



ACS NEWS

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

MESSAGE FROM THE CHAIR



Greetings from North Carolina! It is my pleasure to open this fall newsletter with congratulations, also on behalf of the Division of Fluorine

Chemistry, to Professor **Véronique Gouverneur**, the winner of the American Chemical Society's **2015 Award for Creative Work in Fluorine Chemistry**. Véronique Gouverneur is Professor of Chemistry at the University of Oxford (Great Britain): through her work she is well known and recognized in the fields of organofluorine, organic and medicinal chemistry. Her award is sponsored by the **Juhua Group Technology Center**, the first Chinese sponsor of an ACS award.

Professor Gouverneur's award will be recognized at the 22nd Winter Fluorine Conference (January 11- 16, 2015) and during an award symposium at the Denver ACS meeting (spring 2015). You will find more details in the program chair's report.

I do want to point out at this point the **Winter Fluorine Conference**, the Division's flagship venue: The conference will be held at the Tradewinds Resort in St. Pete Beach (Florida) and is in the capable hands of two co-chairs, Robert Syvret and David Dixon. The Division is grateful to both of them for stepping up to organize a conference that will feature oral and poster presentations covering all areas

of contemporary fluorine chemistry.

Before moving on to several important opportunities for getting involved with the Fluorine Division, I would like to extend congratulations to **Surya Prakash** (University of Southern California) and **Istvan Horvath** (City University of Hong Kong), two Division members who were recognized as **ACS Fellows** at the Fall ACS National Meeting in San Francisco.

If you seek recognition for your group and talented undergraduate students, the Division is inviting applications for the **2015 Moissan Summer Undergraduate Research Fellowship**. Faculty mentors should submit the applications (5 pages) by January 31, 2015 to metzkorn@uncc.edu.

Furthermore, the Division is inviting nominations for the Division's **Distinguished Service Award**. Nomination letter (2 pages) should be submitted to metzkorn@uncc.edu no later than November 16, 2014 to ensure consideration for vote at the EC level.

In 2015, three at large seats of the Division's Executive Committee will be replaced, as Gary Schrobilgen, Véronique Gouverneur and Graham Sandford are finishing their terms of service. At the 2014 Fall ACS National Meeting, a list of candidates was approved during an open Division Member meeting. Furthermore, Christopher Junk will become Chair of the Division on January 1, 2015, thus leaving

Continued on p. 2

VICE-CHAIR MEMBERSHIP REPORT

As of August 31st, 2014, there were 557 members of the fluorine division. The breakdown is as follows:

GROUP	COUNT	%
Division Affiliate	17	3.05
Emeritus Member	55	9.87
Regular Member	410	73.61
Regular Student Member	38	6.82
Retired Member	18	3.23
Society Affiliate	5	0.90
Student Member – Undergrad	14	2.51
TOTAL	557	100

Please join me in welcoming the newest members: Meenaksh Arora, Michael Cooke, Robin Cumming, Marc Dubois, Aron Goins, Sergiu Gorun, Jamie Haner, Olushola Ibiyemi, Hongchul Kim, Hyunjoong Kim, Natalia Laptash, Wei-Fran Lee, Wenjie Li, Jeffrey Malotte, Cameron Parrish, Bryan Rambo, and Radleigh Smith, Jr.

Continued on p. 2



AMERICAN CHEMICAL SOCIETY 248TH ACS NATIONAL MEETING

SAN FRANCISCO, CALIFORNIA

AUGUST 13, 2014

COUNCIL ELECTION RESULTS

The new Committee on Committees members are Mitchell R.M. Bruce, Judith N. Currano, Helen A. (Bonnie) Lawlor, Zaida Morales-Martinez, and Robert A. Pribush for the 2015-2017 term. The new Council Policy Committee members are Lawrence Barton, Lynne P. Greenblatt, Peter C. Jurs, and Linette M. Watkins, for the 2015-2017 term, and Andrea Twiss-Brooks for the remainder of a 2014-2016 term. The new Committee on Nominations and Elections members are Lydia E.M. Hines, Robert L. Lichter, Mamie W. Moy, Anne T. O'Brien, and Eleanor D. Siebert for the 2015-2017 term.

The Candidates for President-Elect, 2015 are Peter K. Dorhout, Dean of Arts & Sciences and Professor of Chemistry, Kansas State University, Manhattan, KS; William A. Lester, Jr., Professor of the Graduate School, Department of Chemistry, University of California, Berkeley, CA; and Donna J. Nelson, Professor, Department of Chemistry and Biochemistry, University of Oklahoma, Norman, OK.

The Candidates for Directors-at-Large, 2015-2017, are Dawn A. Brooks, Sr. Director, Lilly Research Laboratories, Eli Lilly and Company, Indianapolis, IN; William F. Carroll, Jr., Vice-President, Occidental Chemical Corporation, Dallas, TX; Barbara A. Sawrey, Associate Vice Chancellor, Academic Affairs, and Dean of Undergraduate Education, University of California, San Diego, La Jolla, CA; and Ellen B. Stechel, Deputy Director, ASU-LightWorks, Tempe, AZ, Arizona State University.

The Candidates for District III Director, 2015-2017 are Pat N. Confalone, Confalone Consulting, LLC, (Retired DuPont), Wilmington, DE; and Anne S. DeMasi, Hazard Communication Manager, Chemtura Corporation, Philadelphia, PA.

The Candidates for District VI Director, 2015-2017 are Paul W. Jagodzinski, Dean, College of Engineering, Forestry & Natural Sciences, Northern Arizona University, Flagstaff, AZ; and Lee H. Latimer, Consultant, Oakland, CA. ■

MESSAGE FROM THE **CHAIR** *Continued from p. 1*

the membership-chair position open for vote as well. Please read carefully through the candidate's biographies and stay involved in Division business by **casting your vote**.

Before finishing my last newsletter as chair of the Fluorine Division, I would like to thank all officers, colleagues and friends who helped me in my tasks. You will see in the individual reports that every officer and engaged member has been contributing to the overall success. **Thank you!**

With a couple of months left for this calendar year, please do not hesitate to contact me by e-mail (metzkorn@uncc.edu) if you have any comments, concerns or questions. As always, new ideas and improvements for the Division are welcome. ■

MARKUS ETZKORN

Chair, 2014

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

DEAR MEMBERS OF THE FLUORINE DIVISION,

Greetings from Wilmington, DE! It has been my pleasure to serve you as the vice-chair of membership for the last several years. This will be my last entry for membership, as I will be taking on the role of Division Chair starting January 2015.

Our downward trend in membership seems to have stabilized in 2014. Thanks for all of your efforts in recruiting new members! We continue to encourage current members to recruit students, postdocs, and early career fluorine chemists to join our Division. Keep in mind when recruiting new members that there is no fee for the first year of membership in the Division, and after the first year the dues are quite modest (\$10 for ACS members and \$17 for non-members).

I hope to see many of you at the Winter Fluorine Conference in January, 2015. ■

The Budget and Finance (B&F) committee reviewed the Society's 2014 probable year-end financial projection, which calls for a Net Contribution from operations of \$14.4 million, or \$752,000 higher than the Approved Budget. Total revenues are projected at \$497.2 million. This is \$1.1 million or 0.2% unfavorable to the Approved Budget. The projected shortfall is primarily driven by lower-than-budgeted Electronic Services, Registration Fees, and Advertising revenues. Total expenses are projected at \$482.8 million, which is \$1.9 million or 0.4% favorable to the Approved Budget. This variance is the result of lower-than-budgeted expenses across multiple categories primarily in the Society's information services divisions (CAS and Publications). The Probable 1 projection was developed using May 31 actual financial results. Based on more recent information through July, management believes this projection will be exceeded.

The Education (SOCED) committee received an update on the new American Association of Chemistry Teachers (AACT), which is now accepting members and will officially launch September 2, 2014. AACT member benefits include access to curricular resources, such as lesson plans and multimedia; professional development opportunities; a subscription to *ChemMatters*; and an online member network. SOCED voted to approve revisions to the current policy statements on hands-on laboratory science, science and technology funding, and visa restrictions. The statements will go to the Board of Directors for approval at its December meeting.

The Science (ComSci) committee remains focused on three areas: increasing understanding of the emerging frontiers in science, recommending eminent chemical scientists for prestigious external awards, and developing public policies to advance science in society. ComSci has identified two multidisciplinary areas that hold great promise for fostering innovation and opportunities for chemistry-related scientists: advanced materials and the chemistry of clean and renewable energy. ComSci has also completed four on-demand video interviews with Nobel Laureates and other celebrated scientists, which will be linked with the onsite emerging science forums in 2015.

The Economic and Professional Affairs (CEPA) committee reported that the unemployment rate for all ACS chemists has dropped from 3.5% in March 2013 to 2.9% as of March 2014. However, the unemployment rate for new chemistry graduates as of August 2013 is considered to be an all-time high of 14.6%. The number is higher when we isolate bachelor's level graduates, for whom the rate is 15.8%. The Council VOTED to approve the Professional Employment Guidelines.

The Committee on Meetings and Expositions (M&E) committee reported that 11,847 papers were accepted for the 248th National Meeting in San Francisco. As of August 13, total attendance was 15,761. The Exposition had 432 booths with 285 exhibiting companies. The Committee voted to recommend to the Board of Directors the following sites for National Meetings:

BOSTON – Fall 2024, 2029, 2031

SAN DIEGO – Spring 2025, 2031, and Fall 2027

NEW ORLEANS – Spring 2027, 2032

CHICAGO – Fall 2022

The Multidisciplinary Program Planning Group is proposing the following 2018-2019 national meeting themes to the divisions for their consideration:

2018 SPRING – Energy Solutions and the Environment

2018 FALL – Chemistry – from Bench to Market

2019 SPRING – Chemistry for New Frontiers

The M&E Committee heard an update on the Meeting Abstracts Programming System (MAPS). The new system will launch August 25 in preparation for the Denver National Meeting. Regional Meetings and specialty conferences will use MAPS starting in January 2015. M&E has voted to strengthen the current recording policy at National Meetings by including enforcement language. Failure to follow the policy could result in disciplinary action up to and including expulsion from the meeting.

The Divisional Activities (DAC) committee is conducting a pilot program with the ACS Presentations on Demand Coordinating Editor regarding a new type of recorded meeting content – three to five-minute videos (ACS POD Shorts) that focus on the most notable aspects of a full-length presentation. DAC voted to fund eight Innovative Project Grants, totaling \$33,750. DAC is also developing a process to more readily permit divisions to benefit from one another's innovations.

The Membership Affairs (MAC) committee reported that as of June 30, the total ACS membership was 158,869, a net increase of 512 since May of this year. The number of international members has grown this year by 312, to almost 25,000. The number of current, unpaid members declined in June and is 13% lower than June 2013. As of July 1, automatic renewal (on credit card) became available. The Committee also voted to extend its current test of an introductory membership offer to those who join the Society at non-ACS conferences and events to include the graduate students and potential Regular Members who attend ACS on Campus events worldwide each year. ■

At the 248th ACS National Meeting in San Francisco, CA (August 10-14, 2014) the Division hosted three Symposia. The ACS meeting started on Sunday with a full day Symposium on F18 radiochemistry organized by Allan Packard, Gilles Tamaghan and Neil Vasdev. This excellent meeting was well attended and attracted a lot of attention due to in-depth coverage of current development in this rapidly developing field. The two-day Symposium in honor of Teruo Umemoto, the 2014 winner of the Award for Creative Work in Fluorine Chemistry (organizers David O'Hagan, Bill Dolbier and

Viacheslav Petrov) was well attended and over 20 papers were presented at this meeting. In addition, a four-day Symposium on the interface of fundamental and applied fluorine chemistry to honor Gary J. Schrobilgen's contributions to the field was hosted (organizers Michael Gerken, Karsten Koppe, Kazuhiko Matsumoto, Sebastian Riedel and Robert Syvret) with over 40 papers being presented.

On the behalf of the Division, I also would like to thank all symposia organizers at the 248th ACS meeting for their dedication and hard work in putting together excellent programs.

NOTEWORTHY MEETINGS IN 2014-2015:

2ND INDIAN INTERNATIONAL SYMPOSIUM ON FLUORINE CHEMISTRY (IISFC-2014) will be held in CSIR-IICT, Hyderabad, India (November 03-07, 2014). The conference will feature the versatility of fluorine in organic, inorganic, pharmaceutical, strategic fluorochemicals and materials. More details can be found at <http://www.fluorineindia2014.org/>

2015 promises to be very busy for professionals attending meetings on a regular base. Here is the list of meetings of interest for 2015:

22ND WINTER FLUORINE CONFERENCE, JANUARY 11-16, 2015, ST PETERSBURG, FL

This biannual Conference will take place in the TradeWinds Resort Hotel at the beginning of next year. David Dixon and Robert Syvret will host this meeting as co-Chairs. The deadline for abstract submission is November 7, 2014. The registration for the conference is open until Friday, December 12, 2014. More details can be found at Fluorine Division website: <http://fluorine.sites.acs.org/22ndwfc.htm>.

At the **249TH ACS NATIONAL MEETING IN DENVER, CO** (March, 2015) the Division is planning to have two Symposia, honoring Veronique Gouverneur - the 2015 recipient of the ACS Award for Creative Work in Fluorine Chemistry and Karl Christe – the winner of the 2015 ACS Award for Creative Research and Applications of Iodine Chemistry. David Dixon organizes both Symposia.

At the **FALL ACS NATIONAL MEETING** (August, 2015, Boston MA) the Division is planning to hold another meeting on ^{18}F Radiochemistry, organized by Neil Vasdev.

21TH INTERNATIONAL SYMPOSIUM ON FLUORINE CHEMISTRY, Cernobbio, Como, Italy, August 23-28, 2015

PACIFICHEM 2015, Dec. 15-20, 2015 Honolulu, HI, USA

The Division is planning to organize two Symposia at this meeting:

- "Fluorinations and Fluoroalkylations"
Organizers: Surya Prakash, Tobias Ritter, Koichi Mikami, Jinbo Hu and Santos Fustero
- "**Current Trends and Interconnectivities Among Fundamental and Applied Inorganic Fluorine Chemistry**"
Organizers: Kazuhiko Matsumoto, Rika Hagiwara, Gary Schrobilgen, Helene Mercier, Robert Syvret

18TH EUROPEAN SYMPOSIUM IN FLUORINE CHEMISTRY, Kiev, Ukraine, 2016

22ND INTERNATIONAL SYMPOSIUM ON FLUORINE CHEMISTRY, Oxford, UK, 2018 ■

The fiscal state of the Division of Fluorine Chemistry continues to be very strong thanks mostly to strong fundraising efforts for Fluorine Division sponsored symposia. The Table below provides a snapshot view of the Division's assets as of 30 September 2014 and the comparative numbers for a year prior, 30 September 2013.

ASSETS (as of 30 September 2014)

	(\$) as of 30 September 2013	(\$) as of 30 September 2014
WELLS FARGO BANK ACCOUNT	\$28,486	\$6,780
AMERIPRISE FINANCIAL SPS ADVANTAGE ACCOUNTS:		
Moissan SURF Fund	\$88,333	\$92,689
Long-term Investment Account	\$143,144	\$147,510
Ameriprise SPS sub-total	\$231,477	\$240,199
TOTAL ASSETS	\$259,963	246,979
Percent change (total)		-5.0%
Percent change (SPS only)		+3.8%

The Division's total assets have decreased approximately 5% over the course of the 12 month period ending September 30, 2014. This decrease is due to the support of Division programming at the Fall ACS National Meeting that was held in San Francisco in August 2014.

Excluding corporate donations, the long term investment accounts held at Ameriprise have appreciated nominally over the past 12 months, increasing 4.8% as of 30 September 2014.

FINANCIAL HIGHLIGHTS/OUTLOOK FOR THE DIVISION FOR FISCAL YEAR 2014:

- > The Division awarded 2 Moissan Summer Undergraduate Research Fellowships in the amount of \$5,000 each to Professors Jean-François Paquin (Laval University) and David Vivic (Lehigh University).
- > The Division provided \$18,000 in financial support to 3 Fluorine Division Symposia that were held at the Fall ACS National Meeting in San Francisco.
- > The Division provided \$500 in support to the ACS Division of Chemical Education to support the GSSPC Symposium held at the ACS National Meeting in Dallas, March 2014.
- > The Division provided \$2,000 in support to the Division of Polymer Chemistry for sponsorship of Fluoropolymers Conference 2014 held in San Diego in October. ■

AVAILABLE FOR PURCHASE | HENRI MOISSAN DOCUMENTARY

DURING THE SPECIAL HENRI MOISSAN SESSION AT THE 17TH ESFC IN PARIS, a film about “the life and achievements of Henri Moissan and the future of his discoveries” was shown. The 20-minute film contains many original documents and interviews. It is available for purchase on DVD and should be of general interest to the members of the Fluorine Community.

Division members interested in purchasing the film should contact the film's director **M. D. Bour** (A3V Studios, 1 avenue des bleuets, 77124 Penchard, France) at daniel.bourlevrai@free.fr or, alternatively, the co-director **M. Jean Trouchaud** at trouchaud.jean@wanadoo.fr.

THE PRICE IS 15 EURO + SHIPPING FEES. ■



BIOGRAPHICAL DATA OF THE CANDIDATES FOR OFFICES OF THE DIVISION OF FLUORINE CHEMISTRY

EXECUTIVE COMMITTEE (Three-year term, 2015-2017)

BRUNO LINCLAU graduated from the University of Ghent (Belgium) in 1992. His final year undergraduate thesis was carried out at Leicester University (UK) as an ERASMUS exchange student with Dr P.R. Jenkins. Back in Ghent, he joined the group of Professor M. Vandewalle for his PhD (1992–1996, with a fellowship from the Belgian “National Fund of Scientific Research”), where he completed the total synthesis of several Vitamin D analogues. This was followed by a postdoctoral stay with Professor D.P. Curran in Pittsburgh PA (USA) (1997–1999), with a fellowship from the “Belgian American Educational Foundation” and from the University of Pittsburgh. There he worked on fluorine chemistry applications in combinatorial chemistry. In 1999, he joined the Department of Chemistry at Southampton University (UK) where he is currently a Reader and heading the Organic Chemistry section. He has been a “Professeur Invité” at the University of Rouen (France) in June 2009, and in Oct 2013 he was appointed Visiting Professor at the University of Ghent, Belgium. His independent research largely involves organofluorine chemistry with as main aim the investigation of the impact of fluorination on physical properties and bioactivities of compounds. He has co-authored more than sixty publications. He is a member of the ACS since 1998 (Fluorine, Carbohydrate, and Organic Chemistry Divisions), of the Royal Society of Chemistry (RSC) Fluorine and Carbohydrate Subject Group Committees, and of the Society of Chemistry and Industry (SCI).

THOMAS MATHEW is a Senior Research Scientist at the Loker Hydrocarbon Research Institute, University of Southern California. After receiving a Ph.D. from University of Kerala, India in 1989, he did his initial postdoctoral studies at the National Institute for Interdisciplinary Sciences and Technology (NIIST, CSIR), Trivandrum, India. Later as a Humboldt Fellow, he spent two years (1994–1996) with Professor Horst Prinzbach at Albert-Ludwigs University, Freiburg, Germany. In 1996, he joined the research group of Professor George A. Olah and Professor G. K. Surya Prakash in the Loker Institute. He was a Visiting Fellow at the Institute of Advanced Material Study, Kyushu University (with Professor Shuntaro Mataka, 2003), Humboldt Visiting Fellow at Albert-Ludwigs University, Freiburg (2003), and a Visiting Professor in the Shanghai Institute of Organic Chemistry (Professor Jinbo Hu), Chinese Academy of Sciences (2012). He is a Fellow of the Royal Society of Chemistry and active member of

the Fluorine Division of the American Chemical Society. His main research interests are in superacid chemistry, hydrocarbon chemistry focusing on many aspects of the “Methanol Economy”, development of new catalysts and organic synthetic methods, fluorine chemistry and photochemistry. He has over 150 papers and presentations together and delivered 24 invited lectures. Along with supervising many graduate and undergraduate students at the Loker Institute, he also volunteers in many scientific programs and competitions such as California State Science Competitions, Siemens and Intel Science Talent Search competitions as judge, supervisor and mentor for many high school students introducing the next generation to many highlights of scientific research in the Chemistry World.

DR. KAZUHIKO MATSUMOTO studied chemistry at Kyoto University where he received his PhD degree in 2004 in the group of Profs. Rika Hagiwara and Yasuhiko Ito. He extended his research areas as a postdoc at Aichi Institute of Technology with Prof. Tsuyoshi Nakajima (surface fluorination of graphite anode for Li ion batteries), at McMaster University with Prof. Gary Schrobilgen (synthesis and characterization of new Xe(VI) species), and at Kyoto University with Prof. Rika Hagiwara (chemistry on HF production process and ionic liquids). Since 2009, he has been an Assistant Professor at Kyoto University. His research interests are in inorganic and physical fluorine chemistry including structural characterization of new chemical species, synthesis and application of ionic liquids, and evaluation of electrolyte and electrode materials for electrochemical devices.

Kazu co-organized fluorine chemistry symposia at Pacifichem 2010 (Honolulu) in 2010 and 248th ACS Meeting (San Francisco) in 2014 and served as a secretary of the 20th International Symposium on Fluorine Chemistry (Kyoto) in 2012. He is a member of the ACS Fluorine Division, the Society of Fluorine Chemistry, Japan, the Chemical Society of Japan, the Electrochemical Society, and the Electrochemical Society of Japan. He received the Sano Award for Young Researchers (the Electrochemical Society of Japan) in 2013, the Australian Journal of Chemistry Prize in 2011 (4th Congress on Ionic Liquids, Washington), and the Molten Salt Prize for Young Researchers (Molten Salt Committee, the Electrochemical Society of Japan) in 2009.

NORIO SHIBATA (born July 3, 1965 in Osaka, Japan) is a Professor at the Nagoya Institute of Technology, since 2008. He received a Ph.D. (1993) in pharmaceutical sciences from Osaka University under the direction of Professor Yasuyuki Kita. He worked at Dyson Perrins Laboratory (Professor Sir Jack. E. Baldwin), Oxford University (JSPS fellow, 1994–1996), Sagami Chemical Research Institute (Dr. Shiro Terashima, 1996), after which he was a lecturer at Toyama Medical & Pharmaceutical University (1997–2003), and an associate professor at the Nagoya Institute of Technology (2003–2008). He also acted as a visiting professor (2008, 2012) at the University of Rouen. He received the “Takeda Pharmaceutical Company Award in Synthetic Organic Chemistry, Japan 2000”, the “Fujifilm Award in Synthetic Organic Chemistry, Japan 2003”, the “Incentive Award in Synthetic Organic Chemistry, Japan (2004)”, the “RSC Fluorine Prize (inaugural Prize in 2005)”, the “20th Lecture Award for Young Chemists in Chemical Society of Japan (2005)”, the “Fluorine Chemistry Research Incentive Award in Research Foundation ITSUU Laboratory (inaugural Prize in 2009)”, “The Pharmaceutical Society of Japan Award for Divisional Scientific Promotions (2010)”, “Prizes for Science and Technology, The Commendation for Science and Technology by the Minister of Education, Culture, Sports, Science and Technology (2014)”, and “Wei-Yuan Huang Fluorine Prize in Chinese Chemical Society (2014)”. His research interests are synthetic and medicinal fluorine chemistry.

GARY J. SCHROBILGEN, Professor, Department of Chemistry, McMaster University, is a native of Eastern Iowa and received his B.S. degree in chemistry from Loras College (Dubuque, Iowa) and a Ph.D. in inorganic chemistry from McMaster University under the supervision of Prof. Ronald J. Gillespie. After two years of research as a Natural Sciences and Engineering Research Council (NSERC) of Canada Postdoctoral Fellow at Leicester University, U.K., Dr. Schrobilgen joined the McMaster Chemistry Department as a NSERC University Research Fellow (1980-90) and member of faculty in 1980, and was promoted to full Professor of Inorganic Chemistry in 1988. He has made important contributions in two major areas of synthetic and structural inorganic chemistry; fluorine chemistry and the polyatomic anions of the main-group elements. Both programs are heavily reliant upon the use of modern methods of structural elucidation, including multi-NMR spectroscopy, X-ray crystallography, and vibrational spectroscopy, as well as quantum-chemical calculations, to characterize novel bonding situa-

tions among main-group and high-oxidation state transition element species. He is best known for his work in the experimentally challenging field of inorganic fluorine chemistry, encompassing the syntheses and structural characterization of a large percentage of the known compounds of krypton and xenon as well as fluoro- and oxo-fluoro-derivatives of the main-group and transition elements in their highest oxidation states and at the limits of coordination. He is also known for his work in two areas of radiochemistry, which involve the syntheses of ⁹⁹Tc fluorine compounds that are relevant to the uranium fuel cycle, and ¹⁸F-labelled radiopharmaceuticals of use in PE (positron emission) imaging of the human brain. His fundamental work has been of importance in our understanding of structure and chemical bonding in so-called “hypervalent” molecules and main-group ring, cage, and cluster species.

He is recipient of the President’s Award for Excellence in Graduate Supervision at McMaster University (1997); the American Chemical Society Award for Creative work in Fluorine Chemistry (1998); several Canadian Society for Chemistry Awards: the Alcan Lecture Award (2002), the Award for Pure or Applied Chemistry (2002), the E. W. R Steacie Award in Chemistry (2003); and has held a Canada Council Killam Research Fellowship (1998-99). He was inducted as a Fellow of the Royal Society of Canada (Canada’s National Academy) in 1999. Professor Schrobilgen has served on the Executive Committee of the Division of Fluorine Chemistry of the American Chemical Society, holding the positions of Vice Chair/Secretary (2002-2004), Chair (2005) and Past Chair of the Fluorine Division (2006), as well as serving as a member of the Executive Committee at Large (2007-2011). Most recently, he has received a senior Humboldt Forschungspreis (Research Award) from the Alexander von Humboldt Foundation (2010), the McMaster University (2011) Distinguished Alumni Award in the Sciences, the Brock University Distinguished Alumni Award in Mathematics and the Sciences (2014), the Lifetime Achievement Award in Fluorine Chemistry sponsored by SciFluor (2012), and was elected a Fellow of the American Chemical Society (2013). A symposium in his honor and entitled, “Exploring the Frontiers of Fundamental and Applied Fluorine Chemistry,” was recently held at the 248th National Meeting of the American Chemical Society, San Francisco, CA August 11-14, 2014.

BIOGRAPHICAL DATA OF THE CANDIDATES FOR OFFICES OF THE DIVISION OF FLUORINE CHEMISTRY *Continued*

NEIL VASDEV, PH.D., is the Director of Radiochemistry at Massachusetts General Hospital and an Associate Professor in the Department of Radiology at Harvard Medical School. He concurrently graduated (*summa cum laude*) with a Bachelor of Science in Chemistry and Bachelor of Arts in Psychology from McMaster University in 1998, under the co-supervision of Prof. Raman Chirakal and Prof. Gary Schrobilgen. Prior to starting graduate school he gained experience working in industry as a chemist at two major pharmaceutical companies: Astra Pharma and Glaxo Wellcome, and a radiopharmacy. In 2002, he completed his Ph.D. dissertation in PET radiopharmaceutical chemistry where he developed new agents to image the living human brain as well as several cancers, while holding a national scholarship (Natural Sciences and Engineering Research Council of Canada (NSERC)). He completed an NSERC postdoctoral fellowship to further his training in PET radiopharmaceutical chemistry in the Department of Functional Imaging at the E.O. Lawrence Berkeley National Laboratory, under the supervision of Prof. Henry VanBrocklin. In 2004, he joined the University of Toronto's Department of Psychiatry and the PET group at the Centre for Addiction and Mental Health, where he worked closely with Prof. Alan Wilson. Neil has focused his independent radiopharmaceutical chemistry research program on developing radiolabelled imaging agents, often by multi-step radiochemistry reactions, for investigating disorders of the human brain and has applied this technology to prepare cancer imaging agents. Several of the radiotracers developed by his laboratory are in preclinical use worldwide and many of these compounds have been used for first in human neuroimaging studies.

Neil Vasdev has received many academic, teaching and presentation awards for his research. He has been an active member of several national and international chemistry and nuclear medicine societies and has been an active member of the ACS Division of Fluorine Chemistry since 1998 has

co-organized Radiochemistry Symposia in the Division since 2012. His distinctions include a Moissan Fellowship from the Division in 2005, the First Place Young Investigators Award (2006) from the Radiopharmaceutical Sciences Council of the Society of Nuclear Medicine, as well as young investigator awards from the University of Toronto, Ontario Ministry for Research and Innovation, and the Canadian Society of Nuclear Medicine.

VICE-CHAIR/MEMBERSHIP (Three-year term, 2015-2017)

DAVID VICIC was born in the state of Pennsylvania in the USA and received a B.A. degree in chemistry from Johns Hopkins University in 1994. During his undergraduate studies he became fully invested in chemistry after performing internships at the *Institut de Chimie des Substances Naturelles* in Gif-sur-Yvette, France and at Rhone-Poulenc Rorer (currently Sanofi-Aventis) in Soisy-sur-Seine, France. David then received his Ph.D. degree from the University of Rochester in 1999. After an American Cancer Society Postdoctoral Fellowship at the California Institute of Technology, he joined the faculty at the University of Arkansas in 2002. There he was promoted to Associate Professor in 2007, and moved to the University of Hawaii later the same year. In 2012, he returned to his home state to join the faculty at Lehigh University, where he is currently a Professor of Chemistry. David has co-authored more than 70 publications including book chapters on experimental methods and techniques for handling air-sensitive compounds, and most recently on "Transition Metal Catalyzed Difluoromethylation, Difluoromethylenation, and Polydifluoromethylenation" in the *Organometallic Fluorine Chemistry issue of Topics of Organometallic Chemistry* (in press). His research interests focus on how to use more earth abundant and environmentally benign metals like copper, nickel, and iron to perform fluorination and fluoroalkylation reactions. ■

**PLEASE VOTE FOR
NEW CANDIDATES
BY NOV. 30, 2014!**

**BIOS
PG.
6**

**MEMBERS SHOULD HAVE
BEEN EMAILED A BALLOT.
TO REQUEST ONE, EMAIL
SYVRETRG@AOL.COM.**

AMERICAN CHEMICAL SOCIETY
DIVISION OF FLUORINE CHEMISTRY

- NEW MEMBERSHIP APPLICATION
 RENEWAL
 CHANGE OF ADDRESS

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

Employer: _____

Address: _____

Business Phone: _____ Fax: _____

Home Phone: _____ E-mail: _____

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

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

CURRENT MEMBER OF ACS? YES NO

IF YES, MEMBERSHIP NUMBER: _____

NEW MEMBERS OF THE FLUORINE DIVISION WILL HAVE THEIR DUES WAIVED FOR THE FIRST YEAR ONLY. THE RENEWAL DUES FOR 2015 ARE \$10.00 FOR ACS MEMBERS AND \$17.00 FOR NON-ACS MEMBERS (FOREIGN MEMBERS: PLEASE MAKE SURE THAT YOUR CHECK IS IN U.S. DOLLARS DRAWN ON A U. S. BANK.) TO MAKE A PAYMENT BY CREDIT CARD PLEASE CONTACT THE TREASURER, BOB SYVRET, AT SYVRETRG@AOL.COM

Dues Enclosed: \$ _____

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

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

2015 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 2015. 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 2015 are currently \$5,000 (\$4000 salary + up to \$1000 chemicals/supplies) for a ten-week program. In addition, a limited stipend will be available for the student to present his/her research results at an ACS sponsored meeting. Research expenses in connection with this program will be the responsibility of the faculty member or his/her department or institution. The number of awards to be made will be dependent upon the funds available. Applications for funding under this program may be submitted by a faculty member conducting research in fluorine chemistry. The application should be no longer than five pages and should outline the specific research to be undertaken by the student, should present reasons for anticipating progress by the student during the allotted time, and should suggest how the program might encourage the student to pursue graduate work in fluorine chemistry. All applications must state that the faculty member has adequate facilities and sufficient additional funds to cover research expenses for the proposed research program, and must be signed by the applicant. To be considered for an award in 2015, the Division Chair must receive an application by January 31, 2015.

The electronic submission should be in the form of a PDF document and sent to:
metzkorn@uncc.edu

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 2015 will be announced in the Spring 2015 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, 2015. Brief reports (two to three pages) to the Division Chair are expected from the faculty member and student by October 1, 2015. 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. ■



ACS NEWS

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

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

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

2014 EXECUTIVE COMMITTEE

CHAIR

MARKUS ETZKORN
UNC Charlotte,
Department of Chemistry
9201 University City Blvd.
Charlotte, NC 28223
704-687-4443
704-687-3151 FAX
metzkorn@unc.edu

VICE-CHAIR / SECRETARY

RALF HAIGES
Loker Hydrocarbon
Research Institute
University of Southern California
Los Angeles, CA 90089-1661
213-740-3197 (office)
213-821-5973 (lab)
haiges@usc.edu

INTERIM VICE-CHAIR / MEMBERSHIP

CHRISTOPHER JUNK
DuPont Central Research & Development
Experimental Station
Building E500, Room 2604B
Wilmington, DE 19880
302-695-4550
302-868-4971 FAX
Christopher.P.Junk@usa.dupont.com

VICE-CHAIR / PROGRAMS

VIACHESLAV PETROV
Dupont Central Research
& Development
P.O. Box 80500
Wilmington, DE 19880
302-695-1958
Vlacheslav.a.petrov@dupont.com

TREASURER

ROBERT G. SYVRET
1156 Clearwood Drive
Allentown, PA 18103
484-612-3862
syvretg@aol.com

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