



ACS NEWS

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

MESSAGE FROM THE CHAIR



GREETINGS FROM LOS ANGELES, CALIFORNIA! I hope you all had and continue to have a productive and rewarding year.

It is my pleasure to congratulate Professor **Antonio Togni**, the recipient of the **2017 ACS Award for Creative Work in Fluorine Chemistry**.

Antonio Togni is Professor of Chemistry and Vice-Rector for Doctoral Studies at the ETH Zürich in Switzerland. He is well known and recognized for hypervalent iodine based trifluoromethylation reagents as well as the development of chiral ferrocene based ligands for catalytic systems. Prof. Togni's award will be recognized with an award symposium at the 2017 Spring ACS National Meeting in San Francisco. You will find more details about the meeting in the report of the program chair. The 2017 Fluorine Award is being sponsored by the Division of Fluorine Chemistry.

I would also like to extend congratulations to the two Division members **Robert G. Syvret** (Arkema) and **Joseph S. Thrasher** (Clemson University) who were recognized as **2016 ACS Fellows** at the Fall ACS National Meeting in Philadelphia. Please contact me directly if you have a suggestion for the Fluorine Division to consider for the 2017 nomination process.

At this point, I do want to highlight the upcoming 23rd Biennial Winter Fluorine

Conference being held at the Hilton Clearwater Beach Resort in Clearwater Beach, FL in January 2017. The Division is grateful to Robert Syvret and Markus Etzkorn for organizing and chairing a conference that will feature oral and poster presentations covering all areas of contemporary fluorine chemistry.

The Division is still looking for a corporate or academic sponsor for the Fluorine Award. At the moment, the Fluorine Division is the sole sponsor of the award, but we would much prefer to have it sponsored externally. Another concern is the dwindling number of award nominations. As the smallest Division of ACS, the Fluorine Award is extremely important to the Fluorine Division. Please increase your support by spending the time to nominate deserving candidates and helping us identify possible sponsors. Please contact me or any officer of the Division if you have any questions or comments, or if you wish to participate.

The Division is inviting applications for the **2017 Moissan Summer Undergraduate Research Fellowships** (SURF) in order to recognize and support talented undergraduate students. You can find a description of the SURF contained within this newsletter. Faculty members should submit the applications (5 pages) by January 31, 2017 to haiges@usc.edu.

It is my honor to continue serving the Division of Fluorine Chemistry as Chair and

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VICE-CHAIR MEMBERSHIP REPORT

As of March 2016 there were 566 members of the Fluorine Division. The breakdown is as follows:

GROUP	COUNT	%
Division Affiliate	13	2.32
Emeritus Member	53	9.45
Regular Member	412	73.44
Regular Student Member	43	7.66
Retired Member	16	2.85
Society Affiliate	9	1.60
Student Member – Undergrad	15	2.67
TOTAL	566	100

Please join me in welcoming the newest members in 2016: Agou Tomohiro, Amanda Baxter, Steven Belina, Benjamin Burke, Wilson Butler, Ransheng Ding, Kazunobo Fukushi, En-Qing Gao, Nicholas Goldacker, Daniel Herfurth, James Inkster, Sadish Karunaweera, Dustin Kisner, Rene Koenigs, Jordon Kramer, Thomas Lectka, Thomas Lewandowski, Ashley Lick,

Continued on p. 2



NEIL VASDEV

Two major fluorine chemistry meetings took place in Europe this summer. The **5th International Symposium on Organofluorine Compounds in Biomedical, Materials and Agriculture Sciences**

(“**Bremen Fluorine Days**”) was held in Bremen, Germany (July 3-7, 2016) and was Chaired by Dr. Gerd-Volker Röschenthaler. The symposium spanned four days with invited and contributed talks and posters to provide a forum for active discussions on the most current organofluorine chemistry among participants from academia and industry. This meeting was followed by the **18th European Symposium on Fluorine Chemistry (August 7-12, 2016)** Kiev, Ukraine, and with Dr. Valeriy Kukhar as the Chair along with conference co-Chairs, Dr. Yuriy Shermolovich and Dr. Yuriy Yagupolskii. During the meeting, over one hundred delegates from more than 20 countries presented their latest research in the different areas of fluorine chemistry.

The Division of Fluorine Chemistry was the primary sponsor of a 2-day **Radiochemistry Symposium at the 252nd Fall ACS National Meeting** (August 21-25, 2016) in Philadelphia, PA. This meeting was co-sponsored by MEDI, INORG, NUCL and POLY. These symposia were organized by Neil Vasdev, Alan Packard, Gilles Tamagnan, Suzy Lapi, Carolyn Anderson, Jacques Lux, and Adah Almutairi. The meeting featured over 35 lectures (invited

and contributed) and a FLUO poster session. At this ACS National Meeting, an award ceremony was conducted for the 2016 ACS Fellows. Congratulations to two key members of our Division who received this well-earned recognition for their contributions to science and the ACS community: **Dr. Robert (Bob) Syvret** and **Dr. Joseph Thrasher**.

Please note two upcoming symposia to be held in early 2017:

Firstly, the **23rd Winter Fluorine Conference** will be held in Clearwater, Florida (note the change in venue from past years) from January 15-20, 2017. It is important to note that **abstract submission closes on October 31**. The meeting is chaired by Dr. Bob Syvret and co-chaired by Dr. Markus Etzkorn.

Secondly, at the **253rd Spring ACS National Meeting in San Francisco, CA** (April 2-6, 2017) the Division will organize a Symposium in Honor of **Dr. Antonio Togni** from the Swiss Federal Institute of Technology, ETH Zurich, Switzerland, **Winner of the 2017 ACS Award for Creative Work in Fluorine Chemistry**. The meeting will be organized by Dr. John Welch. In addition to this Award Symposium **there will also be an Open Session in FLUO. The abstract submission window is now open and closes on October 31**.

On the behalf of the Division, I would like to thank all Symposia Organizers, as well as the Speakers and Chairs for their dedication and hard work in putting together excellent programs.

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MESSAGE FROM THE CHAIR

Continued from p. 1

I am very thankful to the members of the Executive Committee for their help and support. Please do not hesitate to contact me directly (haiges@usc.edu) if you have any comments, concerns or questions. New ideas, improvements or criticism for the Division are also always welcome. With just a few months left in this calendar year, I wish you a productive season of research and hope to see many of you at the Winter Fluorine Conference in Florida in 2017. ■

RALF HAIGES
Chair, 2016

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



DAVID VICIC

Chen Liu, Michael McCarty, Jonathan McConathy, Pavel Mykhailiuk, Benjamin Scheibe, Kassandra Sedillo, Siddhartha Shenoy, Sean Smith, Zeru Tekie, Mathew Thakur, Stephen Thompson, Douglas Turnbull, Qingmin Wang, Philipp Wanner, Gengyang Yuan, Yongan Yuan, and Jun-Long Zhang.

I hope to encourage you at this time to become a member of the American Chemical Society Division of Fluorine Chemistry. As a member, you have drastically reduced rates at the Winter Fluorine Conferences, as well as eligibility for Division awards and travel reimbursements. We encourage current members to recruit students, postdocs, and early career fluorine chemists to join the Division. To become a member of the Division of Fluorine Chemistry, please navigate to this page: <http://www.acs.org/content/acs/en/membership-and-networks/td/join.html> and complete the application form. To be a full member you also have to be an ACS member. You can be an affiliate of the Division without being a member of the ACS. Please see the ACS website for further details. We welcome any suggestions for activities that will help maintain and expand our membership. ■

UPCOMING SYMPOSIA TO NOTE:

23RD WINTER FLUORINE CONFERENCE, Clearwater, FL, January 15-20, 2017

PLEASE NOTE CHANGE IN LOCATION: Conference will be held at the Hilton Clearwater Beach in Clearwater, Florida. Abstract submission closes on October 31, 2016. | Both housing and normal registration close on December 9, 2016. Chair: Bob Syvret and co-chair: Markus Etz Korn | Conference website: <http://winterfluorineconference2017.com>

253RD SPRING ACS NATIONAL MEETING, San Francisco, CA, April 2-6, 2017

Abstract submission deadline: October 31, 2016 | Conference website: <http://fluorine2016.eu/venue.html>
In addition to the Award Symposium there will also be an Open Session in FLUO. The abstract submission window is now open and closes on October 31 | <https://www.acs.org/content/acs/en/meetings.html>

100TH CANADIAN CHEMISTRY CONFERENCE AND EXHIBITION, Toronto, Ontario, May 28-June 1, 2017.

General chemistry sessions and a radiochemistry symposium will be organized. | www.csc2017.ca

22ND INTERNATIONAL SYMPOSIUM ON FLUORINE CHEMISTRY, July 22-27, 2018

Chairs: Drs. Veronique Gouverneur, David O'Hagan, and Graham Sandford | More info will be posted as it becomes available. ■

Please plan to attend the **23RD WINTER FLUORINE CONFERENCE, JANUARY 15-20, 2017 AT THE HILTON CLEARWATER BEACH RESORT IN CLEARWATER, FLORIDA.** (See pages 4 & 5 for more details.)

Please check the conference website frequently at <http://winterfluorineconference2017.com> for conference updates.



THANKS TO OUR SPONSORS:

The following are the current sponsors of the 23RD WINTER FLUORINE CONFERENCE AS OF SEPTEMBER 30, 2016. We are very grateful to these companies for their support of the 23rd Winter Fluorine Chemistry:





ACS Division of Fluorine Chemistry



23RD WINTER FLUORINE CONFERENCE

JAN. 15-20, 2017 CLEARWATER BEACH, FLORIDA

**FULL
PRICE
REGISTRATION**

OCT. 1 TO
DEC. 9, 2016

**LATE
REGISTRATION
INCLUDING ONSITE**

AFTER
DEC. 9, 2016



HILTON CLEARWATER BEACH
400 Mandalay Ave.
Clearwater Beach FL 33767 USA
Ph: 727-461-3222
TF: 877-461-3222
Clearwaterbeach.hilton.com



All details and registration fees can be found on the conference website:
<http://winterfluorineconference2017.com>



FULL CONFERENCE REGISTRATION INCLUDES THE FOLLOWING:

- Access to all conference technical sessions, Sunday through Friday
- Sunday evening reception and poster session, with finger foods and drinks
- Wednesday poster session including a full buffet breakfast
- Thursday reception with drinks and an evening gala banquet – including wine
- Coffee breaks twice daily with drinks and snacks
- Hospitality suite each evening (9 p.m. until midnight) with snacks and drinks

An accompanying persons program is being organized. Check the conference website for details.

PRESENTATIONS

Presentations will include Plenary, Invited, Contributed, and Poster.

Contributed oral and poster presentations are encouraged.

ABSTRACTS SUBMISSION

Abstract submission opens on July 11 and closes Oct. 31, 2016.

**MORE
DETAILS** ►►



23RD WINTER FLUORINE CONFERENCE

JAN. 15-20, 2017

CLEARWATER
BEACH,
FLORIDA



HILTON CLEARWATER BEACH RESORT

Conference Housing

The official conference hotel is the Clearwater Beach Hilton Resort. Conference housing opens July 11, 2016 and closes December 9, 2016. Special discounted conference rates are available for students (\$119/night) and conference attendees (\$139/night) including free WiFi and parking.

Conference Exposition

There will be a conference exposition for industrial participants to display company materials and for representatives to interact with conference participants.

Sponsorship Information

There are several sponsorship opportunities for the 23rd Winter Fluorine Conference. Please contact Bob Syvret, Conference Chair, for all inquiries.

Accompanying Persons

A full program of activities is being organized for accompanying persons.

SPONSORSHIP LEVELS INCLUDE:

Copper \$500+ • Bronze \$1,000+ • Silver \$2,000+
Gold \$3,000+ • Platinum \$5,000+ • Diamond \$10,000+

See the website to view full sponsorship opportunities.

BENEFITS OF SPONSORSHIP:

Category Benefit Includes:	Copper	Bronze	Silver	Gold	Platinum	Diamond
Company Logo on Conference Website with link to Company's website	●	●	●	●	●	●
Acknowledgement of Company's sponsorship in Conference program booklet and website	●	●	●	●	●	●
Space adjacent to conference meeting room to display Company's literature	●	●	●	●	●	●
Co-sponsorship of a technical session with acknowledgement in the program booklet		●	●	●	●	●
Free tabletop at conference expo during Wednesday poster session and breakfast buffet for 1 participant			●	●	●	●
Sole sponsorship of 1 technical session with acknowledgement in the program booklet				●	●	●
50% registration discount for 1 company employee and half-page advertisement in program booklet				●	●	●
Complimentary registration for 1 company employee and full page advertisement in program booklet					●	●
Co-sponsorship of twice daily coffee breaks with acknowledgement in program booklet					●	●
Co-sponsorship of a social event with acknowledgement in program booklet and Company logo displayed on attendee badges						●

All details and registration fees can be found on the conference website:

<http://winterfluorineconference2017.com>



ACS
Chemistry for Life™

CONTACTS

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BOB SYVRET

The Division's total assets have decreased approximately 15.0% over the course of the 12 month period ending June 30, 2016. This decrease is entirely from the operating account and reflects the Division's support of the Moissan SURF, carry-over from a \$9,550 loss at the 22nd Winter Fluorine Conference, programming at the 2015 Fall ACS National Meeting held in Boston and 2015 Pacific Basin Conference, as well as other support noted below.

ASSETS (actual as of June 30, 2016)

	(\$) as of June 30, 2015	(\$) as of June 30, 2016
Wells Fargo Bank Account	\$29,232	\$10,064
Ameriprise Financial SPS Advantage Account	\$222,556	\$204,915
TOTAL ASSETS	\$251,788	214,979
Percent Change		-14.6%

2016 FINANCIAL HIGHLIGHTS

- > In 2016 the Division provided 2 Moissan Summer Undergraduate Research Fellowships in the amount of **\$5,000 each** to Professors John Welch at the University of Albany and GB Hammond at the University of Louisville.
- > The Division provided **\$6,000** in financial support to the Award Symposium for Steve Strauss at the Spring ACS National Meeting in San Diego, March 2016.
- > The Division provided **\$6,000** in financial support for Fluorine Division programming (18F symposium) at the Fall ACS National Meeting in Philadelphia, August 2016.

OUTLOOK FOR 2017:

- > The Division has budgeted to provide **2 Moissan SURF @ \$5,000 each** in 2017.
- > The Division will sponsor the 2017 ACS Award for Creative Work in Fluorine Chemistry at a cost of **\$9,000**.
- > The Division will provide up to **\$6,000** for the ACS Award for Creative Work in Fluorine Chemistry symposium in honor of Professor Togni to be held at the 2017 ACS Spring National Meeting in San Francisco.
- > The Division will provide financial support for the 23rd Winter Fluorine Conference as customary and as appropriate.

SUPPORT OF FLUORINE DIVISION SYMPOSIA

The Division's support is currently at \$3,500 + \$2,500 = \$6,000 for each FLUO Division Symposium held at ACS National Meetings and Pacificchem. Beginning with the ACS National Meeting in Philadelphia (August, 2016), the criteria for providing this support has changed as follows:

1. Any Fluorine Division sponsored symposium at an ACS National Meeting or Pacificchem is eligible to receive \$3,500. The \$3,500 must be used to pay for speaker registrations.
2. Only Fluorine Division members with current dues paid in full will be reimbursed. **Non-members of the ACS Division of Fluorine Chemistry will not be reimbursed.**
3. If the symposium organizers raise at least \$3,500, the Division will provide an additional \$2,500 of discretionary funding. ■

FOLLOW US ON TWITTER! AN EASY WAY TO DISCOVER THE LATEST NEWS RELATED TO THE ACS DIVISION OF FLUORINE CHEMISTRY IS TO FOLLOW OUR TWITTER ACCOUNT LOCATED HERE: [HTTPS://TWITTER.COM/FLUORINECHEM](https://twitter.com/fluorinechem).



2016 FALL NATIONAL COUNCIL MEETING REPORT

CHANGE IN LOCAL SECTION TERRITORY The Council approved a petition from the Permian Basin Local Section to annex the Texas counties of Pecos and Brewster, and the petition from the Upper Peninsula Local Section to annex unassigned and adjacent territory, and one Michigan county (Menominee) now currently assigned to the Northwest Wisconsin Local Section.

UNEMPLOYED MEMBERS' DUES WAIVER The Council approved a petition to amend the ACS Bylaws to extend the Unemployed Members' Dues Waiver, which will extend waivers for unemployed members' dues from the current two years to three years, subject to confirmation by the Board of Directors.

CHEMICAL PROFESSIONAL'S CODE OF CONDUCT The Council approved the *Chemical Professional's Code of Conduct*, subject to confirmation by the Board of Directors.

INTERNATIONAL CHEMICAL SCIENCES CHAPTERS The Council approved the establishment of ACS International Chemical Sciences Chapters in Greater Beijing, Southwestern China, and Iraq, subject to confirmation by the Board of Directors.

SPECIAL DISCUSSION The Council conducted a special discussion to gather input on proposed recommendations from the ACS Presidential Task Force on the U.S. Employment of Chemists. The task force has been examining and considering all known influences that can impact employment in the chemical sciences. This was an interesting discussion about what should be done in dealing with improving education at the

undergraduate level to make new chemists more employable as well as discussions about trends and changes in the chemical industry. Please send comments/input to Donna Nelson, President of the ACS, djnelson@ou.edu.

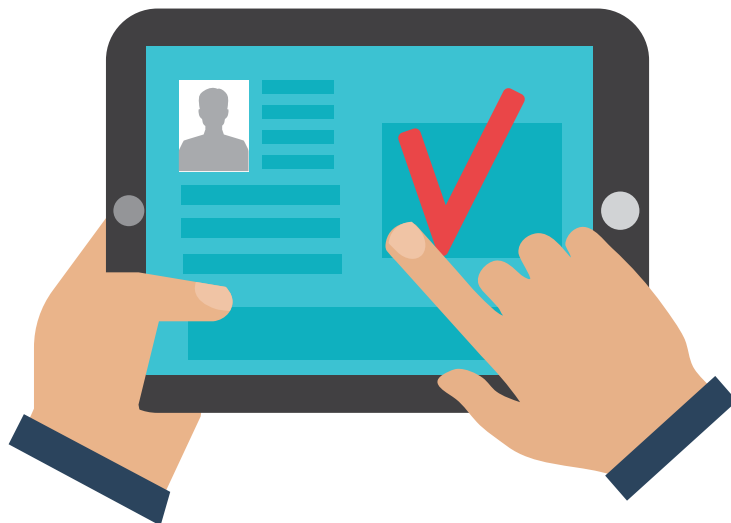
BUDGET AND FINANCE The Society's 2016 Probable 1 Budget calls for a Net from Operations of \$17.3 million. This is \$3.9 million higher than the Approved Budget and only \$723,000 higher than 2015. Total revenues are projected to be \$528.8 million, essentially on budget, and 3.3% higher than the prior year. Total expenses are projected at \$511.5 million, which is 0.6% favorable to budget, and 3.3% higher than 2015.

ACTIONS AND DISCUSSIONS OF THE BOARD OF DIRECTORS On the recommendation of the Society Committee on Budget and Finance, the Board voted to approve the advance member registration fee of \$445 for national meetings held in 2017 and also authorized several program funding requests.

The Board is seeking ways to engage ACS stakeholders to identify opportunities and issues for governance improvement that will enable ACS to advance its mission in a streamlined and simplified manner. The Board and the Council Policy Committee are creating a new task force that will look at the Society's future governance needs. Per the Board's discussion, the chair's report to Council provided additional details on a proposed Society-wide initiative to ensure an agile, efficient, and effective ACS. Additionally, the Board is considering proposed changes to certain Board committee duties and roles. ■

THE ELECTION BALLOT FOR OFFICES OF THE DIVISION OF FLUORINE CHEMISTRY WILL BE DISTRIBUTED BY EMAIL.

READ THE BIOS ON PAGES 8-10.



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

EXECUTIVE COMMITTEE

(Three-year term, 2017-2019)

OLGA V. BOLTALINA received her M.S. (1982), Ph.D. (1990) and D.Sci. (i.e., Doctor Nauk (aka Habilitation)) (1998) degrees in Physical Chemistry from Moscow State University (MSU), Russia. She worked at Moscow State University from 1982 to 2005, when she retired as Professor of Physical Chemistry; she is currently a Senior Research Scientist at Colorado State University, USA. Dr. Boltalina is an author of ca. 260 publications, several book chapters, and several patents and patent applications. She has been a recipient of many international and national awards, including the MSU Lomonosov and Shuvalov Prizes, an Alexander von Humboldt (AvH) F. Bessel Award, two AvH Research Awards, Japan Society for the Promotion of Science Fellowship, and Royal Society of Chemistry Research Awards. Her current research interests include synthesis and fundamental properties of fluorinated and perfluoroalkylated fullerenes, related carbon materials and small-molecule electron acceptors; and their applications in optoelectronics, energy conversion, energy storage, and biomedical research.

MICHAEL O. BRIMEYER earned his BS degree in Chemistry from Loras College in Dubuque, Iowa and his MS in Organic Chemistry from Marquette University in Milwaukee, Wisconsin. He began his career at Aldrich Chemical Company in 1979 as an R&D chemist working on product development. He has also worked at SCM Organic Chemicals as a process development chemist focusing on terpene chemistry and specialty organosilane chemistry. In 1986, he was transferred to PCR Inc. (Gainesville, FL) where he began as an R&D chemist specializing in silicon and fluorine chemistry and then went on to become Manager of Catalog Production for 10 years. Mike joined SynQuest Labs as a R&D/ Manufacturing Supervisor in 1992. He is currently Director of R&D at SynQuest Laboratories, a subsidiary of Central Glass, in Alachua, Florida. Mike has been a member of ACS for 39 years and member of the Fluorine Division.

SEBASTIAN RIEDEL began his chemical career in 1993 with practical training as a chemistry laboratory technician (Chemielaborant) at Siemens and Degussa in Hanau. He later finished technical school and the military service, and in 1998 he started his chemistry studies at the University of Siegen. After his pre-degree "Vordiplom" in Siegen, he moved to the University of Würzburg where he carried out his diploma thesis in the theoretical chemistry research group of Prof. Martin Kaupp. He continued as a PhD student (2003-2006) in the research group of Prof. Kaupp at the Institut für Anorganische Chemie in Würzburg. During his postdoctorate at the University of Helsinki, Sebastian Riedel was supported as a postdoctoral fellow by a Feodor Lynen Fellowship from the Alexander von Humboldt Foundation (2006-2007) where he worked with Prof. Markku Räsänen (matrix-isolation spectroscopy) and Prof. Pekka

Pyykkö (computational chemistry). He then moved to McMaster University Hamilton, Canada for a second postdoctoral experience in the research group of Prof. Gary J. Schrobilgen where he was trained in experimental fluorine chemistry. Upon his return to Germany he continued his chemical career as a Liebig Fellow of the Fonds der Chemischen Industrie at the Albert-Ludwigs Universität Freiburg in the research group of Prof. Ingo Krossing. In 2013 he finished his habilitation in inorganic chemistry. Since June 2013 he is full professor (W3) of inorganic chemistry as successor of Prof. Konrad Seppelt at the Institut für Chemie und Biochemie at the Freie Universität Berlin.

He received the faculty award of the University Würzburg in 2007 as well as the Kulturpreis Bayern. In 2011 he was awarded with the ADUC Habilitationspreis in inorganic chemistry. He also received the Publikationspreis Fluorchemie of the GDCh as well as the "International Young Talent Award in Fluorine Chemistry" from the DuPont Company in 2013. Recently, the teaching award of the FU Berlin, Department of Biology, Chemistry and Pharmacy was presented to him.

His main research interests are: the prediction and synthesis of novel main-group and transition metal fluorides and oxyfluorides as well as unusual f-block (actinoid and lanthanoid) compounds, the preparation and characterization of polyhalogen anions and the development of super acidic Lewis acids. Other research interests are: weakly coordinating cations, the prediction of novel inorganic species as well as bonding and electronic-structure analysis.

DR. PETR BEIER studied MSc at the University of Pardubice, Czech Republic and PhD (2001-2004) in organic chemistry with Prof. David O'Hagan (University of St. Andrews, UK). During 2005-2006 he was a postdoc researcher with Prof. Surya Prakash (University of Southern California and Loker Hydrocarbon Research Institute, Los Angeles). Since 2007 he is research team leader at the Institute of Organic Chemistry and Biochemistry, Academy of Sciences, Prague, Czech Republic). Dr. Beier is an active member of the Czech Chemical Society and the American Chemical Society. He has published 48 papers and delivered 18 invited lectures. His research interests are the development of synthetic methodology in organofluorine chemistry and its application in biochemistry, and organic chemistry of main group elements (P, S, Si, I).

JEAN-FRANÇOIS PAQUIN studied chemistry at Université Laval (Quebec City, Canada) where he graduated with a B.Sc. degree in 1999. In 2004, he received his Ph.D. degree under the supervision of Professor Mark Lautens at the University of Toronto (Canada). After a postdoctoral stay in Professor Erick M. Carreira's lab at the ETH Zürich (Switzerland), he was appointed assistant professor in 2005 at Université Laval (Quebec City, Canada) as a Tier 2 Canada Research Chair in Organic and Medicinal Chemistry (2005-2010). In 2010, he was promoted associate professor and his Canada Research Chair in Organic and Medicinal Chemistry renewed (2010-2015). He was

promoted to Full Professor in 2014. In 2010, he spent one month at the Institut National des Sciences Appliquées de Rouen (France) as an invited professor. He has been awarded, in 2015, a Humboldt Research Fellowship for a 6-month stay at the KIT in the group of Professor Anne S. Ulrich (Karlsruhe, Germany). In 2016, he received the Keith Fagnou Award from the Canadian Society of Chemistry. His current research interests include the development of novel methodologies for the synthesis of organofluorine compounds and their applications for the preparation of bioactive fluorinated compounds or fluorinated biological probes. Jean-François has co-authored more than fifty-four publications in addition to fifteen book chapters and he currently acts as Editor for the update of a Thieme Science of Synthesis volume on fluorine chemistry. He has presented more than sixty-eight invited lectures. Jean-François is a member of the Canadian Society for Chemistry (CSC) and the American Chemical Society (ACS). He is currently the past-chair of the Organic Division of the CSC. He also served over the past years as the chair, vice-chair, treasurer/program chair and secretary for the same division. He was a member-at-large on the Executive Committee of the Fluorine Chemistry Division of the ACS (2014-2016). He was also a member of the international advisory board for the 2016 Bremen Fluorine Days. Finally, he will co-host the International Symposium on Fluorine Chemistry in Quebec City in 2021.

THOMAS MATHEW is a Senior Scientist at the Loker Hydrocarbon Research Institute, University of Southern California. After receiving 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), a Visiting Professor in the Shanghai Institute of Organic Chemistry (Professor Jinbo Hu), Chinese Academy of Sciences (2012) and a Visiting Scientist in the Department of Organic Chemistry (Professor Santos Fustero), University of Valencia (2014). 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 170 papers and presentations together and delivered 42 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.

XUDONG CHEN is a Senior Research Chemist at Chemours (DuPont spin-off). He was born in China (1974). He developed a love for chemistry very early, when he experimented at home making hydrogen gas with nails and hydrochloric acid (his dad was also a chemist) in middle school before he had any chemistry classes (fortunately, there wasn't an explosion). He received a BS from Nanjing University, and a MS from Shanghai Institute of Organic Chemistry. He then moved to the USA in 1999 and got his PhD (2004) from Dartmouth College working with Prof. David Lemal on functionalization of fluorocarbons. At Dartmouth, he was a recipient of the Walter H. Stockmayer Chemistry Graduate Fellowship, sponsored by DuPont. After graduation, he joined Prof. Josef Michl's group at University of Colorado at Boulder as a research associate working on molecular electronics for two and a half years. In 2007, he accepted a position with DuPont and started at DuPont Central Research & Development as a Research Chemist. During his entire career at DuPont, his assignments all revolved around fluorinated materials, applications ranging from anti-reflective coating, to fluorinated lithium ion battery electrolyte, to ultralow wear coatings. When Fluoroproducts business was separated from DuPont into Chemours (2015), he followed his passion for fluorine chemistry and moved to Chemours. Currently, he is working on several fluoropolymer related projects, including high performance perfluorinated ionomers (NafionR), high performance perfluoropolyether lubricant (KrytoxR), and photo-imageable fluoropolymers. He is a co-inventor on more than 10 issued patents and patent applications, and a coauthor of 12 publications (including a book chapter on fluorinated cyclobutanes).

DIVISION COUNCILOR

(Three-year term, 2017-2019)

DR. DAVID A. DIXON was born in Houston Texas on Dec. 3, 1949. He received a B.S. in chemistry from Caltech in 1971 where he did undergraduate research in x-ray crystallography and ion cyclotron resonance spectroscopy. He received a PhD from Harvard in physical chemistry in 1976 where he worked on molecular orbital theory with Prof. William Lipscomb and crossed molecular beam chemistry with Prof. Dudley Herschbach. He has been the Robert Ramsay Chair the Department of Chemistry at The University of Alabama since April 2004. The overall goal of the work in his research group is to develop computational chemistry approaches on advanced computer systems and then apply them to address a range of important national problems with a focus on energy and the environment. Important research areas include fluorine chemistry and other main group chemistry, heterogeneous and homogeneous catalysis including acid gas chemistry and biomass conversion, geochemistry and mineral surfaces, biochemistry

of peptides for anion-based proteomics, heavy element chemistry for environmental cleanup and advanced nuclear fuel cycles, and chemical hydrogen storage materials. Prior to moving to Alabama, he was Associate Director for Theory, Modeling, & Simulation in the William R. Wiley Environmental Molecular Science Laboratory at the Pacific Northwest National Laboratory from 1995 to 2002 and a Battelle Fellow from 2002-2003. He was the leader of the Molecular Sciences Computing Facility in the EMSL as well as a computational chemistry and biology groups. His research at PNNL involved using computational methods to solve environmental problems facing the Department of Energy nuclear weapons production complex. He spent 12 years at DuPont's Central Research focusing on hydrofluorocarbons and other fluorinated compounds as chlorofluorocarbon replacements, fluoropolymers, catalysis, metal oxides, and main group chemistry in support of the Company's different businesses. He has received a number of awards including being a Junior Fellow at Harvard, Sloan Fellow, Dreyfus Teacher-Scholar, the 1989 Leo Hendrik Baekeland Award of the American Chemical Society, a 2000 Federal Laboratory Consortium Technology Transfer Award, the 2003 American Chemical Society Award for Creative Work in Fluorine Chemistry, a 2010 DOE Hydrogen Program R&D Award, the 2011 Burnum Award from The University of Alabama, the 2012 University of Alabama SEC Faculty Achievement Award, and the ACS Division of Fluorine Chemistry Distinguished Service Award in 2015. He is a Fellow of the American Association for the Advancement of Science, the American Physical Society, the American Chemical Society, and the European Academy of Sciences. He has been the Councilor for the ACS Division of Fluorine Chemistry since 2013 and is currently on the ACS Joint Board-Council Committee on Publications, representing the Division and its members. He is a strong advocate for the Division and its members to the ACS as well as for the importance of fluorine chemistry.

ALTERNATE DIVISION COUNCILOR

(Three-year term, 2017-2019)

JOSEPH S. THRASHER is currently Professor of Chemistry at Clemson University. After receiving his B.S. degree in Chemistry in 1978, he remained at Virginia Tech for his Ph.D. studies in Inorganic Chemistry under the direction of Alan F. Clifford. Upon completion of his Ph.D. in 1981, he took a postdoctoral position with Konrad Seppelt at the Freie Universität Berlin. During the 1983-84 academic year, he was a Visiting Assistant Professor at Clemson University where he both taught and carried out research with Darryl D. DesMarteau. He began his independent academic career at Alabama in 1984 and served as Department Chair for five years (2002-2007) after serving as Director of Graduate Studies for seven years. In July 2011, he retired from the University of Alabama, and immediately started his current position at Clemson. His research interests, funding, and publications are in three primary areas: (1) main-group fluorine chemistry, (2) industrial fluorine chemistry, and (3) fuel

cell technology. He has been very active in the American Chemical Society (ACS), especially in the Division of Fluorine Chemistry, where he has served in a number of offices, including Chair in 1994 as well as serving on the Executive Committee numerous times. He has also organized a number of symposia and conferences, including having been co-chair of two ACS Winter Fluorine Conferences (1993 and 1995) and was the organizing chair of the 19th International Symposium on Fluorine Chemistry (ISFC) held in Jackson Hole, WY in 2009. He was the recipient of the Division's Distinguished Service Award in 2013. In 2016, he became Regional Editor for the Americas of the Journal of Fluorine Chemistry, and he was selected as an ACS Fellow.

VICE-CHAIR/SECRETARY

(Three-year term, 2017-2019)

ANDREJ V. MATSNEV obtained both his B.Sc. (1998) and Specialist (2000) degrees in Chemistry at the National Technical University of Ukraine in Kiev. He received a Ph.D. in Organic Chemistry (2004) from the Institute of Organic Chemistry of the National Academy of Sciences of Ukraine in Kiev (IOCh NASU), where he worked under the supervision of Prof. Lev M. Yagupolskii. Thereafter, Dr. Matsnev continued working at IOCh as a research associate mainly on the synthesis of optically active fluoroorganic sulfoxides, sulfimines, and iodides; electrophilic and radical perfluoroalkylating reagents; and the synthesis of some agrochemicals. He was a recipient of several fellowships and grants: National Academy of Sciences of Ukraine's fellowship (2002-2003, Ukraine); President of Ukraine's fellowship (2005-2006, Ukraine); and Grant of the President of Ukraine to support scientific research of young scientists (2007, Ukraine). In 2008, Andrej Matsnev joined the research group of Prof. Norio Shibata at the Nagoya Institute of Technology (Nagoya, Japan) as a VBL postdoctoral fellow. There, the main areas of his research were the enantioselective synthesis of fluorinated compounds and the development of new electrophilic trifluoromethylating reagents. In 2010, he joined the research group of Prof. Joseph S. Thrasher at the University of Alabama and moved with the group to Clemson University in 2012. At Alabama and Clemson, he worked on the synthesis of polymer electrolytes for PEM fuel cell technology, the development of new approaches to SF₅-containing materials, and the improved syntheses of practically important fluoroorganic substances. In addition to research training in the Ukraine, Japan, and USA, he spent shorter periods of time as a visiting scientist in both Poland and Germany, e.g., in the research laboratories of Professor Józef Drabowicz (2003, Centre of Molecular and Macromolecular Studies, Lodz, Poland) and Professor Günter Haufe (2012, University of Münster, Münster, Germany). Currently, Dr. Matsnev is a Research Chemist at Halocarbon Products Corporation and an Adjunct Assistant Professor at Clemson University. He is also holding the position of interim Vice-Chair/Secretary of the ACS Division of Fluorine Chemistry. ■

THIS GIFTED SCIENTIST studied Chemistry at the Technical University in Munich and completed his PhD in 1965 with Prof. Dr. F. Weygand. After a postdoctoral stay in the lab of Professor R. N. Hazeldine in Manchester, England (1967-1968) he returned to Munich and began his habilitation with Professor Weygand, subsequent to which he was promoted to Associate Professor Extraordinary. Excited by the political changes in Germany in 1989, he accepted a call for a full professorship from University Leipzig in 1993.

His interest in fluorine chemistry was sparked during his PhD period with Friedrich Weygand and through his intensive, dedicated, and outstanding work he became an internationally renowned fluorine chemist.

The primary focus of his work was forging a connection between organic fluorine chemistry and the chemistry of heterocycles, amino acids, peptides and carbohydrates. The results of his comprehensive work are documented in more than 400 publications, and more than 170 of these were written during his time in Leipzig.

He significantly contributed to the excellent reputation that this university enjoys in organic chemistry, e.g. by his extraordinary publication activity and his participation in the DFG-Innovationskolleg: "Chemical signal and biological response". Furthermore, he acquired funding from the DFG, the EU, and also for many other third-party projects. He was a member of the Max-Bergmann-Kreis and of the Editorial Boards of several scientific journals. His activities also included several national and international collaborations, among others with research groups in Russia, Ukraine, Poland, Hungary, England, Italy, France, Switzerland, and the USA.

He was also a highly accomplished and inspiring educator, teaching in numerous areas of organic chemistry. In addition to research-based instruction and his diverse lectures, as well as the many internships and doctoral theses he supervised, the training of laboratory technicians and the supervision of foreign trainees always counted equally to his scientific and teaching achievements. During his tenure at Leipzig University, two assistant professors, more than 25 PhD students, and many diploma students completed their work.

Klaus Burger officially retired in 2003. However, he did not stop his scientific activities until 2008. For all his contributions, he received the appreciation and respect of the fluorine chemistry community. Most importantly, he was more than a respected colleague and teacher, especially for us.

BEATE KOKSCH: Dear Klaus, I first got to know you when I visited your lab at Technical University Munich as a PhD



PROFESSOR KLAUS BURGER,
our mentor, dear friend and colleague passed away on May 26, 2016, just a few weeks before he would have celebrated his 78th birthday. He had been widowed by the passing of his beloved wife, Catja, and is survived by their son Julian. Julian's love, the support that his family gave, and his passion for chemistry helped him to fight the devastating illness he suffered from during the final years of his life.

student of Professor Hans-Dieter Jakubke (Leipzig) in 1992. I was funded by a joint grant between Professor Jakubke and yourself, one of the first DFG grants that supported East-German research groups collaborating with research groups from West-Germany, and I learned from your PhD students how to synthesize fluorinated amino acids. From day one I felt inspired by the scientific atmosphere in your laboratory and especially by your hospitality. We quickly joined forces, realizing the synergy that could be achieved with your numerous ideas regarding the synthesis of new fluorinated building blocks and my ideas of their use in peptide modification. Therefore, I returned to your laboratory soon after my initial stay and remained for almost one year. I will always remember you as the energetic, kind, and always motivational professor who became a treasured colleague and friend. Without your encouragement I would, most likely, not be a university professor today and your guidance helped me to become a member of the fluorine chemistry community, for which I am very grateful. Thank you Klaus for giving me the opportunity to become part of your scientific family and for all our philosophical exchanges.

—PROF. DR. BEATE KOKSCH, Institute of Chemistry and Biochemistry, Freie Universität Berlin, Takustr. 3, D-14195 Berlin
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NORBERT SEWALD: I joined Klaus' group during my undergraduate studies and my first scientific publication was the result of a research internship in 1986. Even at that time as a student I was always impressed by the scientific atmosphere in the group, by the scientific quality, by Klaus' scientific enthusiasm and by the enormous self-motivation of the group members. Having joined the group (aka "Burger family") for my diploma thesis and PhD, I dived into organofluorine chemistry, met interesting national and international scientists, and learnt how to successfully write publications and grant proposals. After my postdoc with Jack Baldwin I was excited to move with Klaus and the group from Munich to Leipzig in 1993/1994, where I was able to start my own scientific career. There, the research attitude of Klaus and his group mixed with the possibilities of a new environment to create a vibrant hands-on research atmosphere. Although my research interests have moved on since then, I will always remember it.

Klaus, you will remain a role model for me when it comes to motivating young people and encouraging them to find their own scientific footpaths. Thank you for having been mentor and friend.

—PROF. DR. NORBERT SEWALD, Department of Chemistry, Bielefeld University, PO Box 10 01 31, D-33501 Bielefeld
norbert.sewald@uni-bielefeld.de ■

2017 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 2017. 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 2017 are currently \$5,000 for a ten-week program. In addition, a limited stipend of up to \$500 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. In addition, the faculty member has to be a member or affiliate of the Fluorine Division. To be considered for an award in 2017, the Division Chair must receive an application by January 31, 2017.

The electronic submission should be in the form of a PDF document and sent to: haiges@usc.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 2017 will be announced in the Spring 2017 Newsletter of the Division and the award recipients will be notified prior to this by e-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, 2017. Brief reports (two to three pages) to the Division Chair are expected from the faculty member and student by October 1, 2017. The faculty report should include a summary of technical accomplishments, skills realized by the student, perceived interest by the student in graduate work, and the perceived success or failure of this program in encouraging interest in fluorine chemistry by the student. The student report should include a summary of technical accomplishments and an evaluation of the influence of the award program in his/her decision to consider graduate work in chemistry or fluorine chemistry. ■

AMERICAN CHEMICAL SOCIETY
DIVISION OF FLUORINE CHEMISTRY

- NEW MEMBERSHIP APPLICATION
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THE RENEWAL DUES FOR 2017 ARE \$10.00 FOR ACS MEMBERS AND \$17.00 FOR NON-ACS MEMBERS
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David Vicic
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Department of Chemistry
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USA

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ACS NEWS

THE BIENNIAL
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THE AMERICAN
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2016 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.

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