in the Spring 2005 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, 2005.

Brief reports (two to three pages) to the Division Chair are required from the faculty member and student by October 1, 2005. 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/ Secretary (Three-year term, 2005-2007)

Brian A. O'Brien

Brian O'Brien received his B.S. degree in Chemistry from the Georgia Institute of Technology in 1975, and his Ph.D. in Chemistry (organic) from the Georgia Institute of Technology in 1980. His thesis work dealt with oxidations of alcohols by potassium chlorochromate and synthesis of acylphosphides and acylphosphines. He worked as a postdoctoral associate with Prof. Darryl DesMarteau at Kansas State University during 1981-82. During the period 1982-85, he worked as a visiting faculty member at Clemson University, teaching and doing research with Prof. DesMarteau. Most of the work involved reactions of $F_4S=NF$, reactions of SF_4 with halogen triflates and fluorosulfates, reactions of perfluoro-N-methyloxaziridine, and preparation and reactions of highly halogenated N-bromoimines. He is the author/coauthor of 12 papers, and he and his students have made professional presentations at a variety of meetings, including national and regional ACS meetings, the International Conference on Phosphorus Chemistry, and various undergraduate symposia.

He joined the faculty of Gustavus Adolphus College in 1985, where he is currently Associate Professor of Chemistry. Teaching responsibilities are concentrated in organic chemistry (introductory and advanced) and inorganic chemistry, advanced synthetic laboratory (organic and inorganic chemistry) and a senior special topics course.

Prof. O'Brien recently completed a sabbatical year with Prof. Joseph Thrasher of the University of Alabama, Tuscaloosa, doing research in organo- and fluoroorganophosphorus chemistry, new applications of the nucleophilic trifluoromethylating agent $CF_3Si(CH_3)_3$ (Ruppert's reagent), and the design and synthesis of materials for inhibition of methanol diffusion through membranes (such as Nafion7) that are under investigation for use in fuel cells. Further research in all of these areas is being continued at Gustavus, and collaboration with the Alabama group continues.

Current research interests, pursued at Gustavus during both the academic year and summer with undergraduate students, include coordination chemistry and main-group synthetic applications of phthaloylphosphides and phthaloylphosphines (including fluorinated derivatives), synthetic applications of ionic liquids, chemistry of low-coordinate phosphorus compounds such as *t*-alkylphosphalkynes and $F_2C=P-CF_3$, fluorinated phosphines such as $(CF_3)_2PH$, and preparation and chemistry of high-valent osmium and rhenium compounds.

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 visiting Professor at Politecnico di Milano; Milan, Italy, working with Professor P. Bravo on the application of chiral sulfoxides for asymmetric synthesis of fluorine-containing compounds. In 1994 he was awarded a JSPS Fellowship to join Professor Tamio Hayashi group where he worked on the catalytic asymmetric synthesis of fluoro-amino acids. In 1995 he was offered a senior scientist position at National

Industrial Research Institute of Nagoya, Nagoya, Japan, where worked for 3 years on various projects focusing on the development of new methods for asymmetric synthesis of biologically relevant fluorine-containing compounds. In 1998 he moved to University of Arizona, Tucson, USA, to join Professor Victor J. Hruby's group as a Visiting Scientist. In Tucson, his main goal was the syntheses of sterically constrained amino acids and small peptides having presupposed 3D-structures. In 2001 he joined faculty of the Department of Chemistry and Biochemistry, University of Oklahoma, Norman, USA, where he actively developed several research projects on various aspects of asymmetric synthesis and fluorine chemistry.

Vadim 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 the Fall of 2003, he organized, jointly with V. Petrov, the ACS Symposium "Fluorine-containing Synthons" (31 invited speakers) and edited Special Issue of JFC 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 the *Journal of Fluorine Chemistry*.

Executive Committee (Three-year term, 2005-2007)

Michael Gerken

Michael Gerken received his Diplom Chemiker degree from the Gerhard-Mercator Universität in Duisburg, Germany in 1995. He completed his Diploma thesis at Duisburg with Prof. Wiebren Veeman on ^{129}Xe NMR spectroscopy of xenon gas absorbed in microporous solids. During his undergraduate studies at Duisburg, Michael went to McMaster University for one year on an exchange to do research with Prof. Gary J. Schrobilgen on Zintl-anion chemistry and returned to McMaster in 1995 to pursue Ph.D. studies with Prof. Schrobilgen. Michael's Ph.D. thesis work involved the synthesis and characterization of XeO_4 and oxide fluorides of xenon(VIII), osmium(VIII), iodine(VII), and xenon(II), receiving his Ph.D. in inorganic fluorine chemistry in 2000. He then continued as a Natural Sciences and Engineering Research Council of Canada postdoctoral fellow at the Loker Hydrocarbon Research Institute, University of Southern California, where he worked in Prof. Karl O. Christe's research group for two years. In 2002, he joined the Department of Chemistry and Biochemistry of the University of Lethbridge in Alberta, Canada, as an Assistant Professor. Dr. Gerken is specializing in inorganic fluorine chemistry, focusing particularly on high oxidation state main-group and transition-metal compounds. In collaboration with Dr. Paul Hazendonk, University of Lethbridge, he is establishing the routine utilization of solid-state NMR spectroscopy for the characterization of highly reactive inorganic fluorides, particularly xenon fluorides. Michael has co-authored nineteen publications including two book chapters.

Naiyong Jing

After completing Ph.D. studies at the University of Maryland College Park under the direction of Professor Paul Mazzocchi in Electron Transfer Photochemistry of Selected Herbicides and of Aromatic Imide with Silyl Enol Ethers in 1991, Dr. Jing spent the next three years as a postdoctoral fellow at Dartmouth College working on "Synthesis of Fluorinated Inhalation Anesthetics Isoflurane and Desflurane" and on "Thermal and Photochemical Reactions of Perfluorinated Dienes and Trienes" under the direction of Professor David M. Lemal. In 1994, he joined 3M in St. Paul, Minnesota in the Industrial and Consumer Sector Research Laboratory, now a part of the Advanced Materials Technology Center, and has been working on fluorine chemistry and fluoropolymer research since then. Dr. Jing has 25 US Patents and Patent Applications in the fields of fluorine chemistry and fluoropolymers, and 18 journal articles.

James R. McCarthy

Dr. James R. McCarthy obtained his B.S. in chemistry in 1965 at Arizona State University and his Ph. D. in organic chemistry in 1965 at the University of Utah in 1969 under the direction of Professor Roland K. Robins. He joined the special assignments program at The Dow Chemical Company in 1968 and subsequently the pharmaceutical division of Dow, Merrell Dow and later Marion Merrell Dow. He worked at the research laboratories in Milan Italy in 1976, was adjunct Professor of Chemistry at Indiana University Purdue University at Indianapolis from 1979–1986 and Visiting Scientist in the Department of Pharmacology, Medical University of South Carolina in 1980. At Marion Merrell Dow in Cincinnati he was Director of Discovery Chemistry from 1990 to 1994. He joined Neurocrine Biosciences in San Diego in 1994 as Senior Director of Medicinal Chemistry. In 1999, he returned to Indianapolis where he is currently Distinguished Research Fellow at Eli Lilly.

Dr. McCarthy's research interests have been in the areas of CNS, cardiovascular, endocrine, cancer and autoimmune diseases, which has resulted in six compounds in clinical trials. He has applied organofluorine chemistry to drug design and discovered two new reactions in this area that were utilized in the synthesis of a compound currently in clinical trial. He has published over 115 articles and has over 50 US patents.

His recent professional activities include: Program Chair for the 29th National Medicinal Chemistry Symposium in 2004, member of the editorial advisory board of the *Journal of Medicinal Chemistry*, 2001-2006. Councilor for the Medicinal Chemistry Division of the ACS, 1998-2000, Chair of the 1998 Medicinal Chemistry Gordon Conference, member of the Long Range Planning Committee for the Medicinal Chemistry Division of the ACS 1994-1996, and organizer of the symposium "Fluorine in Drug Design" at the Chicago ACS meeting in 1995.

Josef Michl

Josef Michl was born in 1939 in Prague, Czechoslovakia. He received his Ph.D. in 1965 in Prague. He left Czechoslovakia in 1968 and did postdoctoral work with R. S. Becker at the University of Houston, with M. J. S. Dewar at the University of Texas at Austin, with J. Linderberg at Aarhus University, Denmark, and with F. E. Harris at the University of Utah, where he stayed and became a full professor in 1975 and served as chairman in 1979-1984. In 1986-1990 he held the M. K. Collie-Welch Regents Chair in Chemistry at the University of Texas at Austin and subsequently moved to the University of Colorado, Boulder, CO, where he

presently is Professor of Chemistry in the Department of Chemistry and Biochemistry. He is a member of the US National Academy of Sciences, the American Academy of Arts and Sciences, and the International Academy of Quantum Molecular Science, and an honorary member of the Czech Learned Society, and has been the editor-in-chief of *Chemical Reviews* since 1984. He has co-authored five books on photochemistry and polarization spectroscopy, and over five hundred scientific papers in the areas of organic, inorganic, theoretical, and physical chemistry. His past research dealt with theoretical and experimental aspects of organic photochemical reactions, interpretation of linear and magnetic circular dichroism of cyclic pi-electron systems, preparation and characterization of organic and main-group inorganic reactive intermediates, linear chain conformations, theory of sigma electron delocalization and of spin-orbit coupling in biradicals, gas-phase cluster ions formed by sputtering, and several other topics. His current research interests are a molecular-size construction set for the assembly of giant molecules and new solids, molecular electronics, chemistry of fluorine, silicon and boron, and the use of quantum chemical and experimental methods for better understanding of molecular electronic states.

Division Councilor (Three-year term, 2005-2007)

Donald Burton

Professor Burton received his Ph.D. from Cornell University, where he worked under the direction of Professor William T. Miller, Jr. After postdoctoral work at Purdue University with Professor Herbert C. Brown, he joined the faculty at the University of Iowa in 1962 and he is currently the Carver/Shriner Professor of Chemistry. Professor Burton has been an active contributor to the field of organofluorine chemistry especially in the areas of fluorinated ylides, fluorinated organometallic reagents, fluorine-containing phosphonates and more recently in the development of 1,2-difluoroethenyl synthons. He and his students have published more than 300 papers in organofluorine chemistry. In 1979, he was a Fellow of the Japan Society for the Promotion of Science, in 1985 he was an Invited Lecturer of the Chinese Academy of Sciences; in 1986 an Invited Lecturer of the Korean Advanced Institute of Science and Technology; and in 1990 an Invited Lecturer of the Soviet Academy of Sciences. In 1984, he was the recipient of the ACS Award for Creative Work in Fluorine Chemistry, and in 1990 he was a recipient of the Midwest American Chemical Society Award. In 2003, he was the recipient of the ACS Division of Fluorine Chemistry Distinguished Service Award.

Alternate Councilor (Three-year term, 2005-2007)

Paul R. Resnick

Paul Resnick received a B.A. degree in Chemistry from Swarthmore College (1955) and a Ph.D. degree in Organic Chemistry from Cornell University (1961). His thesis work, directed by Prof. W. T. Miller Jr., concerned reactions of unconjugated fluorinated dienes. After two years of postdoctoral work at the University of California (Berkeley) with Prof. William Dauben he joined the DuPont Company in 1962 as a research chemist. At DuPont his work was almost entirely devoted to fluorine chemistry, primarily fluorinated monomers and polymers. He retired from DuPont in February 2004 as a DuPont Fellow and at present is the head of a consulting company, FluoroScience LLC as well as holding adjunct professorships at the University of North Carolina (Chapel Hill) and North Carolina State University. He holds 70 United States

patents, has published 18 scientific papers and delivered many presentations at scientific conferences and Universities.

He was a charter member of the Division of Fluorine Chemistry and served the Division as a member of the Executive Committee (1979-81), Secretary-Treasurer (1982-3), Chair-Elect (1984) and Chair (1985). He was the Chair of the 7th Winter Fluorine Conference as well as a member of the organizing committees of several International Fluorine Symposia. He was a co-chair of the 12th International Fluorine Symposium in Santa Cruz, CA in 1988.

He was the recipient of the ACS Award for Creative Work in Fluorine Chemistry (1995) and the DuPont Lavoisier Medal for Scientific Achievement (1996).

Please VOTE by 15 November!

**OFFICIAL BALLOT ATTACHED TO THIS
NEWSLETTER**

**OFFICIAL ELECTION BALLOT
DIVISION OF FLUORINE CHEMISTRY OFFICES FOR 2005**

VICE-CHAIR, Secretary
(Vote for One)

Brian A. O'Brien	[]
Vadim A. Soloshonok	[]

EXECUTIVE COMMITTEE
(Vote for Two)

Michael Gerken	[]
Naiyong Jing	[]
James R. McCarthy	[]
Josef Michl	[]

DIVISION COUNCILOR

Donald Burton	[]
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ALTERNATE DIVISION COUNCILOR

Paul R. Resnick	[]
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Voting Instructions:

1. Mail the completed **Official Election Ballot** in an envelope with your signature and printed name on the return address of the envelope. **Ballots from unsigned envelopes will not be counted nor will ballots submitted in electronic form be counted.**
2. Mail the completed ballot, **postmarked** no later than **15 November, 2004**, to:

**Professor Gary J. Schrobilgen
ABB-266B
Department of Chemistry
McMaster University
1280 Main St. West
Hamilton, Ontario L8S 4M1
Canada**

AMERICAN CHEMICAL SOCIETY: DIVISION OF FLUORINE CHEMISTRY

NEW MEMBERSHIP APPLICATION (Please check box or boxes)
RENEWAL
CHANGE OF ADDRESS

NAME: _____
(Dr. / Mr. / Mrs. / Ms.)

EMPLOYER: _____

ADDRESS: _____

BUSINESS PHONE: _____ FAX: _____

HOME PHONE: _____ E-MAIL: _____

(By signing this form you agree that any information included above can be published, either electronically or in print, in the division's directory which is sent to all members)

CURRENT MEMBER OF ACS? YES NO

ACS MEMBERSHIP NUMBER: _____

CURRENT MEMBER OF DIVISION OF FLUORINE CHEMISTRY? _____

(NEW MEMBERS OF THE FLUORINE DIVISION WILL HAVE THEIR DUES WAIVED FOR THE FIRST YEAR ONLY. THE RENEWAL DUES FOR 2005 ARE \$10.00 FOR ACS MEMBERS; \$17.00 FOR NON-ACS MEMBERS)

FOREIGN MEMBERS: PLEASE BE SURE THAT YOUR CHECK IS IN U.S. DOLLARS DRAWN ON A U.S. BANK. THE SECRETARY-TREASURER WILL ACCEPT U.S. CURRENCY, AT YOUR RISK, OR CREDIT CARD CHARGES IN LIEU OF A CHECK.

DUES ENCLOSED: \$ _____

TO CHARGE YOUR DUES TO A CREDIT CARD, PLEASE COMPLETE THE INFORMATION BELOW:

CARD NAME: _____
(American Express, MasterCard, Visa)

ACCOUNT NUMBER: _____

EXPIRATION DATE: _____

SIGNATURE: _____

(All forms must be signed)

Send the completed form to: Dr. P. V. Ramachandran, Vice-Chair/Membership
Purdue University
Department of Chemistry
560 Oval Drive
West Lafayette, IN 47907-2084
FAX : (765) 494-0239