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AMERICAN CHEMICAL SOCIETY
Call for Papers for Philadelphia



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From the Chair's Desk

Pamela J. Rice

From a local to global scale, agriculture touches the lives of each one of us in providing the food, fiber, and products we rely on daily. AGRO brings together a worldwide community of scientists and stakeholders to advance knowledge and promote innovative solutions for the protection of agricultural productivity, public health, and the environment. "*Chemistry For and From Agriculture*" may be AGRO's motto, but we are comprised of and enriched by expertise across scientific disciplines. We invite you to join us in some of the exciting opportunities planned for 2016.

National Meetings. Thank you to AGRO members, collaborators, volunteers, and sponsors for your time and expertise that resulted in a very successful meeting in Boston with 33 symposia representing 380 abstracts. Included was a special collaborative symposium with The Society of Environmental Toxicology and Chemistry (SETAC) and ACS-ENVR to identify global research needs to sustain environmental quality. We also honored the achievements of seven of our most eminent colleagues in multiple award symposia.

Building on this success, Jay Gan, Program Chair, is leading over 70 symposium organizers in the planning and development of symposia for the August 2016 meeting in Philadelphia, Pennsylvania. The Call for Papers begins on page 19. Visit our website (agrodiv.org) to see the most up-to-date list of symposia. **Please note: Abstracts must be submitted by March 21, 2016.** Nice job Jay! We look forward to the programming in Philly.

In 2017, our current Vice Chair, Scott Jackson, will lead the programming for Washington, D.C. It is never too early to begin developing program ideas for future meetings. Contact Scott or any of the Programming Champions (p. 50) if you would like assistance in developing a symposium. Also watch for announcements on our program-brainstorming social to be held during the Philly meeting.

Student Travel and New Investigator Awards. Are you an undergraduate, grad student, post-doc, or early career scientist or a mentor to someone fitting this description? If so, I would like to highlight the special programs AGRO offers to financially support and recognize new investigators and students at the national meetings. Application forms and deadlines for the New Investigator Award and Education Award for Student Travel can be found under the Special Programs link on the website and on pages 16 and 17.

AGRO's Strategic Plan. Our last strategic planning session was held in 2011 at which time we established and have since met our goals of increased international presence, developed a monthly Enewsletter, developed innovative web-based electronic programming, increased our pool of symposium organizers, and established strategic alliances and collaborations with other ACS Divisions and non-ACS organizations. We look forward to discussion and setting new goals at our next strategic planning workshop planned for 2016.

Do you have ideas that you would like to include in our next strategic plan? Send an email to Ashli Brown Johnson (abrown@mscl.msstate.edu) and Julie Eble (julie.eble@criticalpathservices.com), our team-leads for the Strategic Planning Workshop, or any of the AGRO officers.

Global Programming. Part of the strategic Plan was to increase global programming. I would like to thank AGRO members and collaborators for their success in co-organizing recent and upcoming global efforts.

- Hosting the 13th IUPAC International Congress of Pesticide Chemistry at the 248th ACS National Meeting (2014)
- Partnering with the Foundation for the Study of Traditional Sciences and Arts (ECYART) in Peru and with the ACS Publications Division and the Journal of Agricultural and Food Chemistry (JAFC) by establishing a lectureship series (2013-present)
- Co-organizing three symposia at Pacificchem 2015
- Co-sponsoring the IUPAC Crop Protection Chemistry, Ecological Risk Assessment Workshop in Nairobi, Kenya (2016)
- Co-sponsoring the 11th International Symposium on Adjuvants for Agrochemicals (2016)

Your efforts have been acknowledged by the awarding of the ChemLuminary Global Engagement Award (2014) and are greatly appreciated by the communities you have served.

Website. Check out what AGRO has to offer. We encourage you to visit our website at www.agrodiv.org for the most up-to-date information on AGRO's activities and list of sponsors. View Lunch and Learn Webinar Series, access archives of our Enewsletter and *PICOGRAM*, learn about membership, award opportunities, and more.

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1971	Louis Lykken Tom H. (Bucky) Harris Herman Beckman (Posthumous)	1979	Rodney D. Moss	1998	Hank Cutler Paul Giesler
1972	Wendell F. (Bud) Phillips Don G. Crosby Elvins Y. Spencer	1980	G. Wayne Ivie John B. Siddall (Posthumous)	2000	Barry Cross
1973	Mr. Roger C. Blinn Philip C. Kearney Julius J. Menn	1981	Robert M. Hollingsworth Gino J. Marco	2001	Robert Hoagland
1974	Morton Beroza James P. Minyard, Jr. Joe C. Street	1983	John Harvey, Jr.	2003	Judd O. Nelson
1975	Hank F. Enos Maurice B. Green Charles H. Van Middlelem	1985	Henry Dishburger Richard C. Honeycutt	2005	Rodney Bennett
1976	Marguerite L. Leng Jack R. Plimmer Gerald G. Still	1986	Gunter (Jack) Zweig	2006	Terry D. Spittler
1977	Gustave K. (Bob) Kohn	1987	Willi Garner	2007	John M. Clark Ann T. Lemley R. Donald Wauchope
1978	S. Kris Bandal Paul Hedin	1988	Jan Chambers James Seiber	2008	Allan S. Felsot
		1990	Joseph Fenyes	2011	Laura L. McConnell
		1991	Nancy N. Ragsdale	2012	Jeffrey J. Jenkins John J. Johnston
		1992	Don Baker Joel Coats Guy Paulson	2013	Stephen S. Duke Cathleen J. Hapeman Kenneth D. Racke Teresa A. Wehner
		1993	Larry Ballantine	2014	Aldos C. Barefoot Jeanette M. Van Emon
		1994	James Heitz Ralph Mumma Willis Wheeler		
		1996	John Bourke		

ACS FELLOWS FROM THE AGRO DIVISION

2009	Glenn Fuller	2012	Jeanette M. Van Emon	2015	Rodney Bennett
2010	James N. Seiber	2014	Kevin Hicks		John Johnston
2011	John W. Finley N. Bushan Mandava		Laura L. McConnell Kenneth D. Racke		



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AWARDS COMMITTEE REPORT

Yoshihisa Ozoe of Shimane University in Japan is the recipient of the 2016 ACS International Award for Research in Agrochemicals. He receives this award for his research and exceptional accomplishments in the field of insect physiology, biochemistry, toxicology, pharmacology of ligand-gated ion channels and G-protein coupled receptors (GPCRs), and QSAR of insecticides. A symposium in his honor will be organized by Joel Coats and Aaron Gross and will be held on Monday at the 252nd ACS National Meeting in Philadelphia. Nominations for the 2018 ACS International Award for Research are currently being evaluated by the Awards Committee. The nomination criteria can be found on page 7.

The winners of the 2016 AGRO Award for Innovation in Chemistry of Agriculture sponsored by BASF, the USDA-Agricultural Research Service Sterling Hendricks Lectureship, and the 2016 Kenneth A. Spencer Award sponsored by the ACS Kansas City Section will be announced in early spring. Nominations for the 2017 awards are now being accepted (see pp. 9, 11, and 13, respectively).

The Awards Committee is accepting new award nominations for the AGRO Division Fellow Award (see below). AGRO nominations for the ACS Fellow must be submitted through the Division Chair. The deadlines each year are March 31 for the AGRO Fellow Award and April 1 for the ACS Fellow Award.

The AGRO and AGFD Divisions with the Journal of Agricultural and Food Chemistry (JAFC) will sponsor two lectureships for

outstanding papers published in *JAFC* during 2016. This year's winners for papers published in 2015 will be announced in early spring, both of whom will present lectures at the ACS National Meeting in Philadelphia. The call for nominations of papers published in 2016 will be solicited from AGRO and AGFD members and from the public through the JAFC website beginning in late Fall 2016, p. 15.

The 2015 winner of the New Investigator Award was **Bartek Troczka**, Rothamsted Research. He is currently exploring molecular genomic tools to enhance understanding of differential bee toxicology to various classes of insecticides. This award, sponsored by Dow AgroScience, is presented to scientists who have obtained a doctoral degree within the past five years and are actively conducting academic, industrial, consulting, or regulatory studies of interest to AGRO. Applications for the 2016 New Investigator Award are currently underway, p. 16.

AGRO has also established an endowment fund in collaboration with Bayer CropScience to promote an understanding of the role of chemistry in agriculture for students. Applications for the Student Travel Award are now being accepted, p. 17.

Please consider nominating a deserving colleague for the AGRO Division and external awards.

Respectfully submitted,
James N. Seiber, Chair
Awards Committee



CALL FOR NOMINATIONS AGRO DIVISION FELLOW AWARD

The AGRO Division has established the ***Division Fellow Award*** to recognize its members whose dedicated and enthusiastic service has kept the Division moving forward.

Criteria shall be –

Continued and substantial contributions of time, talents, and service to the Division of Agrochemicals, ACS, and to agrochemical science over a period of at least six years.

Nominations include a letter, noting the contributions to the Division, and a current *curriculum vitae*. Deadline for submitting nominations is March 31 of each year. Contact the Awards Committee for further information.

Submit nominations electronically to:

James N. Seiber
AGRO Awards Committee Chair
530-752-1141
jnseiber@ucdavis.edu

PAST AWARDEES OF THE BURDICK & JACKSON INTERNATIONAL AWARD

1969	John E. Casida, University of California-Berkeley	1980	Minuro Nakajima, Kyoto University, Kyoto, Japan
1970	Richard D. O'Brien, Cornell University, Ithaca, New York	1981	Philip C. Kearney, USDA-ARS, Beltsville, Maryland
1971	Robert L. Metcalf, University of Illinois, Champagne-Urban	1982	Jack R. Plimmer, USDA-ARS, Beltsville, Maryland
1972	Ralph L. Wain, Wye College, University of London, England	1983	Karl Heinz Buechel, Bayer AG, Leverkusen, Germany
1973	Hubert Martin, British Crop Protection Council, London, England	1984	Jacques Jean Martel, Roussel Uclaf, Paris, France
1974	T. Roy Fukuto, University of California-Riverside	1985	Junshi Miyamoto, Sumitomo Chemical Co., Japan
1975	Michael Elliot, Rothamsted Experimental Station, Harpenden, England	1986	James Tumlinson, USDA-ARS, Gainesville, Florida
1976	Morton Beroza, USDA-ARS (retired), Beltsville, Maryland	1987	Fumio Matsumura, Michigan State University, East Lansing
1977	Francis A. Gunther, University of California-Riverside	1988	Ernest Hodgson, North Carolina State University
1978	Julius J. Menn, Stauffer Chemical Co., Mountain View, California	1989	Toshio Narahashi, Northwestern University, Evanston, Illinois
1979	Milton S. Schechter, USDA-ARS (retired), Beltsville, Maryland	1990	David Schooley, University of Nevada-Reno
		1991	Stuart Frear, USDA-ARS, Fargo, North Dakota

PAST AWARDEES OF THE ACS INTERNATIONAL AWARD FOR RESEARCH IN AGROCHEMICALS CO-SPONSORED BY BASF & DUPONT CROP PROTECTION

1992	Bruce Hammock, University of California-Davis	2003	Bob Hollingworth, Michigan State University, East Lansing Hideo Ohkawa, Kobe University, Japan
1993	Morifuso Eto, Kyushu University, Fukoka, Japan	2004	Stephen Duke, USDA-ARS, Oxford, Mississippi John Marshall Clark, University of Massachusetts-Amherst
1994	Toshio Fujita, Kyoto University, Japan	2005	Robert Krieger, University of California-Riverside Janice E. Chambers, Mississippi State University, Starkville
1995	Mohyee Eldefrawi, University of Maryland-Baltimore Koji Nakanishi, Columbia University, New York, New York	2006	Joel Coats, Iowa State University, Ames Isamu Yamaguchi, Agricultural Chemicals Inspection Station, Tokyo, Japan
1996	Günther Voss, Ciba, Basel, Switzerland Klaus Naumann, Bayer AG, Leverkusen, Germany	2007	Gerald T. Brooks, University of Sussex (retired), Brighton, United Kingdom Fredrick J. Perlak, Monsanto, St. Louis, Missouri
1997	Fritz Führ, Institute of Chemistry and Dynamic, Jülich, Germany Izuru Yamamoto, University of Tokyo, Japan	2008	David M. Soderlund, Cornell University, Ithaca, New York
1998	George Levitt, DuPont, Wilmington, Delaware Leslie Crombie, University of Nottingham, England	2009	R. Donald Wauchope, USDA-ARS (retired), Tifton, Georgia
1999	Don Baker, Zeneca, Richmond, California James Seiber, University of Nevada-Reno	2010	Shinzo Kagabu, Gifu University, Gifu, Japan
2000	George P. Georghiou, University of California-Riverside Herbert B. Scher, Zeneca, Richmond, California	2011	George P. Lahm, DuPont Crop Science, Newark, Delaware
2001	Donald Crosby, University of California-Davis Ralph Mumma, Pennsylvania State University, University Park		
2002	Keith Solomon, University of Guelph, Canada Marinus Los, American Cyanamid, Princeton, New Jersey		

PAST AWARDEES OF THE ACS INTERNATIONAL AWARD FOR RESEARCH IN AGROCHEMICALS SPONSORED BY DUPONT CROP PROTECTION

2012	Thomas C. Sparks, Dow AgroSciences, Indianapolis, Indiana	2014	Ralf Nauen, Bayer CropScience, Monheim, Germany
2013	René Feyereisen, National Institute of Agronomic Research (INRA), France	2015	Keith D. Wing, formerly of Rohm and Haas and DuPont Crop Protection, Wilmington, Delaware
		2016	Yoshihisa Ozoe, Shimane University, Japan.



CALL FOR NOMINATIONS
ACS INTERNATIONAL AWARD FOR
RESEARCH IN AGROCHEMICALS
Sponsored by DuPont Crop Protection

2018 Fall ACS National Meeting in Boston, Massachusetts

The ACS International Award for Research in Agrochemicals is given to a scientist who has made outstanding contributions to the field of agrochemicals at the international level. Their vision and sustained contributions will have opened new horizons for other investigators in their field and beyond.

- The **nomination letter** will include the following statement: "I hereby nominate [insert first, middle, last name] as a candidate for the ACS International Award for Research in Agrochemicals." It will also include the **nominee's birthplace, date of birth, citizenship, business address**, and a **description** (200 – 1000 words) of the reasons why the nominee should receive this award, stressing the individual's major accomplishments.
- Include a **curriculum vitae** of the candidate that includes: places and nature of employment, professional affiliations, honors and awards received, and a list of publications and patents.
- Nominations often include **one or two letters of support**, although this is optional.

Electronic nominations (as a single pdf file) containing all the listed items should be emailed to:

James N. Seiber
AGRO Awards Committee Chair
530-752-1141
jnseiber@ucdavis.edu

Deadline: Nominations should be received by the committee chair by **December 31** of each year. Balloting will be conducted beginning in January, and results will be announced the following spring.

The **nominating official(s)** should be prepared to assist in organizing a symposium at the 2018 Fall National ACS Meeting in honor of the awardee.

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CALL FOR NOMINATIONS
ACS AWARD FOR INNOVATION IN
CHEMISTRY OF AGRICULTURE
Sponsored by BASF Corporation

2017 Fall ACS National Meeting in Washington, DC

The ACS Award for Innovation in Chemistry of Agriculture is given to an active researcher working in North America for a chemical innovation that significantly enhances agricultural or veterinary pest management and productivity. The awardee will be asked to give an award address at the National ACS meeting.

The Nomination email will include the following:

1. A **formal letter of nomination** that includes:
 - Name, business address, phone, and email address of the nominator
 - Name, business address, phone, and email address of the nominee
 - A nomination statement (200 – 1000 words) giving reasons why the nominee should receive this award, stressing the chemical innovation and how it has enhanced agricultural or veterinary pest management and productivity
2. The nominee's **current curriculum vitae**
3. One or two **letters of support**
4. Reference or e-mail link to 1 or 2 published **manuscripts that report on the work** which supports the award nomination

Electronic nominations (as a single pdf file) containing all the listed items should be emailed to:

James N. Seiber
AGRO Awards Committee Chair
530-752-1141
jnseiber@ucdavis.edu

Deadline: Nominations should be received by the committee chair by **December 31** of each year. Balloting will be conducted beginning in January, and results will be announced the following spring.

The Awardee will be given the opportunity to present his/her work in a special lecture at 254th National ACS Meeting in August 2017 in Washington, DC.

**SPECIAL THANKS TO OUR SPONSOR FOR
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**PAST AWARDEES OF THE
ACS AWARD FOR INNOVATION IN
CHEMISTRY OF AGRICULTURE**

- | | |
|------|---|
| 2012 | Steven J. Lehotay, USDA-Agricultural Research Service, Wyndmoor, Pennsylvania |
| 2013 | Jeanette M. Van Emon, US Environmental Protection Agency, Las Vegas, Nevada |
| 2014 | Scott R. Yates, USDA-Agricultural Research Service, Riverside, California |
| 2015 | Thomas C. Sparks, Dow AgroSciences, Indianapolis, Indiana |



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CALL FOR NOMINATIONS

2017 STERLING B. HENDRICKS MEMORIAL LECTURESHIP

Sponsored by USDA-Agricultural Research Service

Co-Sponsored by AGFD & AGRO Divisions

The USDA-Agricultural Research Service (ARS) is seeking nominations for the 2016 Sterling B. Hendricks Memorial Lectureship Award. This Lectureship was established in 1981 by ARS to honor the memory of Sterling B. Hendricks and to recognize scientists who have made outstanding contributions to the chemical science of agriculture. Hendricks contributed to many diverse scientific disciplines, including soil science, mineralogy, agronomy, plant physiology, geology, and chemistry. He is most frequently remembered for discovering phytochrome, the light-activated molecule that regulates many plant processes. The lecture should address a scientific topic, trend, or policy issue related to agriculture. The deadline is **November 30, 2016**.

The AGRO Division and the Agricultural & Food Chemistry Division (AGFD) co-sponsor the lecture which will be held in a joint session of these divisions. The lectureship is presented at an AGFD symposium in even-numbered years and in an AGRO symposium in odd-numbered years. The award includes an honorarium of \$2000, a bronze medallion, and expenses to attend the meeting.

Nominees will be outstanding senior scientists in industry, university, consulting, or government positions. *Current ARS employees are not eligible*. The Award will be presented at the 254th American Chemical Society National Meeting held in 2016 in Philadelphia, Pennsylvania, prior to the lecture. Giving a presentation is a requirement of the honor.

The **Nomination Package** includes:

- A letter explaining the nominee's contributions to chemistry and agriculture,
- A current *curriculum vitae* (hard copy only)

Nomination letters may be sent electronically to:

Kim Kaplan, Lecture Coordinator
kim.kaplan@ars.usda.gov

Hard copy nominations and *curriculum vitae* are to be submitted via courier to:

Kim Kaplan, Lecture Coordinator
ARS Information Office
Room 1-2253, Mail Stop #5128
5601 Sunnyside Ave
Beltsville, MD 20705
301-504-1637 - phone

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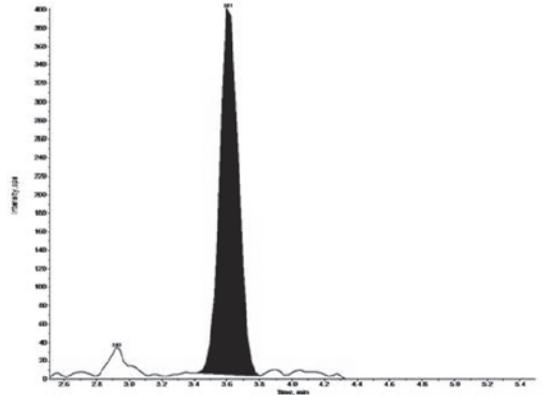
- | | | | |
|------|--|------|---|
| 1981 | Norman E. Borlaug, Nobel Laureate, International Maize and Wheat Improvement Center, Mexico City, Mexico | 1997 | Ernest Hodgson, North Carolina State University, Raleigh |
| 1982 | Warren L. Butler, University of California-San Diego | 1998 | Morton Beroza, USDA-ARS (retired), Beltsville, Maryland |
| 1983 | Melvin Calvin, Nobel Laureate, University of California-Berkeley | 1999 | Bruce D. Hammock, University of California-Davis |
| 1984 | Frederick Ausubel, Harvard Medical School, Boston, Massachusetts | 2000 | William S. Bowers, University of Arizona, Tucson |
| 1985 | Alan Putnam, Michigan State University, East Lansing | 2001 | Malcolm Thompson, USDA-ARS (retired), Beltsville, Maryland |
| 1986 | Ralph Hardy, Cornell University and BioTechnica International, Ithaca, New York | 2002 | Irvin E. Liener, University of Minnesota, St. Paul |
| 1987 | Mary-Dell Chilton, Ciba-Geigy Corporation, Research Triangle Park, North Carolina | 2003 | Kriton Kleanthis Hatzios, Virginia Polytechnic Institute and State University, Blacksburg |
| 1988 | Bruce N. Ames, University of California, Berkeley | 2004 | Robert L. Buchanan, Food and Drug Administration, College Park, Maryland |
| 1989 | Sanford A. Miller, University of Texas Health Science Center at San Antonio, Texas | 2005 | Donald L. Sparks, University of Delaware, Newark |
| 1990 | Roy L. Whistle, Purdue University, West Lafayette, Indiana | 2006 | Stanley B. Prusiner, Nobel Laureate, University of California, San Francisco |
| 1991 | Peter S. Eagleson, Massachusetts Institute of Technology, Cambridge | 2007 | Bruce E. Dale, Michigan State University, East Lansing |
| 1992 | John E. Casida, University of California-Berkeley | 2008 | Fergus M. Clydesdale, University of Massachusetts-Amherst |
| 1993 | Philip H. Abelson, Deputy Editor, <i>Science</i> , and Scientific Advisor to AAAS, Washington, DC | 2009 | Charles J. Arntzen, Arizona State University-Tempe |
| 1994 | Wendell L. Roelofs, Cornell University, Ithaca, New York | 2010 | Chris Somerville, Director of the Energy Biosciences Institute, Berkeley, California |
| 1995 | Winslow R. Briggs, Carnegie Institution of Washington, Stanford, California | 2011 | Deborah P. Delmer, University of California-Davis |
| 1996 | Hugh D. Sisler, University of Maryland, College Park | 2012 | Eric Block, University at Albany, State University of New York |
| | | 2013 | Keith Solomon, University of Guelph, Canada |
| | | 2014 | Robert T. Fraley, Monsanto, Company, St. Louis, Missouri |
| | | 2015 | James Tumlinson, Penn State, University Park |



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Contact: Stuart Z. Cohen, Ph.D., CGWP
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CALL FOR NOMINATIONS

2017 KENNETH A. SPENCER AWARD

Sponsored by ACS KANSAS CITY SECTION

The Kansas City Section of the American Chemical Society is soliciting nominations for the 2016 Kenneth A. Spencer Award. The award recognizes meritorious contributions to the field of agricultural and food chemistry. The Kansas City Section presents this award in the hope that it will give added stimulus in research, education, and industry to further progress in agricultural and food chemistry. The award has been awarded annually in Kansas City since 1955 and carries an honorarium of \$6000. At this meeting the recipient will deliver an address, preferably upon the subject of the work for which they have been recognized. Subsequently, that address will be published, if possible, in an appropriate journal. The Kansas City Section will reimburse the recipient and spouse for round-trip travel expenses to Kansas City for the presentation.

To be eligible for the award, a candidate must be a citizen of the United States and must have done the work for which he or she qualifies as a candidate within the United States. The candidate need not be a member of the American Chemical Society. A candidate's work, whether it be done in education, industry or research, should have meritoriously contributed to the advancement of agricultural and food chemistry.

The nomination shall include a biographical sketch of the nominee containing minimum vital statistics, parents' names, education and professional experience; a list of published papers and patents; a specific identifying statement of the work on which the nomination is based; and an evaluation and appraisal of the nominee's accomplishments with special emphasis on the work to be recognized by the award.

The nomination form can be found here:
http://cas.umkc.edu/chemistry/kcacs/spencer/AwardLogistics/spencer_nomination.pdf

Send nomination by November 15, 2016, to:

Kenneth A. Spencer Award
Kansas City Section of ACS
c/o Eckhard Hellmuth
Department of Chemistry
University of Missouri- Kansas City
5100 Rockhill Road
Kansas City, MO 64110
816-235-2290 - phone

PAST KENNETH A. SPENCER AWARD WINNERS

1955	Ralph M. Hixon, Iowa State University	1986	John M. Brenner, Iowa State University
1956	Conrad A. Elvehjem, University of Wisconsin	1987	Hector F. DeLuca, University of Wisconsin-Madison
1957	William C. Rose, University of Wisconsin	1988	Boyd L. O'Dell, University of Missouri-Columbia
1958	E.V. McCollum, Johns Hopkins University	1989	Robert H. Burris, University of Wisconsin
1959	Karl Folkers, Merck, Sharpe & Dohme Res. Labs.	1990	John E. Kinsella, University of California-Davis
1960	C.H. Bailey, University of Minnesota	1991	George Levitt, DuPont Experimental Station
1961	H.L. Haller, USDA-Agricultural Research Service	1992	Clarence A. Ryan, Jr., Washington State University
1962	A.K. Balls, USDA-Agricultural Research Service	1993	Bruce Hammock, University of California-Davis
1963	C.C. King, Rockefeller Foundation	1994	William S. Bowers, University of Arizona
1964	Daniel Swern, Temple University	1995	Robert T. Fraley, Ceregen, A Unit of Monsanto Co.
1965	Aaron M. Altschul, USDA-Agricultural Research Service	1996	James N. BeMiller, Purdue University
1966	Robert L. Metcalf University of California-Riverside	1997	William M. Doane, USDA-Agricultural Research Service
1967	Melville L. Wolfrom, The Ohio State University	1998	Mendel Friedman USDA-Agricultural Research Service
1968	Herbert E. Carter, University of Illinois	1999	James A. Sikorski, Monsanto Co.
1969	Edwin T. Mertz, Purdue University	2000	Wendell L. Roelofs, Cornell University
1970	Lyle D. Goodhue, Phillips Petroleum Company	2001	James Tumlinson USDA-Agricultural Research Service
1971	William J. Darby, Vanderbilt University	2002	Daniel W. Armstrong, Iowa State University
1972	Emil M. Mrak, University of California-Davis	2003	Eric Block, University at Albany, State Univ. New York
1973	Esmond E. Snell, University of California-Berkeley	2004	Steven D. Aust, Utah State University
1974	Roy L. Whistler, Purdue University	2005	Don R. Baker, Berkeley Discovery Inc.
1975	Thomas H. Jukes, University of California-Berkeley	2006	Russell Molyneux, USDA-Agricultural Research Service
1976	E. Irvine Liener, University of Minnesota	2007	David A. Schooley, University of Nevada-Reno
1977	N. Edward Tolbert, Michigan State University	2008	Ron G. Buttery, USDA-Agricultural Research Service
1978	John E. Casida, University of California-Berkley	2009	George P. Lahm, DuPont Crop Protection
1979	Charles W. Gehrke, University of Missouri-Columbia	2010	Clive A. Henrick, Trece, Inc.
1980	George K. Davis, University of Florida-Gainesville	2011	Michael W. Pariza, University of Wisconsin-Madison
1981	John Speziale, Monsanto Agricultural Products Co.	2012	James N. Seiber, University of California-Davis
1982	Howard Bachrach, USDA-Agricultural Research Service	2013	Attila Pavlath, USDA-Agricultural Research Service, ret.
1983	Peter Albersheim, University of Colorado	2014	Ronald Horst, USDA-Agricultural Research Service, ret.
1984	Richard H. Hageman, University of Illinois	2015	Thomas Selby, DuPont Crop Protection
1985	Bruce N. Ames, University of California-Berkeley		



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JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY

CALL FOR NOMINATIONS 2017 RESEARCH ARTICLE OF THE YEAR AWARD LECTURESHIP AWARDS

Sponsored by The Journal of Agricultural and Food Chemistry

Co-sponsored by AGFD & AGRO Divisions

The *Journal of Agricultural and Food Chemistry* (JAFC) and the ACS Divisions of Agricultural and Food Chemistry (AGFD) and Agrochemicals (AGRO) are seeking nominations for the Research Article of the Year Award Lectureship.

Two papers will be awarded, one from each category, for an outstanding article published in 2016 (either in an issue of *JAFC* or *ASAP*) that demonstrates creativity and impact on agricultural and food chemistry as a whole.

Each winner will receive:

- An award plaque
- \$1000 USD
- Travel expenses up to \$1250 USD to attend the Fall 2017 ACS National Meeting in Washington, DC

Nominations should include:

- Name, affiliation, and e-mail address of the nominator
- Nominee's article title and DOI (hyperlinked to the article if possible)
- Name, affiliation, and e-mail address of the corresponding author (no self-nominations)
- A statement of why the article is outstanding (< 500 words)
- Suggestion of a category AGFD or AGRO
- The words "JAFC nomination" in the title of the email

Nominees will be divided into two categories:

- Agrochemicals (pesticides, biofuels and biobased products, and related)
- Agricultural and food chemistry (food, health, and related).

This will be subject to the discretion of the Editor-in-Chief.

The winners will be announced in early 2017, and the award will be presented at the Fall 2017 ACS National Meeting held in August in Washington, DC.

Send your nominations to
jafcaward@acs.org

Deadline for nominations
December 31, 2016



CALL FOR APPLICANTS

AGRO DIVISION

2016 NEW INVESTIGATOR AWARD

Sponsored by Dow AgroSciences

2016 Fall ACS National Meeting in Philadelphia, Pennsylvania

The AGRO Division seeks nominations for the New Investigator Award (NIA) to be awarded at the ACS meeting in Philadelphia in August 2016. The purpose of the New Investigator Award is to recognize scientists who have obtained a doctoral degree and are actively conducting academic, industrial, consulting, or regulatory studies.

The Division is interested in work on all aspects of agrochemicals which are broadly defined to mean pesticides of all kinds (e.g., chemical pesticides, biopesticides, pheromones, chemical attractants, fumigants, plant incorporated protectants, disinfectants) as well as biotechnology-derived crops (e.g., Bt crops, Roundup Ready crops, etc.). The categorical areas of

study related to agrochemicals are very broad and encompass environmental chemistry, toxicology, exposure assessment, risk characterization, risk management, and science policy. Studies of veterinary pharmaceuticals and antibiotics are included in the Division's mission. The Division encourages submissions related to public health protection as well as crop, livestock, aquaculture, and wildlife protection.

AGRO is also interested in the environmental chemistry and effects resulting from agricultural production (e.g., soil processes, water/air quality) and in chemical products made from agricultural commodities and byproducts. This includes biofuels and bioproducts and the issues surrounding their production and use.

The Process:

- To be eligible for the award, the scientist must have obtained his or her doctorate no more than five years before the time of the Fall ACS National Meeting. Thus, for 2016, applications will be considered from **scientists who have obtained their doctorates no earlier than the year 2011**.
- A panel consisting of at least three AGRO members will choose up to three finalists based on their extended abstracts, 1-page *curricula vitae*, and letter(s) of recommendation.
- **Each finalist will receive up to \$1275 for travel and meeting expenses.**
- Each finalist will deliver an oral presentation (which will be judged by the panel) in one of the AGRO Program symposia. The winner, who will receive a plaque, will be chosen after all finalists have presented their papers.

To Apply for the New Investigator Award:

1. Submit a **300-word abstract** to a symposium in the AGRO Division using the ACS Meeting Abstracts Programming at <http://maps.acs.org/>
2. Submit an **extended abstract (maximum 2 pages) describing the candidate's research/studies** to the NIA Coordinator. Include the impact (or potential impact) of the results as it pertains to issues of concern to AGRO.
3. Submit a 1-page **curriculum vitae**.
4. Submit at least **one letter of recommendation** from a current supervisory scientist (e.g., post-doctoral mentor, a business manager, departmental chair).
5. Deliver an oral presentation in an appropriate symposium at the 252nd ACS National Meeting in Philadelphia.

Deadline:

The extended abstract, *curriculum vitae*, and letter(s) must be received by the New Investigator Award (NIA) Coordinator no later than **March 21, 2016**.

For more information, please contact:

Steven J. Lehotay, NIA Coordinator
USDA-Agricultural Research Service
steven.lehotay@ars.usda.gov

The AGRO Division is grateful for the sustained support of the AGRO New Investigator Award



Dow AgroSciences



CALL FOR APPLICANTS

AGRO DIVISION 2016 EDUCATION AWARD

Sponsored by Bayer CropScience



UNDERGRADUATE & GRADUATE STUDENT RESEARCH

Travel Support for Student Posters and Senior Grad Student Oral Presentations

2016 Fall ACS National Meeting in Philadelphia, Pennsylvania

The AGRO Division has established an endowment fund in collaboration with Bayer CropScience that will be used to promote an understanding of the role of chemistry in agriculture. To address this goal, student awards will be made through the Division's Education Committee.

Applications are sought for the 2016 Travel Awards. Selected undergraduate and graduate students will be awarded up to \$600 each to help defray costs of attendance to give a poster or an oral presentation at the 252nd ACS Fall National Meeting, which will be held in August 2016 in Philadelphia, Pennsylvania. Students should submit their abstracts in the symposium of their choice. First, Second, and Third place winners in the poster competition will receive an additional cash award.

The subject of the presentation should pertain to the chemistry of the AGRO Division. Topics should relate to pest management chemistry including synthesis, metabolism, regulatory, risk assessment, biotechnology, resistance, mode of action, residues, delivery, fate/behavior/transport, and agronomic practices. The AGRO Division is also interested in chemical products made from agricultural commodities and byproducts, including biofuels, and the issues surrounding their production.

NEW IN 2016: Graduate students who have previously attended scientific meetings AND are in or nearing their last year of graduate school are encouraged to do an oral presentation instead of a poster. Please contact the organizers to determine if you are eligible **before** submitting an abstract. AGRO members will be available to provide constructive critiques.

For more information, please contact the co-organizers:

Marja Koivunen
California Department of Food and Agriculture
Sacramento, CA 95814
tel: 530-574-1837
email: mekoivunen@gmail.com

Diana Aga
Chemistry Department, NSC 611
University of Buffalo
Buffalo, NY 14260
tel: 716-645-4220
email: dianaaga@buffalo.edu

To apply, students should submit the following no later than March 21, 2016:

1. A **300-word abstract** formatted according to the directions given at the ACS Meeting Abstracts Programming System (<http://maps.acs.org>). Be sure to include name of the applicant, applicant's address, and applicant's e-mail address.

After completing step #1 above, forward the ACS email indicating the abstract number and stating that abstract was successfully submitted to:

posters@agrodiv.org

Only abstracts submitted to symposia organized by the AGRO Division will be eligible for the travel award.

2. A two page extended abstract giving more detail of the research/presentation. For a sample extended abstract, visit <http://www.agrodiv.org/graduate-students/>
3. A short letter of nomination from the faculty advisor that verifies current enrollment of the student.

SUBMIT items 2 and 3 and a copy of the ACS email as a **SINGLE pdf file to our posters email address** below with the abstract number in the email subject line.

posters@agrodiv.org

NOTE: Files sent directly to the coordinators will not be accepted.

*Abstracts will be reviewed by the Education Committee.
Applicants will be notified of their selection status in May 2016.*

*Special thanks to our sponsor for
their generous contribution!*



Bayer CropScience

Notes from the Program Chair

Jay Gan

Plans are underway for an exciting and robust program for the 252nd National ACS Meeting and Exposition in Philadelphia, Pennsylvania, August 21-25, 2016. We are building upon the success of last year's meeting in Boston and also the momentum of the IUPAC congress in San Francisco the year before. For Philly we have 29 proposed symposia and two award symposia, to be organized by 87 scientists representing academia, government, and private sectors. I thank all of our dedicated and enthusiastic symposia organizers for their expertise, time, and effort in leading this scientific exchange.

The AGRO Division tradition of hosting a large number of oral symposia continues at the Philly meeting. Many will have associated poster sessions. This is the result of the coordinated effort between the AGRO Division Chair, past Chairs, AGRO Executive Committee members, and other AGRO enthusiasts. The Programming Committee (p. 50) continues to increase its membership and welcomes those interested in serving as a Program Champion for any of AGRO's topic areas. I thank all who have contributed ideas at the Blues and Brews, through emails, and follow through with Call for Papers.

In Philly, we will also recognize the achievements of our colleagues in agrochemical research through the ACS International Award for Research in Agrochemicals and the Kenneth A. Spencer Award for Outstanding Achievement in Agricultural and Food Chemistry. Professor **Yoshihisa Ozo**e of Shimane University in Japan is the winner of the **International Award for Research in Agrochemicals**. Prof. Joel Coats and Dr. Aaron Gross are the organizers of the award symposium *Physiological Functions and Pharmacology of Ion Channels and G-Protein Coupled Receptors* to honor Professor Ozo's distinguished career. This award symposium will also accept poster presentations. Dr. Eckhard W. Hellmuth, Professor Emeritus of Chemistry at University of

Missouri - Kansas City, will lead the organization of the Kenneth A. Spencer Award lecture and reception, which is cosponsored by AGFD Division; the winner will be announced in the near future.

Diana Aga and Marja Koivunen are organizing the **AGRO Education Awards** and Steven Lehotay the **AGRO New Investigator Award (NIA)** Competition. The three NIA finalists will be preselected from the applications. The plan is for both the NIA finalists and Student Travel Award winners (poster and oral presentations) to present in the symposia of their choice; all will receive travel grants (see pp. 16-17).

This year AGRO will also sponsor two Early Career Symposia. The goal is to allow new scientists to highlight their early achievements and to interact and form new collaborations that we hope will last for many years. Drs. Andrew Nuss and Aaron Gross are organizing a symposium entitled, *Advances and Challenges of Controlling Arthropod Pests*, and Drs. Yunjie Ding, Fang Ja, Mingming Ma, and Shanique Grant are organizing a symposium entitled, *Fate and Metabolism of Agrochemicals*.

As you can see, AGRO will be hosting a large number of oral symposia this year, so the General Session, *Protection of Agricultural Productivity, Public Health, and the Environment*, will be posters only.

Once again we welcome and rely on the expertise of Peney Patton (ppatton@agrodiv.org), Program Secretariat for AGRO and ENVR. Thank you Peney for all of your help in making our programs in 2014, 2015, and 2016 a success!

I hope to see you in Philly and look forward to an exciting opportunity of science and interacting with colleagues and friends.

***** PLEASE NOTE *****

Beginning in 2015, ACS initiated a new abstract programming system, MAPS. All abstracts (300 words or less, figures = 70 words) must be submitted on-line

<http://maps.acs.org>
January 25, 2016 - March 21, 2016

**THE ABSTRACT CLOSING DATE IS FINAL
NO EXTENSIONS**

We **strongly encourage** early submittal of abstracts to allow for delays often encountered when working with new software.



List of Symposia by Standing Topic Area
252nd ACS National Meeting & Exposition
August 21-25, 2016, Philadelphia, Pennsylvania USA
Chemistry of the People, by the People and for the People

Each year, in addition to our traditional award/tribute symposia, the AGRO Division programs specific symposia in most, but not all, of our fifteen standing programming areas. Presentations for those standing program areas not included in listed symposia will be grouped in AGROs general poster session.

Awards Symposia

- Physiological Functions and Pharmacology of Ion Channels and G-Protein Coupled Receptors: Symposium in honor of Dr. Yoshihisa Ozoe, ACS International Award for Research in Agrochemicals
- Kenneth A. Spencer Award for Outstanding Achievement in Agricultural and Food Chemistry
- Synthesis and Chemistry of Agrochemicals. Symposium in Memory of Dr. Thomas Bretschneider

General Session

- Protection of Agricultural Productivity, Public Health and the Environment (posters only)

Standing Programming

Advances in Agrochemical Residue, Analytical and Metabolism Chemistry, and Metabolomics

- Advances in Agricultural Biotechnology: Interpretation and Correlation of ELISA and LC-MS/MS for Protein Quantitation
- Advances in Agrochemical Metabolism and Metabolomics
- Advances in Residues Analysis of Bee Relevant Matrices: Analytical Methods and Sampling Techniques
- Emerging Mass Spectrometry Trends in Support of Agricultural Research and Development
- Extraction Efficiency: Bridging between Metabolism Studies and Residue Analytical Methods
- Innovative Approaches in Designing Agrochemical Metabolism Studies
- Novel Analytical Methods for Analysis of Emerging Contaminants of Concern: Advances and Challenges

Agrochemical Toxicology and Mode of Action

- Advances and Challenges of Controlling Arthropod Pests: Early Career Scientist Symposium
- Innovations in Agrochemical Mode of Action Studies and the Impact of Global Human Health Requirements

Biorationale Pesticides, Natural Products, Pheromones, and Chemical Signaling in Agriculture

- Natural Products as Biorationale Pesticides in Agriculture

Ecosystem and Human Health/Exposure and Risk Assessment

- Agrochemicals and Pollinators: Current Science and Risk Assessment Approaches
- Computational Chemistry and Toxicology in Chemical Discovery and Assessment (QSARs)
- Environmental Statistics: Trend Analysis of Data in Exposure and Risk Assessment
- Good Laboratory Practices for the Agrochemical Professional
- Innovations in Human Health Exposure and Risk Assessment

Environmental Fate, Transport, and Modeling of Agriculturally-related Chemicals

- Environmental Fate, Transport, and Modeling of Agriculturally-related Chemicals
- Environmental Study Design: Current and Emerging Guidelines
- Fate and Metabolism of Agrochemicals: Early Career Scientist Symposium
- Increasing the Value of Water Monitoring Data for Pesticide Fate and Effects Evaluations
- Neonicotinoid Insecticides: Use, Fate, and Effects
- Subsurface Fate of Pesticides
- Terrestrial Field Dissipation Studies: Current Regulatory Guidance, Study Design, and Utility of Data in Exposure and Risk Characterization

Human and Animal Health Protection: Vector Control, Veterinary Pharmaceutical, Antimicrobial and Worker Protection Products

- Antimicrobial Resistance and Agriculture

Regulatory Harmonization and MRLs

- Cannabis and Agrochemicals: Analytical, Environmental, and Regulatory Challenges
- Who Should Regulate Pesticides in Our Food?

Technological Advances and Applications in Agricultural Science (e.g., Nanotechnology, Genetically-modified Organisms, and Biocontrol Agents)

- Glyphosate: Current Status and Future Prospects

Urban Agriculture: Turf, Ornamentals, Household Products, and Water-Re-Use

Environmental Risk Assessment of Down-the-Drain Chemicals



Call for Papers
252nd ACS National Meeting & Exposition
August 21-25, 2016
Philadelphia, Pennsylvania USA

ACS International Award for Research in Agrochemicals

***Physiological Functions and Pharmacology of Ion Channels
and G-Protein Coupled Receptors***

Symposium Honoring Dr. Yoshihisa Ozoe

Financially Sponsored by DuPont Crop Protection

Purpose of Symposium

This symposium will recognize the research and accomplishments of Dr. Yoshihisa Ozoe, Shimane University in Japan, in the field of insect physiology, biochemistry, toxicology, pharmacology of ligand-gated ion channels and G-protein coupled receptors (GPCRs), and QSAR of insecticides. Dr. Ozoe will be awarded the 2016 ACS International Award for Research in Agrochemicals.

Suggested Topics for Contributed Posters

- Insecticide/acaricide mechanism of action
- Molecular pharmacology and physiology of insect neuronal receptors
- QSAR of insecticides
- Novel insecticides, other pesticides

For further information, contact the organizers

Joel Coats, Iowa State University, 515-294-4776, jcoats@iastate.edu
Aaron Gross, University of Florida, 352-294-5166, adgross@epi.ufl.edu

Abstracts (300 words or less) must be submitted to
<http://maps.acs.org>
January 25, 2016 - March 21, 2016



Call for Papers
252nd ACS National Meeting & Exposition
August 21-25, 2016
Philadelphia, Pennsylvania USA

Advances and Challenges of Controlling Arthropod Pests
Early Career Scientist Symposium

Purpose of Symposium

Arthropods have significant impacts on agriculture, as well as on human and animal health. Control strategies of arthropod pests frequently rely on chemical pesticides but are evolving to combat challenges such as the development of pesticide resistance and toxicity to non-target organisms. To provide continued management of arthropod pests and improved safety, advances are needed to discover novel chemistries, novel modes of action, and biotechnological enhancements. Furthermore, expanding our understanding of pesticide resistance and modes of action of existing arthropod pest control chemistries will fuel the development of the next generation of pesticides to provide safer, more stable protection of our food production systems and health.

The aim of this symposium is to provide a platform for postdoctoral and early career scientists to present their latest research results with regard to arthropod pests that have an impact on agriculture, animal, and human health. Additionally, this symposium will serve as a platform to foster future collaborations.

Suggested Topics

- Pesticide discovery and development
- Pesticide mechanism of action studies
- Pesticide resistance characterization, monitoring, and management
- Biotechnological advances in arthropod control strategies

For further information, contact the organizers

Andrew Nuss, University of Nevada, Reno, 706-224-8107, anuss@cabnr.unr.edu
Aaron Gross, University of Florida, 352-294-5166, adgross@epi.ufl.edu

Abstracts (300 words or less) must be submitted to
<http://maps.acs.org>
January 25, 2016 - March 21, 2016



Call for Papers
252nd ACS National Meeting & Exposition
August 21-25, 2016
Philadelphia, Pennsylvania USA

Advances in Agricultural Biotechnology: Interpretation and Correlation of ELISA and LC-MS/MS for Protein Quantitation

Purpose of Symposium

The uniplex ELISA is the predominant analytical tool used to measure recombinant proteins in genetically engineered plants for risk assessment and product development. However, ELISA is not suitable for all analyses, especially when proteins are denatured during extraction (e.g., membrane proteins or certain soil matrices). Also, advances in agricultural biotechnology have created a need for analytical tools capable of selectively detecting and quantifying multiple proteins co-expressed for herbicide tolerances and/or insect control. In both cases, multiplex LC-MS/MS methods have been demonstrated as viable alternatives to ELISA. These methods utilize liquid chromatography coupled to tandem mass spectrometry and measure peptides as surrogates of target proteins.

This symposium will discuss the advantages and disadvantages as well as the possible uses for both technologies through a trait product development cycle from discovery to registration. The symposium would be of interest to scientists practicing protein quantitation in academic or industrial applications relating to agriculture and regulatory offices evaluating applications for product registrations. Scientists from other ACS divisions may be interested, including AGFD, ANYL, BIOL, and BIOT.

Suggested Topics

- Regulatory perspectives in protein detection for agricultural biotechnology crop risk assessment
- Advancements in biotechnology protein detection (e.g., multiplexing, throughput, accuracy)
- Application of immuno-based and mass spectral-based technologies in the seeds trait development process
- Correlation and interpretation of protein quantitation technologies (e.g., ELISA, LC-MS/MS)
- Method validation and optimization practices for protein detection technologies

For further information, contact the organizers

Ryan Hill, Dow AgroSciences, 317-337-4864, rhill1@dow.com

Norma Houston, DuPont Pioneer, 302-695-8778, norma.houston@cgr.dupont.com

Julie Eble, Critical Path Services, 610-558-3001 X100, julie.eble@criticalpathservices.com

Lisa Buchholz, Dow AgroSciences, 317-337-4393, LMBuchholz@dow.com

Abstracts (300 words or less) must be submitted to

<http://maps.acs.org>

January 25, 2016 - March 21, 2016



Call for Papers
252nd ACS National Meeting & Exposition
August 21-25, 2016
Philadelphia, Pennsylvania USA

Advances in Agrochemical Metabolism and Metabolomics

Purpose of Symposium

Metabolism research has advanced in recent years to incorporate the understanding of how compounds affect metabolic processes. Metabolomics, the study of endogenous and exogenous metabolites within biofluids, cells, and tissues, evaluates the impact of chemicals on biochemical pathways with the intention of identifying biomarkers of exposure and/or effect. Thus, the metabolomic impact of agrochemicals on humans and other non-target organisms is of interest for biomonitoring and medicinal purposes. Additionally, these studies identify perturbed biochemical pathways due to agrochemical exposure.

This symposium highlights the recent advancements in agrochemical metabolism and metabolomics research, which include impacts on human and ecological health, biomonitoring, target organism effects, and biochemical perturbations.

Suggested Topics

- Small molecule biomarkers of agrochemical exposure
- Metabolomic impacts of agrochemicals on humans and other non-target organisms
- Mode of action and metabolomics
- Agrochemical metabolism
- Analytical advancements and challenges in small molecule detection (mass spectrometry, nuclear magnetic resonance, separations, metabolite identification, etc.)
- Risk assessment

For further information, contact the organizers

Kimberly Ralston-Hooper, Dow Agrosciences, 317-337-5256, kjralstonhooper@dow.com

Jeff Gilbert, Dow Agrosciences, 317-337-3022, jrgilbert@dow.com

Corey Griffith, University of California, Riverside, 951-827-3080, corey.griffith@email.ucr.edu

Qing Li, University of Hawaii at Manoa, 808-956-2011, qingl@hawaii.edu

James Seiber, University of California, Davis, 503-752-1141, jnseiber@ucdavis.edu

Abstracts (300 words or less) must be submitted to

<http://maps.acs.org>

January 25, 2016 - March 21, 2016



Call for Papers
252nd ACS National Meeting & Exposition
August 21-25, 2016
Philadelphia, Pennsylvania USA

***Advances in Residues Analysis of Bee Relevant Matrices:
Analytical Methods and Sampling Techniques***

Purpose of Symposium

This symposium will share practical and innovative approaches for the collection and analysis of bee relevant matrices. Due to expanding regulation on crop protection chemicals, increased testing of bee relevant matrices is being done by the agricultural industry and contract laboratories.

The sampling requirements for honey bee and native pollinator safety assessment studies are rapidly changing. Consequent development of analytical methods to support these studies is challenged as study designs require more sensitive and selective methods on very small samples. This symposium will focus on recent advances in analytical method development, GLP validation requirements, and field sampling techniques to meet the challenges of new global guideline requirements.

This symposium will generate communication about development of analytical methods for bee relevant matrices such as nectar and pollen, bee safety guideline requirements, and sampling technique innovation to provide cost-effective, high quality residue methods with expanded analytical scope. Representatives from industry, academia, and government are invited to share their perspective on analytical method development and sampling approaches. The symposium will encourage discussion and debate about the different approaches to provide analytical data for global honey bee and native pollinator safety assessments. Other ACS divisions that may benefit from this symposium are AGFD, ANYL, and ENVR.

For further information, contact the organizers

Manasi Saha, BASF, 919-547-2232, manasi.saha@basf.com

Thomas Gould, Bayer CropScience, 919-549-2981, tom.gould@bayer.com

Yunjie Ding, Dow AgroSciences, 317-337-4479, yding1@dow.com

Suggested Topics

- Challenging analytical methods (problem-solving in unusual matrices or unique molecular properties of analytes), successes and failures
- Developing multiplexed methods: methods applicable to many analytes and many matrices
- Developing analytical methods that will meet global requirements for bee regulatory studies
- Development or implementation of automation for routine analysis
- Sampling of flowers for nectar and/or pollen
- Sampling of honey bees and bumble bees for nectar and pollen
- Sampling of bee colonies and solitary bee nests
- Development of homogenization techniques for extremely small samples

Abstracts (300 words or less) must be submitted to
<http://maps.acs.org>

January 25, 2016 - March 21, 2016



Call for Papers
252nd ACS National Meeting & Exposition
August 21-25, 2016
Philadelphia, Pennsylvania USA

***Agrochemicals and Pollinators:
Current Science and Risk Assessment Approaches***

Purpose of Symposium

Pollinators are important components of both natural and agricultural ecosystems. Managed pollinators, particularly honey bees, and natural pollinators play a critical role in the production of a number of economically important crops. There has been an intense focus on pesticide risk assessment of honeybees and other bees (non *Apis* bees) in recent years, and while protection goals for pollinators in OECD countries are fairly well aligned (maintenance of pollination services, hive product production, and biodiversity), the methodology required for risk assessment is still in development. There is still work to be done in understanding and quantifying sublethal effects. In addition, new research on more general natural chemistry of plant-pollinator interactions needs to be considered.

The purpose of this symposium is to provide a forum for academic researchers, industry scientists, and regulators to present and discuss recent advances in pollinator risk assessment relative to agricultural chemicals, including field, semi-field, and laboratory methodology, exposure modeling, including population modeling, and sublethal effects. Advances in understanding the biochemistry of bees and plant pollinator interactions within which effects take place are of particular interest. All of these areas have at their base, the chemistry of bees.

Suggested Topics

- Metabolism and metabolomics of toxic materials, natural or xenobiotic, by honeybees or other bees
- Chemistry of plant-pollinator interactions
- Signaling pathways for behavior and social interactions of the colony
- Caste and task group development chemistry
- Indirect effects: Development of laboratory test methods to assess chemical communication and sublethal effects on different bee life stages
- Resistance or tolerance of bees to toxic materials
- Study design: Field, semi-field and Laboratory test methodology for acute and chronic exposure and effects
- Analytical challenges relative to determining residues in different hive matrices
- Risk assessment and modeling approaches for social and solitary bees
- Challenges of extrapolating relationships of toxicity for laboratory to field and from short to long term
- Impacts of pollinator risk assessments for product registration
- Harmonization efforts by EPA, PMRA, and CDPR for evaluating risk to pollinators

For further information, contact the organizers

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Antimicrobial Resistance and Agriculture

Purpose of Symposium

Antimicrobial resistance (AMR) poses a severe health threat on the human population, especially in hospitals. In the USA in 2014, the Presidential Council of Advisors on Science and Technology (PCAST) issued a key report on the importance of AMR and research to address the problem. Although agricultural sources of AMR do not constitute the main thrust of research, agriculture contributes to the presence of AMR microorganisms in food and in the environment and must be considered and assessed as part of the solution.

The purpose of this symposium is to provide a forum for researchers in academia, government, industry, and other organizations to share current information and ideas to reduce the human and environmental health consequences of AMR originating from agricultural sources. Regulators must conduct risk assessments, set policies, and make decisions based on up-to-date scientific knowledge. This includes consideration of laboratory and field testing, exposure modeling, biochemical mechanisms, mitigation strategies and alternatives, fundamental knowledge about microbial ecology, and other challenges to be presented in the symposium.

Suggested Topics

- Overview of AMR with respect to agricultural sources and impacts.
- AMR in the environment – sources, monitoring, and impact on the ecosystem and human health
- AMR in different animal production systems, including aquaculture
- Surveillance and extent of AMR microbes and biomarkers in foods and other samples
- International and regional aspects of AMR in agriculture
- AMR mitigation strategies and techniques in agriculture
- Measuring AMR – testing approaches, strategies, and method performance
- Novel approaches to measure AMR
- Alternative antimicrobial approaches, including new types of antibiotics
- Fundamental studies of microbial ecology and mechanism of AMR
- Exposure modeling and risk assessment
- Regulatory aspects of AMR in agriculture
- Monitoring of antibiotics and correlation with AMR
- Challenges in AMR research

For further information, contact the organizer

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***Cannabis and Agrochemicals:
Analytical, Environmental, and Regulatory Challenges***

Purpose of Symposium

Cannabis production and sale are legal in a limited number of states, but they are still prohibited under federal law. Thus, no labels for agrochemical use on cannabis have been approved under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). Other federal and state laws introduce additional challenges regarding the production of cannabis/hemp related products, including water consumption, waste discharges and disposal of other cannabis wastes.

The goal of this session is two-fold: (1) to initiate a discussion on the analytical, environmental, and regulatory challenges associated with agrochemicals in the legal cannabis industry; and (2) to address challenges associated with management operations in the face of conflicting state and federal laws.

The presenters in this session will share their thoughts and research on the following (and/or related) topics as they relate to the legal production of cannabis.

Suggested Topics

- Dissipation rates of pesticides on crops grown indoors, compared to outdoors
- Analytical methods for determining pesticides in cannabis
- Analytical considerations to assess cannabis product quality and consumer label compliance
- Metals and other contaminant/adulterant determinations in cannabis
- Policy related issues for pesticide use on cannabis
- Policy issues for use of cannabis production byproducts in food and animal feed
- State perspectives- medical and recreational use of cannabis and pesticides
- Potential federal policy needs in a future nationally legalized cannabis world
- Studies on hemp and pesticide use
- Hemp – research to support the re-establishment of industrial hemp production
- Water consumption in cannabis production and Clean Water Act
- Waste and waste water discharges
- State and federal regulations that govern the use of agrochemicals, water use and waste discharge

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***Computational Chemistry and Toxicology in
Chemical Discovery and Assessment (QSARs)***

Purpose of Symposium

Testing chemicals for performance/efficacy, toxicologic effects, and environmental fate is expensive and time consuming. Decisions to conduct such studies often involve cost/benefit evaluations leading to limitations on the data that can be developed. In addition, environmental professionals in recent years have been trying to reduce the numbers of test animals used in toxicologic studies, for ethical and cost reasons. Elucidating the toxicologic mechanism by which a chemical acts with experimental data can be difficult, expensive, and ultimately, equivocal. Finally, scientists often have to predict risks based on little or no data on chemicals and their metabolites in the context of the environmental statutes Toxic Substances Control Act (TSCA) and Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).

The goal of computational chemistry and toxicology is to meet these needs, at least partially. This general approach can involve the use of quantum chemistry to model toxicologic initiating events at the molecular level. Quantitative structure activity relationships (QSARs) can be used to predict environmental fate and adverse effects of a chemical. Thus the purpose of this symposium is to present papers on accomplishments and challenges in this field. A related goal is to consider where this prediction methodology will be in five to ten years.

Suggested Topics

- The use of quantum chemistry to investigate the initiating event in adverse outcome pathways
- Chemical parameter estimation from other measured data
- QSAR: Chemical parameter estimation based on molecular fragments
- QSAR: toxicologic predictions based on molecular fragments and other descriptive parameters
- Predictions of product performance/efficacy using quantum chemistry and/or other QSAR tools
- The role of QSAR in screening thousands of chemicals under the Canadian Environmental Protection Act and the soon-to-be reformed U.S. Toxic Substances Control Act
- The use of QSAR to improve pesticide risk assessment with metabolism and toxicologic data submitted under FIFRA - Including assessment of the toxicologic activity of pesticide metabolites

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***Emerging Mass Spectrometry Trends in Support of
Agricultural Research and Development***

Purpose of Symposium

Advances in instrumentation have been one of the most important drivers in the way we conduct agricultural research and development. Newer mass spectrometer instrumentation has provided better analyte selectivity, better sensitivity, and higher sample throughput. Instruments incorporating accurate mass and high mass resolution capabilities will significantly impact how studies are analyzed.

As instrument costs have dropped, these instruments are now more available to laboratories in industry, CRO's, and academia. Laboratories are incorporating accurate mass technology into all aspects of agricultural R&D ranging from product discovery and development, product registration, and monitoring of food and environmental samples.

Suggested Topics

- Use of high resolution accurate mass (HRAM) / accurate mass instrumentation for metabolite identification
- Use of role of HRAM / accurate mass instrumentation for quantitative analyses
- HRAM based quantitative/qualitative workflows for pesticide discovery
- Advanced software applications for metabolite identification and structural elucidation
- Agricultural research and development applications of ion mobility mass spectrometry
- Isotopic labeling of agrochemicals used to assist in metabolite identification
- Use of accurate mass instrumentation multi-residue analyses
- Mass spectrometry for confirmation of the identity of animal drug residues
- Targeted and non-targeted pesticide analyses

For further information, contact the organizers

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***Environmental Fate, Transport, and
Modeling of Agriculturally-related Chemicals***

Purpose of Symposium

Effective risk assessment of pesticides requires detailed measurement and/or prediction of their environmental fate in target use regions. Spatial and temporal variability, fate process coupling and interaction, conservation practice implementation, and changing climates may also present substantial variability to pesticide fate assessments.

This symposium will improve knowledge and identify research needs on this critically important topic. Results are expected to improve the accuracy and confidence in pesticide exposure/risk assessments and, in the process, facilitate harmonization of pesticide registration globally.

Presentations describing original research, cases studies, and literature review, which address these and related topics, are encouraged. Scientists and regulators engaged in all aspects of pesticide exposure assessment, modeling, and fate evaluation will benefit by active participation.

Suggested Topics

- Relating laboratory and field fate measurements
- Conduct and interpretation of environmental monitoring
- Regulatory relevance of modeling, monitoring, and environmental fate measurements
- Use of modeling vs. monitoring
- Advances in modeling of the environment
- Policy implications of modeling, monitoring or environmental fate
- Improving model accuracy
- Establishing model calibration and validation criteria
- Coupling fate processes and models
- Assessing climate change impact

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Environmental Risk Assessment of Down-the-Drain Chemicals

Purpose of Symposium

A common and ubiquitous manner in which chemicals enter the environment is via transport through residential plumbing to municipal wastewater treatment plants (WWTP). Ultimately, some portion is discharged to surface water where it may be detected and characterized via modern analytical techniques. These “down-the-drain” chemicals originate from many sources, including home and personal care products, cosmetics, human pharmaceuticals, food additives, and indoor use pesticides. Despite their different origins, they share the same transport pathway and discharge to surface water. Therefore, approaches for understanding environmental exposure and its potential effects on aquatic wildlife are a common goal across all commodity groups. In addition, regulatory requirements vary across these types of chemicals, and sharing state-of-the-science approaches to risk assessment is the major objective of this symposium.

This symposium will provide a forum in which scientists, regulators and researchers can share their work on aspects of risk assessment of down-the-drain chemicals, as well as learn from others outside their usual sphere of interaction. Presentations are sought from across all commodity groups and regulatory agencies in which the possibility of environmental exposure/effects may occur via down-the-drain pathways. Presentations incorporating international approaches are especially encouraged.

Suggested Topics

- Modeling of exposure pathways from source to non-target organism
- Understanding potential effects of down-the-drain chemicals on aquatic organisms
- Determination of appropriate “use rates” or production volumes
- Identification and quantification of down-the-drain chemicals in surface water
- Understanding ecological risks from chemical transport via land applied biosolids
- Incorporation of spatial and temporal aspects into down-the-drain risk assessment
- Comparisons of approaches between countries and/or regulatory agencies

For further information, contact the organizers

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***Environmental Statistics: Trend Analysis of Data
in Exposure and Risk Assessment***

Purpose of Symposium

Continuous advancements in statistical assessments and methodology, increasingly more complex datasets, and robust software enable scientists and regulators to advance and to explore new options in determining temporal and/or spatial trends in the exposure of organisms to contaminants in the environment.

This symposium will be geared towards those with interest in advancing statistical methodologies to increase our understanding of exposure and risk in the environment. Particular focus will be on water flow, agricultural chemicals (such as fertilizers and pesticides), and ecological monitoring data. We welcome all with an interest in environmental statistics to participate and contribute.

Suggested Topics

- Temporal analysis of water quality and/or environmental monitoring data
- Implications of temporal changes to risk assessment processes
- Application of biomonitoring data in exposure and risk assessment
- Application of spatial-temporal information landscape exposure and risk assessment
- Novel approaches to trend analysis
- Statistical exposure and risk assessment in water quality
- Development of statistical methodology in exposure and risk assessment

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Environmental Study Design: Current and Emerging Guidelines

Purpose of Symposium

Over the past few years, there has been increased scrutiny by regulatory agencies on the design of environmental studies and interpretation of results. With new emerging technologies and new draft guidelines, it is important for the agricultural industry to understand and meet changing regulatory requirements. The purpose of this symposium is to discuss the study design and best practices for existing and emerging guideline studies in the area of environmental fate and metabolism.

The goal of this symposium is to create a forum for scientists to present optimized study designs, guideline interpretations and experiences with regulatory agencies in order for attendees to gain a better understanding of the study design and challenges in environmental fate and metabolism.

The symposium is proposed for the AGRO division with attendees from the agricultural industry, contract research organizations, university researchers, and regulatory officials.

Suggested Topics

- Study design for surface water mineralization, a new guideline requirement
- Time-dependent sorption study based on draft guidance document
- Characterization of NER in soil and water/sediment degradation studies
- Adsorption/desorption study design and different ways to calculate the sorption isotherms
- Plant-uptake factor study design
- Effect of water treatment processes on the nature of residues present in surface and ground water
- Irradiated water/sediment study – a higher tiered study requirement

For further information, contact the organizers

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***Extraction Efficiency: Bridging between Metabolism Studies
and Residue Analytical Methods***

Purpose of Symposium

Requirements for analytical methods used in residue analysis are rapidly changing globally for both consumer and environmental safety areas. An emerging key requirement for an analytical method is that the residue analysis extraction procedure needs to be adequate to extract all bioavailable relevant residues found in the ¹⁴C metabolism studies. However, not all metabolism extraction procedures could be followed, and the extraction efficiency of residue analysis methods needs to be tested and demonstrated to be comparable with metabolism studies. In addition, guidelines require more sensitive and selective methods with lower limits of quantitation and have posed another challenge for analytical method development.

This symposium will consider recent advances in analytical method development, focusing on extraction procedures, innovative methods that compare extractability obtained from metabolism and residue methods to meet the challenges of new global guideline requirements, and the impact on changes from both new and ongoing feedback from authorities.

This symposium will also generate communication about approaches to develop methods focusing on extraction efficiency. The symposium will encourage discussion about the different approaches to conduct extractability assessments. Other ACS divisions that may benefit from this symposium are ANYL, ENVR, and AGFD.

Suggested Topics

- Streamlining method development (crop grouping approaches, application of new technologies) using global guidelines
- Extractability data generation using cold reference substance
- Challenging analytical methods (problem-solving in unusual matrices or unique molecular properties of analytes), successes and failures
- Developing multiplexed methods: more analytes, more matrices
- Extraction techniques to match the extraction from metabolism studies (Radio-validation)
- Application of innovative tools and advanced instrumentations in metabolism and residue sample analysis

For further information, contact the organizers

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Fate and Metabolism of Agrochemicals
Early Career Scientist Symposium

Purpose of Symposium

This symposium will facilitate the discussions and interactions amongst early career scientists in the agricultural and environmental related areas of:

- a) Innovative methods, tools and instrumentation for investigating the behaviors of agrochemicals in the environment,
- b) Advanced analytical techniques for improving the accuracy or efficiency of analyzing agrochemicals in the environmental matrices,
- c) New approaches or emerging issues in environmental fate and exposure modeling and risk assessment of agrochemicals.

The symposium will advance the understanding of the environmental behavior of agricultural chemicals from various perspectives. This symposium is open for collaboration with other divisions such as ENVR and ANYL.

Suggested Topics

- Characterization of non-extractable residues (NER) in environmental fate and metabolism studies
- Advanced *in vivo* and *in vitro* tools for metabolite identification
- Development in higher tiered environmental fate and exposure modeling: soil, air and water media
- New techniques in sample preparation for environmental residue/metabolism analyses
- Application of advanced analytical techniques in environmental fate and metabolism studies
- Advances in environmental exposure and risk assessment of agrochemicals

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Glyphosate: Current Status and Future Prospects

Purpose of Symposium

Glyphosate is the most used pesticide in the USA and the most used herbicide globally. However, glyphosate-resistant weeds have become a major problem, and questions have been posed about unintended effects of this important herbicide. In addition, glyphosate-resistant crops had been very popular, but their value is waning because of glyphosate-resistant weeds.

This symposium will bring the audience up to date with recent scientific developments related to all aspects of glyphosate.

Suggested Topics

- Glyphosate resistant weeds
- Current status of glyphosate-resistant crops
- Mechanisms of resistance to glyphosate
- Toxicology of glyphosate
- Glyphosate and AMPA in the food supply
- Influences of glyphosate on plant mineral nutrition
- Economics of glyphosate-resistance crops
- The sociodynamics of glyphosate and glyphosate-resistant crops
- Glyphosate hormesis
- Glyphosate and plant disease
- RNAi for glyphosate-resistant weeds

For further information, contact the organizers

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Good Laboratory Practices for the Agrochemical Professional

Purpose of Symposium

Good Laboratory Practices (GLPs) are a set of quality principles that provide a framework within which laboratory studies are planned, performed, monitored, recorded, reported, and archived. GLPs help assure regulatory agencies that the data submitted are a true reflection of the results obtained during the study and can therefore be relied upon when making risk or safety assessments.

The purpose of this symposium is to provide guidance for ensuring the quality and integrity of data submitted to the regulatory agencies, specifically the Environmental Protection Agency (EPA). Participants in this symposium will gain understanding of how GLPs impact the conduct of their studies, learn about common agency findings and how to avoid them, and get an overview of the current regulatory outlook of EPA GLPs.

The target audience includes anyone that works on, or is interested in working on, studies that support applications for research or marketing permits for pesticide products regulated by the EPA, Quality Assurance/Quality Control professionals, and those new to the GLP environment. Divisions that may be interested in attending this symposium include AGRO, AGFD, and ENVR. This symposium will be held in conjunction with the EPA-GLP Specialty Section of the Society of Quality Assurance (SQA).

Suggested Topics

- GLP training for a better understanding of 40 CFR Part 160- guidelines, roles, and responsibilities
- Conduct of EPA agricultural field trials
- Interpretation and enforcement of the regulations- case studies
- EPA updates and GLP advisories
- Management of multi-site studies
- Computer system validation- 21 CFR Part 11
- Best practices in GLP quality assurance
- Good documentation practices, data quality, and data integrity
- Regulatory submissions of pesticide data in the US and worldwide (EPA vs. OECD)
- Development of effective Standard Operating Procedures

For further information, contact the organizer:

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***Increasing the Value of Water Monitoring Data for
Pesticide Fate and Effects Evaluations***

Purpose of Symposium

For many years, the use of water monitoring data for pesticide fate and effects evaluations, whether as chemical or biological measurements, has been discussed, debated, and tested. Water monitoring programs run by state and national governmental entities, programs organized by universities, and studies conducted by the crop protection industry researchers require significant investments in technology and human resources, but have been criticized for inadequate sampling strategies and study designs, among other reasons. These criticisms have resulted in limited use of the data in pesticide risk assessments.

Nevertheless, water monitoring data has been used for a variety of purposes related to regulatory decisions on water quality and evaluation of exposures resulting from pesticide uses. Monitoring data has been used to ground truth model estimated concentrations; however, use of monitoring data in this fashion has been criticized for the same inadequacies mentioned above. For model estimates or monitoring data to describe long-term trends, prediction of medians or other percentiles may be desirable. For comparison to human-health or aquatic-life benchmarks, prediction of annual means or time-weighted average concentrations may be appropriate to assess acute or chronic exposures.

This symposium will provide a forum for researchers and risk assessors and managers to present concepts and share findings related to the use of water monitoring as the basis for decisions. Presentations are encouraged from a wide range of disciplines (e.g., environmental and analytical chemistry, environmental fate, ecotoxicology, ecology, and aquatic biology) and sectors (academia, industry, government research, and regulators).

Suggested Topics

- Sampling strategies or study designs that meet the goals of the monitoring program
- Changes in existing sampling programs to increase the utility and application to a range of potential pesticide uses
- Methods (automated devices, adaptive sampling, analytical, etc.) that increase the efficiency and (or) representativeness of measurements
- Statistical methods to characterize monitoring data
- Practical solutions to managing the costs of monitoring programs
- Approaches to verifying models with experimental or field measurements
- Recommendations for monitoring study designs, including strategies for site selection and sampling frequency
- Using large data sets to draw conclusions on water quality
- Trends in concentrations of pesticides in surface and ground water
- Fate and transport processes that affect monitoring programs
- Integrating monitoring data into tiered risk assessments
- Approaches to interpolate and extrapolate monitoring data to enhance temporal and spatial resolution
- Use of ancillary data, such as pesticide use estimates and GIS data on watershed characteristics, in monitoring study design and/or interpretation of findings

For further information, contact the organizers

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***Innovations in Agrochemical Mode of Action Studies and the
Impact of Global Human Health Requirements***

Purpose of Symposium

Current approaches for toxicity testing rely on identifying adverse effects that occur in rodents, often at very high dose levels. In recent years, there has been a movement towards more relevant toxicity testing strategies, such as limiting high dose levels based on toxicokinetic data or relevance to human exposure. However, given today's current paradigm, adverse effects are often observed in toxicological studies. As a general practice, any treatment-related effect should be evaluated, often by means of additional mechanistic data to characterize a mode of action (MoA). This data can be incorporated in a human relevance framework (HRF) to understand the relevance to humans.

This symposium will review the key aspects of MoA/HRF approaches and explore the state-of-the-art and future opportunities for integrating these approaches into human health risk assessment. It will provide a forum for academic researchers, industry scientists, and regulators to present and discuss recent advances in the area of MoA frameworks.

Suggested Topics

- How frameworks have evolved over time
- How MoA/HRFs impact safety evaluation and risk assessment
- MoA/HRF projects investigating carcinogenesis
- Importance of key events in understanding dose-response
- MoA/HRF advances in investigating developmental and reproductive toxicity
- Recent advances in investigation nuclear receptor activation MoA
- Practical application of adverse outcome pathways
- Approaches for excluding alternative MoAs
- Recent advances in exploring and defining human relevance
- Use of *in vitro* and "omics" tools
- Opportunities for future refinements and advancement

For further information, contact the organizer

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Innovations in Human Health Exposure and Risk Assessment

Purpose of Symposium

The human health risk assessment paradigm is changing. One important aspect of this change is the focus upon refining exposure assessments.

To date, the greater weight has generally been on hazard in the risk assessment process, with exposure being considered retrospectively. The result is the expenditure of considerable time, effort, and resource on acquiring hazard information that ultimately is not always required to reach conclusions on the safety of a chemical. As a result, scientists have been working to develop exposure and risk assessment methods to change this paradigm.

This symposium will focus upon this key aspect of the risk assessment process, exposure, and emphasize how a better understanding of human exposure can refine agrochemical risk assessment. It will provide a forum for academic researchers, industry scientists, and regulators to present and discuss recent advances in the area of exposure assessment for chemicals.

Suggested Topics

- Innovations in dietary and non-dietary exposure assessment
- Exposure assessment approaches used by global regulatory agencies
- Toxicokinetics and the use of 'systemic dose' data
- Probabilistic exposure modeling
- Model development to assess human exposure
- Population exposure model development/status
- Use of human biomonitoring data
- Internal dosimetry for dose-response and exposure assessments
- Physiologically based pharmacokinetic modeling
- Biomonitoring equivalents
- Problem formulation, utilizing existing information, and starting with exposure assessment (rather than hazard)
- *In vitro*-to-*in vivo* extrapolation modeling to allow better the relationship between MoA and exposure

For further information, contact the organizer

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Innovative Approaches in Designing Agrochemical Metabolism Studies

Purpose of Symposium

The primary objectives of an agrochemical metabolism study are to define the qualitative and quantitative nature of its residue in the target organism or media and to postulate a metabolic pathway, which requires characterization and identification of over 90% of the total radioactive residue (TRR) in each sample. This requirement applies equally to plant, animal, fish, and soil metabolism studies.

The analytical techniques which are used to identify metabolites are constantly advancing, and it becomes imperative to use the state-of-the-art technique to facilitate identification of metabolites. Similarly, novel innovative approaches are being designed to conduct agrochemical metabolism studies to aid in the structure elucidation of metabolites. Typically, identification of metabolites is carried out either by co-chromatographic retention time comparison with known reference compounds using two dissimilar chromatographic systems and/or unequivocal identification by LC/MS/MS and/or NMR.

This symposium will focus on recent advances in designing metabolism studies and novel analytical tools to identify nanogram/picogram level metabolites that assist in the postulation of a metabolic pathway.

Suggested Topics

- Recent innovative advances in designing plant and animal metabolism studies
- Challenging issues during metabolite identification, successes and failures
- New sequential enzymatic and chemical methods in the characterization and identification of bound residues
- Challenges in isolation and purification of polar metabolites and conjugates
- Innovative and more sensitive LC/MS/MS confirmatory methods for identification of polar metabolites and conjugates
- Importance of high resolution accurate mass QTOF MS in metabolite identification
- Comparative *in vitro* metabolism studies
- Role of *in vitro* metabolism studies in facilitating identification of complex *in vivo* metabolites
- Recent advances in fish metabolism studies
- Evaluation of new European Guideline requirements for conducting fish metabolism studies
- Radio-validation of metabolism studies extraction procedures as a new guideline requirement

For further information, contact the organizers

Jalees Afzal, BASF Corporation, 919-547-2597, jalees.afzal@basf.com

M. A. F. Jalal, Valent USA Corporation, 925-948-2944, maf.jalal@valent.com

Abstracts (300 words or less) must be submitted to

<http://maps.acs.org>

January 25, 2016 - March 21, 2016



Call for Papers
252nd ACS National Meeting & Exposition
August 21-25, 2016
Philadelphia, Pennsylvania USA

Natural Products as Biorational Pesticides in Agriculture

Purpose of Symposium

Chemical products from nature have been used to control pests since the early beginnings of agriculture. Since these primitive years, natural products have played a direct role in controlling weeds, insects, plant pathogens, and nematodes.

This symposium will highlight the use and importance of natural products as biorational pesticides as related to agricultural commodities. Talks will focus on the isolation of and applied use of natural products to agricultural systems. Chemical ecologists, chemists, biocontrol scientists, entomologists, and plant physiologists will benefit from the presentations. ACS members from Biochem, Analytical, ENVR, and AGFD will find the topics applicable to their fields.

Suggested Topics

- Host plant volatiles as attractants of herbivorous insects
- Synthetic formulations of host plant volatiles as an insect monitoring tool
- Sensitive collection techniques for *in situ* or in-field analyses of plant volatiles
- Plant-insect, plant-microbe interactions that influence insect pests or beneficial insects
- Plant- or microbe-produced natural products that influence insects, pathogens, nematodes, or weeds
- Plant-plant interactions that influence plant defense systems

For further information, contact the organizers

John J. Beck, USDA-Agricultural Research Service, 510-559-6154, john.beck@ars.usda.gov

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<http://maps.acs.org>

January 25, 2016 - March 21, 2016



Call for Papers
252nd ACS National Meeting & Exposition
August 21-25, 2016
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Neonicotinoid Insecticides: Use, Fate, and Effects

Purpose of Symposium

Neonicotinoid insecticides have been under increased scrutiny because of their implications in pollinator declines and as potential aquatic toxicants. They are the most widely used class of insecticides in the world. The use of these compounds has been increasing (especially in the United States) mainly through the use of seed coatings. Because of toxicity concern, some countries have limited the use of neonicotinoids.

The goal of this symposium is to highlight current research from industry, government agencies, and academia on neonicotinoids.

Suggested Topics

- Different application techniques: seed coatings, foliar applications, in-furrow treatments
- Tracking use in both urban and agricultural areas
- Concentration in the environment and organisms: air, water, soil, sediment, plants, pollen
- Behavior in the environment and organisms: sorption, degradation, leaching, bioconcentration
- Characterizing transformation products and metabolites
- Effects on insects (target and non-target) and other organisms (aquatic organisms, birds)
- Risk assessment of neonicotinoids

For further information, contact the organizers

Michelle Hladik, U.S. Geological Survey, 916-278-3183, mhladik@usgs.gov

Xiaoxia Lu, Peking University, China, +86-10-62745067, luxx@urban.pku.edu.cn

Abstracts (300 words or less) must be submitted to

<http://maps.acs.org>

January 25, 2016 - March 21, 2016



Call for Papers
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***Novel Analytical Methods for Analysis of
Emerging Contaminants of Concern: Advances and Challenges***

Purpose of Symposium

Emerging contaminants, chemicals recently detected in the environment, have been an area of concern for decades due to lack of knowledge of their presence, fate, and toxicity. The definition of “emerging” adapts as chemicals recognized earlier are considered persistent pollutants and other chemicals are newly discovered.

Analysis and study of emerging contaminants is a continual process of refining existing methods for known contaminants and discovering/adapting methods for newly emerging contaminants. This symposium focuses on the improvement of existing processes or the application of new methods, protocols, materials, or techniques. Analysis of targeted and non-targeted contaminants, including transformation products, is relevant. This session may be of interest to ANYL and ENVR members.

Suggested Topics

- Novel methods, materials, or techniques relevant to emerging contaminants
- Improvements on current time-consuming methods
- Advances in sampling, experimental methods, and throughput
- Advances in software and other data handling tools
- Applications in environmental, food, and other matrices

For further information, contact the organizers

Yelena Sapozhnikova, USDA-Agricultural Research Service, 215-233-6655, yelena.sapozhnikova@ars.usda.gov
Laurel Dodgen, University of Illinois Urbana-Champaign, 217-300-1461, lkododgen@illinois.edu

Abstracts (300 words or less) must be submitted to
<http://maps.acs.org>
January 25, 2016 - March 21, 2016



Call for Papers
252nd ACS National Meeting & Exposition
August 21-25, 2016
Philadelphia, Pennsylvania USA

Protection of Agricultural Productivity, Public Health, and the Environment (General Session)

Purpose of Symposium

The AGRO Division currently has programs in 15 topic areas, but not all topics are developed into a technical symposium at every meeting.

The General Session therefore allows our members and other scientists to submit papers even though a specific symposium topic is not offered. This year only poster presentations are possible; every attempt will be made to group papers into “mini-symposia” within this session.

Technical Topics for AGRO

- Advances in Agrochemical Residue, Analytical and Metabolism Chemistry, and Metabolomics
- Air Quality and Agriculture
- Agrochemical Toxicology and Mode of Action
- Bioenergy, Bioproducts, and Biochars: Advances in Production and Use
- Biorational Pesticides, Natural Products, Pheromones, and Chemical Signaling in Agriculture
- Development of Value-added Products from Agricultural Crops and Byproducts
- Developments in Integrated Pest Management and Resistance Management
- Environmental Fate, Transport, and Modeling of Agriculturally-related Chemicals
- Human and Animal Health Protection: Vector Control, Veterinary Pharmaceutical, Antimicrobial and Worker Protection Products
- Human Exposure and Risk Assessment
- Protection of Agricultural Productivity, Public Health, and the Environment
- Regulatory Harmonization and MRLs
- Synthesis of Bioactive Compounds
- Technological Advances and Applications in Agricultural Science (e.g., Nanotechnology, Genetically-modified Organisms and Biocontrol Agents)
- Urban Agriculture- Turf, Ornamentals, Household Products, and Water-Re-Use

For further information, contact the organizer

Jay Gan, University of California-Riverside, 951-827-2712, jgan@ucr.edu

Abstracts (300 words or less) must be submitted to

<http://maps.acs.org>

January 25, 2016 - March 21, 2016



Call for Papers
252nd ACS National Meeting & Exposition
August 21-25, 2016
Philadelphia, Pennsylvania USA

Subsurface Fate of Pesticides

Purpose of Symposium

Historically, most of the data collected on pesticide environmental fate has focused on the behavior of the applied chemicals near the land surface where the application is made. Efforts to improve predictions of subsurface transport and impacts on groundwater in pesticide risk assessments have highlighted limitations in the existing data for prediction of the behavior of pesticides in the vadose zone and groundwater. Pesticide persistence and partitioning characteristics in subsoil and aquifer environments vary substantially from surface soils.

This symposium will explore current efforts to design studies to fill in gaps in the knowledge of pesticide behavior in subsurface environments. Results of subsurface fate studies will be presented along with application to the prediction of subsurface transport and groundwater resources in the context of regulatory risk assessments.

Suggested Topics

- Macro- and micro-spatial variability in pesticide mobility and persistence
- Microbial metabolism of pesticides in low-organic matter subsoil and aquifer materials and its impact on long-term fate of pesticides and groundwater exposure potential
- Importance of hydrolysis as a dissipation process and determining factor for the eventual level of residues observed in groundwater
- Changes in pesticide sorption characteristics with depth and the importance of nonlinearity and time-dependence of adsorption in determining the level of impact on groundwater
- Characterization of drinking water wells and their source aquifers to support design of pesticide fate evaluations and exposure assessments
- Improvements in the design of field leaching and groundwater monitoring studies to support broader predictions of leaching and groundwater contamination potential

For further information, contact the organizers

Michael R. Barrett, US EPA, 703-305-6391, barrett.michael@epa.gov

Yunjie Ding, Dow AgroSciences, 317-337-4479, yding1@dow.com

Michael Xiao Huang, DuPont Crop Protection, 302-451-3598, michael-xiao.huang@dupont.com

Amy Ritter, Waterborne Environmental, 703-777-0005, rittera@waterborne-env.com

Abstracts (300 words or less) must be submitted to

<http://maps.acs.org>

January 25, 2016 - March 21, 2016



Call for Papers
252nd ACS National Meeting & Exposition
August 21-25, 2016
Philadelphia, Pennsylvania USA

***Synthesis and Chemistry of Agrochemicals:
Symposium in Memory of Dr. Thomas Bretschneider***

Purpose of Symposium

This symposium will be dedicated to the memory of Dr. Thomas Bretschneider of Bayer CropScience. It will highlight recent research in the synthesis and chemistry of agrochemicals. Talks which describe the design, isolation, synthesis, biology and/or structure-activity relationships of new chemistry targeting crop protection are welcomed.

Suggested Topics

- Insecticides: agronomic, urban, or animal health
- Herbicides
- Fungicides
- Nematicides

For further information, contact the organizer

Tom Stevenson, DuPont Crop Protection, 302-366-5744, thomas.m.stevenson@usa.dupont.com

Abstracts (300 words or less) must be submitted to
<http://maps.acs.org>
January 25, 2016 - March 21, 2016



Call for Papers
252nd ACS National Meeting & Exposition
August 21-25, 2016
Philadelphia, Pennsylvania USA

***Terrestrial Field Dissipation Studies: Current Regulatory Guidance,
Study Design, and Utility of Data in Exposure and Risk Characterization***

Purpose of Symposium

Global regulatory guidance for the conduct of terrestrial dissipation studies has evolved within the last 10 years. Initially, the U.S. Environmental Protection Agency (US EPA) and Pest Management Regulatory Agency (PMRA) introduced a harmonized guidance document in 2006. In 2010, The European Food Safety Authority (EFSA) introduced a guidance document for evaluating laboratory and field dissipation studies to obtain a degradation half-life (DegT50) for plant protection products. More recently, The Organization for Economic Co-operation and Development (OECD) has embarked on a project to harmonize international guidance for conducting these studies.

This symposium seeks to bring together international stakeholders involved in the conduct and evaluation of terrestrial field dissipation studies. The status of the proposed OECD harmonized guidance will be presented. The symposium organizers invite individuals to offer papers and/or posters for consideration under the suggested topics.

Suggested Topics

- Study designs to address specific dissipation pathways
- Study designs, challenges, and comparisons of dissipation studies conducted under current US EPA and EFSA guidance
- Best practices and data trends observed, e.g., test substance application verification approaches, soil sampling techniques, evaluation of water movement, moisture input management, etc.
- Tools to define and compare ecoregions in North America, Europe, and beyond
- Use of terrestrial dissipation data in groundwater modeling, environmental exposure, and risk characterization

For further information, contact the organizers

Andy Newcombe, Arcadis, 302-984-1702, andy.newcombe@arcadis.com

Richard Allen, Valent U.S.A. Corporation, 925-948-2934, richard.allen@valent.com

Ralph Warren, BASF Corporation, 919-547-2064, ralph.warren@basf.com

Abstracts (300 words or less) must be submitted to

<http://maps.acs.org>

January 25, 2016 - March 21, 2016



Call for Papers
252nd ACS National Meeting & Exposition
August 21-25, 2016
Philadelphia, Pennsylvania USA

Who Should Regulate Pesticides in Our Food?

Purpose of Symposium

Governments create food standards to ensure an abundant food supply is available for all. How have these standards become more than a means to ensure the fair trading of food?

Keeping fresh produce free of bacterial and fungal contamination before it hits our plates is the goal we all desire and deserve! But, pesticide residues in our food are perceived to be a concern by many consumers, too, not only here in the United States, but around the world. Growing local organic food is a laudable enterprise, but producing enough food to feed the world's growing population requires the use of crop protection—herbicides, fungicides and insecticides. And, these chemicals may leave trace residues in the harvested produce. Communicating the reality of growing food, feeding the world, and the science behind Maximum Residue Levels (MRLs) will be thoroughly explored and discussed.

Join a lively debate on how chemical pesticides are regulated at the governmental level and further managed along the food chain in order to keep fresh, healthy produce on our tables 365 days of the year.

Suggested Topics

- Addressing food waste in the world with pesticides
- Food Standards: regulatory MRLs versus retailers' secondary standards
- Pesticide residues in my food: a consumer's perspective
- Using crop protection chemicals to grow healthy food: a grower's perspective, a food processor's perspective
- Regulating pesticide residues at the federal and state levels
- Retailers' secondary standards: what they are and why they exist
- Marketing produce overseas: an international trader's perspective
- Impact on MRLs from new crop groups
- Growers' and consumers' expectations from registrants
- Do MRLs impact trade or vice versa?

For further information, contact the organizers

Phil Brindle, BASF Agricultural Solutions, 919-547-2654; philip.brindle@basf.com
Heidi Irrig, Syngenta, 336-632-7243, heidi.irrig@syngenta.com
Carmen Tiu, Dow AgroSciences, 317-337-4041, tcarmen@dow.com

Abstracts (300 words or less) must be submitted to
<http://maps.acs.org>
January 25, 2016 - March 21, 2016



AGRO Program Committee

Standing Programming and Champions

Scott Jackson, 2017 Program Committee Chair

Additional Volunteers Needed for Washington, DC 2017

Contact: scott.jackson@basf.com

Advances in Agrochemical Residues, Analytical and Metabolism Chemistry, and Metabolomics

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Rod Bennet, rodney.bennett@criticalpathservices.com
Chad Wujcik, chad.e.wujcik@monsanto.com
Teresa Wehner, t.a.wehner@att.net

Air Quality and Agriculture

Laura McConnell, laura.mcconnell@bayer.com
Jim Seiber, jnseiber@ucdavis.edu
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Scott Yates, scott.yates@ars.usda.gov

Agrochemical Toxicology and Mode of Action

John Clark, jclark@vasci.umass.edu
Tom Sparks, tcsparcks@dow.com
Dave Soderlund, dms6@cornell.edu

Bioenergy, Bioproducts, and Biochars: Advances in Production and Use

Ashli Brown, abrown@bch.msstate.edu
Cathleen Hapeman, cathleen.hapeman@ars.usda.gov

Biorationale Pesticides, Natural Products, Pheromones, and Chemical Signaling in Agriculture

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Joel Coats, jcoats@iastate.edu
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Development of Value-added Products from Agricultural Crops and Byproducts

Jim Seiber, jnseiber@ucdavis.edu

Developments in Integrated Pest Management and Resistance Management

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Tory Anderson, anderst@vt.edu
Si Hyeock Lee, shlee22@snu.ac.kr

Discovery and Synthesis of Bioactive Compounds

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Wenming Zhang, wenming.zhang@dupont.com

Ecosystem and Human Health/Exposure and Risk Assessment

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Curt Lunchick, curt.lunchick@bayer.com
Dan Stout, stout.dan@epa.gov

Environmental Fate, Transport, and Modeling of Agriculturally-related Chemicals

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Pam Rice, pamela.rice@ars.usda.gov
Jay Gan, jgan@ucr.edu

Formulations and Application

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Human and Animal Health Protection: Vector Control, Veterinary Pharmaceutical, Antimicrobial and Worker Protection Products

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Regulatory Harmonization and MRLs

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Heidi Irrig, heidi.irrig@syngenta.com

Technological Advances and Applications in Agricultural Science (e.g., Nanotechnology, Genetically-modified Organisms, and Biocontrol Agents)

John Clark, jclark@vasci.umass.edu
Daniel Goldstein, daniel.a.goldstein@monsanto.com

Urban Agriculture: Turf, Ornamentals, Household Products, and Water-Re-Use

John Clark, jclark@vasci.umass.edu

Additional Symposia at most National Meetings

- Awards and Tributes
- Protection of Agricultural Productivity, Public Health and the Environment – General Session
- Special Topics



Comments from the Vice-Chair

Scott Jackson, 2017 Program Committee Chair

Strong programming and long-term planning are critical components to the continued success of AGRO. Last year, Program Chair Pamela Rice and the Program Committee put together an outstanding scientific program for the 250th ACS National Meeting and Exposition in Boston, MA. This year, Program Chair Jay Gan has another excellent program on tap for the 252nd ACS National Meeting to be held in Philadelphia, Pennsylvania, August of 2016, with about 30 planned symposia.

As you are hopefully aware, the 2017 254th American Chemical Society National Meeting and Exposition meeting will be in Washington, DC. Let us continue our momentum and history of strong programming through brainstorming and preparation of symposia topics for the 2017 meeting.

As an individual or as part of a team, organizing and chairing a symposium is rewarding, career-building, and a great-networking experience. AGRO enthusiastically supports symposium organizers with 7 Easy Steps for Organizing a Symposium and provides technical assistance from Officers and Program Champions. We are actively seeking volunteers, newer scientists, and Standing Program Champions to submit their symposium ideas for the 2017 Washington, DC. Meeting and even the 2018 meeting to be held in Boston.

You can submit your programming ideas before, during, or after the Philadelphia meeting to scott.jackson@basf.com. If you are attending the Philadelphia meeting, you can also submit your ideas at the AGRO table. Look for announcements in the eNewsletter, the next *PICOGRAM*, and on the website, and plan to attend the Program Planning Meeting (Blues and Brews) in Philadelphia. We look forward to hearing from you!



PROGRAMMING & OUTREACH ACTIVITIES

2016 – 2018

Activity/Event	Leaders/ Champions	Status	Actions Required
AGRO Lunch and Learn Webinar Series	Laura McConnell	<ul style="list-style-type: none">Recordings of all previous webinars available free on the AGRO websiteProposals for 2016-2017 webinars are being accepted	<ul style="list-style-type: none">Contact Laura McConnell or Julie Eble
53rd North American Chemical Residue Workshop July 17-20, 2016 St. Pete Beach, Florida	Steve Lehotay	<ul style="list-style-type: none">Co-Sponsored by AGROProgram to be released in February	<ul style="list-style-type: none">Submit abstracts for oral presentations by April 15, 2016
252nd ACS National Meeting August 21-25, 2016 Philadelphia, Pennsylvania	Jay Gan	<ul style="list-style-type: none">Call for Papers – submit abstracts before March 21, 2016. DEADLINE IS FIRM!	<ul style="list-style-type: none">Prepare to attend and participate in the meeting
254th ACS National Meeting August 20-24, 2017 Washington, DC	Scott Jackson	<ul style="list-style-type: none">Check the eNewsletter for planning session information at Philadelphia	<ul style="list-style-type: none">Volunteers and champions NEEDED!!Symposia proposals due November 15, 2016
256th ACS National Meeting August 19-23, 2018 Boston, Massachusetts	2017 Vice Chair	<ul style="list-style-type: none">Check the eNewsletter for planning session information at Philadelphia	<ul style="list-style-type: none">Volunteers and champions NEEDED!!Symposia proposals due November 15, 2017

Future ACS National Meetings

251st ACS National Meeting & Exposition

Computers in Chemistry

March 13-17, 2016, San Diego, California

252nd ACS National Meeting & Exposition

Chemistry of the People, by the People and for the People

August 21-25, 2016, Philadelphia, Pennsylvania

253rd ACS National Meeting & Exposition

April 2-6, 2017, San Francisco, California

254th ACS National Meeting & Exposition

August 20-24, 2017, Washington, DC

255th ACS National Meeting & Exposition

March 18-22, 2018, New Orleans, Louisiana

256th ACS National Meeting & Exposition

August 19-23, 2018, Boston, Massachusetts

258th ACS National Meeting & Exposition

August 25-29, 2019, San Diego, California

260th ACS National Meeting & Exposition

August 23-27, 2020, San Francisco, California

Thinking about organizing a symposium for a future National Meeting?

It's really not that difficult. Here's how:

AGRO SUPPORTS SYMPOSIUM ORGANIZERS

- Assistance with developing a symposium summary and Call for Papers
- Help with identifying co-organizers
- Funding to help with travel, non-member registrations (\$500 each ½ session)

7 EASY STEPS FOR ORGANIZING A SYMPOSIUM

1. Propose, adopt, or borrow a symposium topic (*e.g., Chemistry for and from Agriculture*)
2. Inform the AGRO Program Chair, who will add to the list and arrange for Program Committee endorsement
3. Develop a paragraph summary of the symposium scope and potential lecture topics (template is on the website)
4. Identify one or more co-organizers if desired
5. Recruit speakers and invite abstracts (Half-day = 5-8 speakers; 1 day = 12-15 speakers)
6. Review and accept abstracts, order your speakers/sessions
7. Chair the symposium session

2015 - 2016 Lunch and Learn Webinar Series

Evolution of Herbicide Resistance

April 13, 2016, at 12:00 PM Eastern US Time



Patrick J. Tranel
University of Illinois at Urbana-Champaign

New Insect Management Biopesticides from Insect-Repelling Folk Remedies

May 11, 2016, at 12:00 PM Eastern US Time



Charles Cantrell
USDA-ARS
Oxford, Mississippi



Todd Gaines
Colorado State University

**SPECIAL THANKS TO
OUR SPONSOR FOR
THEIR GENEROUS
CONTRIBUTION!**





July 17-20, 2016

TradeWinds Island Grand
St. Pete Beach, Florida USA

JOIN US!

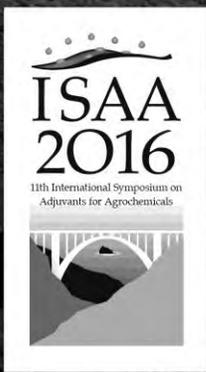
Our workshop reflects the scope and international nature of topics covered in a scientific program which includes: pesticides, veterinary drugs, environmental contaminants, toxins, and other chemicals of concern in food, environmental, and related applications

Expected Submission Deadlines:

Oral presentations: April 15; Poster presentations: June 1
Manuscripts related to the meeting may be considered for publication in a special section of *Journal of Agricultural and Food Chemistry*

www.nacrw.org

Sponsored by FLAG Works, Inc., a non-profit organization which has an agreement with ACS (via the AGRO Division) to help plan and to coordinate this event



*Creating, Bridging,
and Sharing the Values
of Adjuvant Technology*

Calls for Sponsorship and Abstracts

11th International Symposium on Adjuvants for Agrochemicals

20-24 June 2016

Monterey, California, USA

Please join us in Monterey in 2016 in one of two ways:

Contacting the organizers to find out how your company can be showcased at this premier event or

By submitting an abstract on our submission page accessible from www.isaa2016.org

between 1 January and 20 June 2015!

Purpose of Symposium

ISAA 2016 will bridge together more than 450 adjuvant professionals from industry, academia and national laboratories working in all areas of agrochemicals, from crop protection formulations to new application technologies.

We will highlight novel adjuvant chemistries (both within formulations and as mixed into applications) essential to good product designs that enable efficient crop protection and minimize undesired outcomes.

With new and changing technological tactics and issues external to the industry (demand for sustainable technologies, changing regulatory environment, resistance, extreme weather, etc.), science in agrochemical adjuvants are indeed bridging mankind toward agriculture's important goal of feeding a more populated and prosperous world.

Alongside these traditional general sessions:

- Biological performance, use and application
- Modeling, methods, and mode of action
- Formulation and adjuvant technology

We will highlight and encourage scholarship in these particular issues:

- Green and sustainable formulations
- Formulations for plant nutrition enhancement
- Technologies for uptake into targets
- Technologies for enhanced tank mix compatibility
- New perspectives on application timing and tactics, including seed coating, triggered and timed release
- Old chemistries resurrected through new formulations
- Reducing undesired outcomes and risks such as spray drift
- Water and heat stress management
- Regulatory issues germane to North America and California

For further information, contact the organizers

Solito Sumulong, ISAA 2016 Organizing Chair, Winfield, LLC, River Falls, WI, USA, +1 651-236-7224, SASumulong@landolakes.com

Andrew Malec, ISAA 2016 Scientific Chair, Advanced BioCatalytics, Irvine, CA, USA, +1 949-394-0352, amalec@abiocat.com

AGRO Division Officers, Councilors, and Executive Committee

AGRO DIVISION OFFICERS



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Program Chair

Jay Gan

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Vice Chair

Scott Jackson

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Jeanette Van Emon, vanemon.jeanette@epa.gov

Aldos Barefoot, Alternate

Kevin Armbrust, Alternate

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AGRO Division Past Chairs

1969 Donald G. Crosby
 1970 Elvins Y. Spencer
 1971 Wendell Phillips
 1972 Philip C. Kearney
 1973 Roger C. Blinn
 1974 Charles H. Van Middlelem
 1975 Henry F. Enos
 1976 Julius J. Menn
 1977 James P. Minyard
 1978 Gerald G. Still
 1979 S.K. Bandal
 1980 Jack R. Plimmer
 1981 Marguerite L. Leng
 1982 Gino J. Marco
 1983 G. Wayne Ivie
 1984 Robert M. Hollingsworth

1985 John Harvey, Jr.
 1986 Henry J. Dishburger
 1987 James N. Seiber
 1988 Paul A. Hedin
 1989 Gustave K. Kohn
 1990 Willa Garner
 1991 Guy Paulson
 1992 Joel Coats
 1993 Larry Ballantine
 1994 Nancy N. Ragsdale
 1995 Don Baker
 1996 Barry Cross
 1997 Willis Wheeler
 1998 Judd O. Nelson
 1999 Richard Honeycutt
 2000 Ann T. Lemley

2001 Jeffery Jenkins
 2002 Terry D. Spittler
 2003 Jeanette Van Emon
 2004 Rodney Bennett
 2005 Allan Felsot
 2006 R. Donald Wauchope
 2007 Laura L. McConnell
 2008 John J. Johnston
 2009 Kevin L. Armbrust
 2010 Ellen L. Arthur
 2011 Kenneth D. Racke
 2012 Aldos C. Barefoot
 2013 John M. Clark
 2014 Stephen O. Duke
 2015 Cathleen J. Hapeman

What the AGRO Committees Do

AWARDS COMMITTEE

Purpose: This committee administers awards offered by the Division to the extent authorized by the Division Executive Committee. The awards program is an integral part of the Division, its purpose being to recognize and encourage outstanding contributions to our science and our Division.

Composition: The Awards Committee Chair is appointed. The Committee consists of ten or more members who are senior and mid-career scientists, including past winners of the ACS International Award for Research in Agrochemicals and/or Division Fellows.

BYLAWS COMMITTEE

Purpose: This Committee ensures that the Division's bylaws are maintained in accordance with changes in Division operations and in accordance with any changes requested either by the ACS, by ACS bylaw changes, or by the Division Executive Committee.

Composition: The Bylaws Committee is appointed. Members consist of currently serving Councilors.

** COMMUNICATIONS COMMITTEE

Purpose: This Committee coordinates the Division's communication and publication activities. This includes management of the AGRO Division website, publication of the *PICOGRAM*, compilation of the AGRO eNewsletter, advancement of publication efforts through ACS Books, and publicizing of Divisional activities.

Composition: The Communications Committee Chair is appointed. The Committee Chair appoints at least three additional members.

DEVELOPMENT COMMITTEE

Purpose: This Committee interfaces with the patrons of our industry to coordinate support of our Division's scientific activities.

Composition: The Development Committee Chair is appointed. The Treasurer is a member, and several other members are appointed by the Committee Chair.

** EARLY CAREER SCIENTIST COMMITTEE

Purpose: This Committee promotes the interests of students, postdoctoral researchers, and early career scientists and enhances their participation in programs of the AGRO Division. The Committee oversees education and development efforts concerning early career scientists and administers the graduate student travel award program and the New Investigator Award.

Composition: The Early Career Scientist Committee Chair is appointed. The committee consists of 6 or more members including at least 2 graduate students or recent post-grads, one member of the Membership Committee, and one member of the Communications Committee.

FINANCE COMMITTEE

Purpose: The purpose of the Finance Committee is to monitor the financial activities of the Division.

Composition: The Finance Committee Chair is appointed; incumbent Treasurer is an ex-officio member. The Committee Chair nominates approximately four members who have reasonably strong financial skills.

** INTERNATIONAL ACTIVITIES COMMITTEE

Purpose: The International Activities Committee (IAC) seeks to enhance the role of AGRO in the broad international scientific community and to enrich its membership experience by promoting international collaborations and interactions among its members. It exists to facilitate coordination of international activities within AGRO, and to increase the participation of scientists from all countries in AGRO. The committee also acts to provide information and support to scientists outside of the United States who are interested in AGRO.

Composition: The International Activities Committee Chair is appointed. The Committee consists of six or more members.

NOMINATING COMMITTEE

Purpose: The Nominating Committee develops a slate of qualified candidates for the elected Division offices that need to be filled for the following calendar year.

Composition: The Nominating Committee Chair is the Immediate Past Chair; other members are traditionally the past two Chairs.

** MEMBERSHIP COMMITTEE

Purpose: The purpose of the Membership Committee is to develop programs and activities for the recruitment of new members to the Division and to the ACS, as well as to develop activities and programs for the retention of existing members.

Composition: The Membership Committee Chair is appointed; three or more members are appointed with the advice and approval of the Executive Committee.

** PROGRAMMING COMMITTEE

Purpose: The purpose of the Programming Committee is to plan, develop, and implement the Division's technical program.

Composition: The Programming Committee Chair is the Division Vice-Chair; the Division Program Chair is a committee member. The Committee Chair nominates as many members as necessary to assure that the Division's programming requirements are met.

** SOCIAL COMMITTEE

Purpose: This Committee directs social events in coordination with other Committees and maintains a hospitality table in the area where Division sessions are located at the fall ACS meeting.

Composition: The Social Committee Chair is appointed; additional members are identified by the Committee Chair and appointed with Division Chair and EC approval.

STRATEGIC PLANNING COMMITTEE

Purpose: This Committee will assist the Executive Committee in development and implementation of the Division's strategic plan.

Composition: The Strategic Planning Committee Chair is appointed and confirmed by the Executive Committee. The Committee Chair appoints eight or more members.

**** New volunteer committee members are being sought**

AGRO Division Committees

AWARDS COMMITTEE

James Seiber, Chair, 530-752-1465
jseiber@ucdavis.edu

MEMBERS: John Casida, Janice Chambers, John Marshall
Clark, Joel Coats, Steve Duke, Bruce Hammock, Ernest
Hodgson, Robert Hollingworth, Bob Krieger, Ralph Mumma,
Hideo Ohkawa, Sharon Papiernik, Nancy Ragsdale, Will
Ridley, David Soderlund, Don Wauchope, Izuru Yamamoto,
Scott Yates

BYLAWS COMMITTEE

Rodney Bennett, rodney.bennett@criticalpathservices.com
Jeanette Van Emom, vanemon.jeanette@epa.gov

COMMUNICATIONS COMMITTEE

Cathleen Hapeman, Co-Chair, *PICOGRAM* Editor
301-504-6451, cathleen.hapeman@ars.usda.gov
Laura McConnell, Co-Chair, Webmaster
919-549-2012, laura.mcconnell@bayer.com
Jeff Jenkins – Public Relations
Nancy Ragsdale – Pesticide Outlook Liaison
Sharon Papiernik – Awards Coordinator
Yelena Sapozhnikova – eNewsletter Coordinator

DEVELOPMENT COMMITTEE

Scott Jackson, Co-Chair, 919-547-2349
scott.jackson@basf.com
Del Koch, Co-Chair, 573-443-9003
kochd@abclabs.com
Laura McConnell, 919-549-2012
laura.mcconnell@bayer.com

EARLY CAREER SCIENTIST COMMITTEE

Diana Aga, Co-Chair, 716-645-4220
dianaaga@buffalo.edu
Marja Koivunen, Co-Chair, 530-574-1837
mekoivunen@gmail.com
Steven Lehotay, New Investigator Award Coordinator
215-233-6433, steven.lehotay@ars.usda.gov
MEMBERS: Troy Anderson, David Barnekow, John Clark, Joel
Coats, Jay Gan, Vincent Hebert, Ann Lemley, Glenn Miller

FINANCE COMMITTEE

Joel Coats, Chair, jcoats@iastate.edu
Del Koch, Ex Officio, kochd@abclabs.com
MEMBERS: Kevin Armbrust, Al Barefoot, Barry Cross, Scott
Jackson, Kenneth Racke

INTERNATIONAL ACTIVITIES COMMITTEE

Ken Racke, Co-Chair, 317-337-4654
kracke@dow.com

Jay Gan, Co-Chair, 951-827-2712
jgan@ucr.edu

MEMBERS: Eloisa Dutra Caldas, Paul Hendley, John Johnston,
Rai Kookana, Steven Lehotay, Weiping Liu, Laura
McConnell, Karina Miglioranza, Jim Seiber, Keith Solomon,
John Unsworth

MEMBERSHIP COMMITTEE

Steven J. Lehotay, Chair, 215-233-6433
steven.lehotay@ars.usda.gov
MEMBERS: John Beck, Leah Riter, Daniel Swale

2016 NOMINATING COMMITTEE

Cathleen Hapeman, Chair, 301-504-6451
cathleen.hapeman@ars.usda.gov
Steve Duke, 662-915-1036
stephen.duke@ars.usda.gov
John Clark, 413-545-1052
jclark@vasci.umass.edu

PROGRAMMING COMMITTEE (see p. 50 for listing)

Scott Jackson, Chair, 919-547-2349
scott.jackson@basf.com

Webinar Subcommittee

Julie Eble, Co-Chair, 610-558-3001
julie.eble@criticalpathservices.com
Laura McConnell, Co-Chair, 919-549-2012
laura.mcconnell@bayer.com
MEMBERS: John Clark, Steve Duke, Cody Howard

SOCIAL COMMITTEE

Jeff Jenkins, Co-Chair for venue, 541-737-5993
jeffrey.jenkins@oregonstate.edu
Jessica Malin, Co-Chair for social program, 302-451-3597
jessica-nicole.malin@dupont.com

STRATEGIC PLANNING COMMITTEE

Ashli Brown, 2016 Co-Chair, 662-325-3428
abrown@mscl.msstate.edu
Julie Eble, Co-Chair, 610-558-3001
julie.eble@criticalpathservices.com
Laura McConnell, Advisor, 919-549-2012
laura.mcconnell@bayer.com
MEMBERS: *This Committee is being reconstituted in Winter 2016
in preparation for the Strategic Planning Meeting in Fall 2016*

ACS AGRO Division Combined Governance Meeting

Sunday, August 16, 2015

5:00-9:00 PM

Park Plaza Imperial Ballroom

Minutes

Sharon Papiernik, Secretary

ATTENDANCE

Officers: Cathleen Hapeman, Chair; Pam Rice, Program Chair, Jay Gan, Vice Chair; Stephen Duke, Past Chair; Del Koch, Treasurer; Sharon Papiernik, Secretary; Rodney Bennett and Jeanette Van Emon, Councilors; Kevin Armbrust and Al Barefoot, Alt Councilors

Executive Committee Members (EC): Michael Barrett, John Beck, Wenlin Chen, Julie Eble, John Johnston, Mike Krolski, Steve Lehotay, Leah Riter, Amy Ritter

Committee Chairs: Diana Aga, Joel Coats, Ken Racke, Jim Seiber

Incoming EC Members and Officers: Charles Cantrell, Scott Jackson, Tom Stevenson, Carmen Tiu

Guests: Jalees Afzal, Andrew Coates, Aaron Gross, Pat Havens, Weiyang Jiang, Ann Lemley, Edmund Norris, Peney Patton, Jaben Richards, Luis Ruzo, Manasi Saha, Teresa Wehner

1. Programming/Program Chairs

a. **Boston – Pam Rice**

- i. 381 presentations in 46 half-day oral sessions (29 symposia; 5 concurrent sessions Monday – Wednesday; 4 concurrent sessions Sunday and Thursday) and 18 poster sessions. Programming in 11 of the 15 technical topics.
- ii. Survey is available for SETAC Global Research Needs for Environmental Quality; this is a collaboration between AGRO, ENVR, and SETAC. SETAC is seeking 3 AGRO liaisons from industry, academia, and government. More information is available on SETAC website.
- iii. Pam acknowledged all symposium organizers, especially first-time symposium organizers.
- iv. Pam proposed that to encourage new leadership in AGRO, student travel grants should include a portion for presenting their research plus a portion for attending either the governance or programming meeting

b. **MAPS and ACS Rules – P. Patton**

- i. Peney is retained as a consultant to AGRO
- ii. MAPS has not been the clean transition ACS wanted, but they have been providing training. Don't let abstract system discourage symposium organizers. ACS promises MAPS will perform better in the future.
- iii. For this meeting, AGRO needed to turn in workbooks with abstracts submitted and session assignments. Many workbooks were incomplete. This is very important; incomplete workbooks are overwhelming to program chair to try to sort things out.

iv. This has just come to AGRO's attention: ACS registrations for national meetings are configured to incentivize ACS membership: For early registration, the member registration rate + 1-year membership is less than the non-member rate. In addition, ACS also offers special sponsored 1-day registrations that are typically ~\$100. These are considered complimentary registrations by ACS – they are intended to broaden the ACS program and are supposed to be reserved for people who are non-members and who are not eligible for ACS membership (example, non-scientists like attorneys, politicians). Invited chemical scientists can have their registration sponsored by AGRO but at the regular ACS rate (1-day or multi-day, costing \$300 - \$600). In 2015, about 10% of the invited AGRO speakers were offered the special sponsored rate. If sponsored registration is used as ACS intends, this would cost far more. The Division needs to ensure that symposium organizers are aware of the sponsored registration requirements and ACS policy. Organizers should not have the authority to offer complimentary registrations. Organizers should seek financial sponsorship to enable speaker incentives beyond AGRO funds.

MOTION: Guidelines for complimentary registration should be updated by a subcommittee of Racke, Barefoot, and Patton. Decisions on complimentary registration should reside with Program Chair. Passed.

c. **Philadelphia – J. Gan**

- i. AGRO has very good continuity of program leadership, so Jay is confident that a good program will result. Jay will be looking for symposium organizers. He is attending MAPS training.
- ii. PICOGRAM page 42 includes a list of members of the programming committee and program champions; more are welcome. Leah Riter volunteered to be a champion. Champions will be solicited using the eNewsletter. The entire list should be updated.

ACTION: An announcement soliciting program champions will be included in an upcoming AGRO eNewsletter. The program chair will endeavor to update the complete list of champions to include those committed to AGRO programming.

d. **Co-sponsored Meetings/Symposia – Luis Ruzo, others**

- i. ECYART/AGRO Lectureship: Lectureship has been going successfully for 3 years, with US scientists visiting Peru for 1 week each. Luis proposes that next year, funding be provided for Peruvian scientists to visit American labs. His Foundation provides \$25,000/year in funding through AGRO. AGRO co-sponsorship enhances the credibility and standing of the award and enhances the Division's international activities. John Johnston will continue to coordinate program.

MOTION: In 2016, AGRO should use \$25,000 in funding provided by ECYART to sponsor Peruvian scientists to visit American labs and/or attend US meetings. (Rather than US scientists lecturing in Peru.) Passed.

- ii. SETAC: Liaison for AGRO to SETAC-NA scanning workshop that will be held at Salt Lake City SETAC meeting. Deadline for nomination is August 31, 2015. E-mail Pam if you're interested.

2. Treasurer's Report – D. Koch

a. Budget

2014 IUPAC was not typical: Meeting grants were sizable and allocation from ACS was higher in 2015 based on number of papers in 2014 (IUPAC). 2015 expenses to date do not reflect most meeting expenses. Loss in 2014 was offset against gain of \$135,882 in 2013 (sponsorships for IUPAC).

b. Question

Have funds been moved from education funds?

No, although withdrawals were authorized, with current cash flows, no funds have been removed from endowment funds. Because disbursements are expected from endowment funds, non-endowment balances might not be accurate reflections of the budget.

The EC should be careful to keep this in mind:

Operating funds are supporting all AGRO activities and can be moved back to endowment funds if other operational activities take precedence. For example, if AGRO reimburses speakers at regular registration rate rather than special sponsored rate, then costs per symposium would increase if the same number of speakers is supported.

3. 2015 Nominating Committee – S. Duke

a. Activity

Duke, Clark, Barefoot solicited AGRO members willing to run for office. The committee obtained the spreadsheet of eligible voters from ACS and used VoteNow as in previous years. Ballot issued May 29 with a deadline June 19. 23.4% of members voted (compared with 21.7% in 2014) – this was the highest percentage of membership voting.

Results: Scott Jackson (Vice Chair), Sharon Papiernik (Secretary), Del Koch (Treasurer), Daniel Swale, Charles Cantrell, Hiedi Irrig, Carmen Tiu, Thomas Stevenson (Executive Committee members-at-large).

b. 2016 Nominating Committee

The committee will consist of Clark, Duke, Hapeman. If you're interested in running, contact Cathleen.

4. Finance Committee – J. Coats

a. Status

AGRO is in good shape, thanks to Laura and Ken for organizing a highly successful IUPAC.

b. Future

i. Aiming to remove 3.5% of education fund per year; the account is returning to its pre-crash balance. Need to be careful to disperse funds within 501c3 rules.

ii. Cathleen directed the Finance Committee to develop a 2016 plan prior to the next teleconference.

ACTION: Finance Committee to develop a 2016 plan prior to the next quarterly AGRO teleconference.

5. Awards Committee – J. Seiber

a. Awards at this meeting

Keith Wing - 2015 International Award - symposium is Monday (organized by Tom Sparks); Tom Sparks – 2015 Innovation Award – session is Wednesday; Thomas Selby is 2015 Spencer Award winner (sponsored by KC Section) – session is Wednesday; Jim Tumlinson is Hendricks Lectureship recipient (AGRO/AGFD) – session is Tuesday; two AGRO members are receiving ACS Fellow Award: Rod Bennett and John Johnston. Rod was nominated by DAC;

JAFc lecturers are Neil Reese and Thorsten Reemtsma (Tuesday 9-10). This is the last year for co-sponsored symposium by AGRO and AGFD. Only 1% of papers were nominated for best paper. New JAFc editor is interested in changing the award presentation not in a special session, but to have them embedded in an appropriate session and to increase the number of papers nominated.

b. 2016 International Award

The recipient is Yoshihisa Ozoe of Shimane University in Japan. It will be presented in Philadelphia.

c. Call for Nominations

i. Committee is soliciting nominations for 2016 Innovation Award and 2017 International Award.

ii. ACS-wide award for integration of sustainability into education. AGRO may have a good nominee for that award.

iii. Nominate colleagues for AGRO Fellow. Nominations can be submitted any time. One person (not present) suggested that it should be the responsibility of the Vice-Chair to ensure that there are at least 2 nominees for AGRO Fellow.

MOTION: AGRO Vice-Chair will ensure that at least 2 nominations for AGRO Fellow are submitted each year. Passed.

d. New Investigator Award – Steve Lehotay

Four finalists, one is international. Increasing stipend to \$1275 so that speakers can stay for whole meeting. See page 33 of *PICOGRAM* vol. 88 for finalist bios.

e. New DuPont Contact for International Award

Al Barefoot has for 20 years been DuPont representative for support of International Award. Sergio Nanita will be replacing Al in that role.

6. Bylaws Committee – R. Bennett

National bylaws committee is going through division bylaws step-by-step. AGRO will need to submit current bylaws to national committee for review. Formatting will change. The number of classifications of membership may change. Rodney will report back in 2016.

7. Early Career Scientist Committee – D. Aga

Received 25 applications but 1 failed to submit a short abstract so 24 awards were made: \$600 award + \$200 registration. All are presenting posters. Now have one e-mail for submission, and this worked well. Some submitted to AGFD or ENVR but those were transferred to AGRO. Need to emphasize that AGRO is correct division. Most students will be at Monday's luncheon. Submissions typically come from the same few universities, but this year 3 new institutions submitted nominations.

8. Councilor's Report – J. van Emon, R. Bennett

a. Society issues

i. Society is looking at attendance and membership trends and those will be transmitted to divisions via DAC. Most people who attend national meetings do not belong to a technical division. ACS.org homepage will be updated so that Divisions are in an obvious box to increase visibility

ii. Society wants to communicate best practices to chairs and chairs-elect.

iii. Unauthorized meeting capture policy remains unchanged.

iv. Working group on job market for chemical professionals: Report is due at Philadelphia meeting.

b. MAPS update

AGRO is among 9 of 36 divisions that are participating in training. Will include discussions of cross-division programming. Changes in MAPS will be an improvement; more programming will be back under division control. Organizers should not reject abstracts but they should be moved to another session unless they are truly unsuitable for AGRO. This was an issue with MAPS. New program chair will need to be aware of this.

ACTION: Program chair should provide guidance to symposium organizers: Organizers should not reject abstracts but they should inform the program chair of abstracts that don't fit. These will be moved to another session unless they are truly unsuitable for AGRO.

c. Expulsion

A petition for a policy on member expulsion is being circulated. Mainly for unethical practices like plagiarism or misrepresentation of ACS. Needs to be addressed across committees.

d. Society Affiliate vs Division Affiliate

Proposal to Society to change policy so that ACS members do not have lower rights and privileges than Division Affiliates.

e. MPPG programming

Divisions that are very active in MPPG determine programming. Ashli Brown-Johnson is AGRO's MPPG representative. This is a good opportunity for AGRO. Upcoming national meeting themes are pertinent to AGRO.

f. DAC question

DAC is asking how ACS can provide better administrative support to divisions? Cathleen will respond on behalf of AGRO to this request for feedback.

g. Division Row

New Society guidelines will require division posters; these would be displayed at "Division Row" at Sci-Mix and elsewhere.

h. Presentations on Demand

These will be discontinued. Switching to podcasts or minipods. Divisions can nominate presenters and presentations could be disseminated through the division.

i. New DAC Chair

Rod was chosen to be incoming head of DAC. Congratulations, Rod!

9. Membership Committee – S. Lehotay

a. Member numbers

AGRO has 2030 members including affiliate members, increased since January. Goal in next 3 months is to maintain members. Membership needs to be worthwhile, and Membership Committee has plans to encourage membership.

b. Suggestion

Could ACS include on membership sign-up page a "you may also be interested in..." divisional membership option based on credentials? Councilors note that ACS is interested in improving appearance and utility of website.

Break for refreshments: 7:00

10. Strategic Planning Committee – C. Hapeman

Ashli Brown is chair but could not attend this meeting. Plan will be 5 years old next year, so it is time to update. Julie Eble volunteered to assist in the development of ideas for the new strategic plan and pushing things through ACS leadership. They will report out at a future teleconference.

11. Communications Committee – C. Hapeman

a. eNewsletter

We are striving for more frequent eNewsletter. Yelena is leading this. At least one per month, more frequent as meeting approaches.

b. PICOGRAM

i. Current printed *PICOGRAM* does not include abstracts; neither will future versions. They are available on the AGRO website

ii. *PICOGRAM* is sent to all regular members; it is not sent to international affiliates. AGRO members who registered for the meeting will not be receiving a *PICOGRAM*. Does this inadvertently punish AGRO members who also attend the meeting?

MOTION: AGRO should continue the previous procedure that all AGRO members who do not indicate that they picked up a *PICOGRAM* at the national meeting will be mailed a paper copy of the *PICOGRAM*. Passed.

ACTION: Make a bigger/more prominent sign indicating that AGRO members should sign when they pick up their *PICOGRAM*.

12. Social Committee – J. Jenkins, J. Malin

Neither was present; no report

13. Development Committee – S. Jackson

Normally after IUPAC, there is a ripple where sponsorship declines. AGRO did not experience that in 2015. The committee is functioning very well and members complement each other well. Have a few new sponsors.

14. International Activities Committee – K. Racke, J. Gan

a. Racke submitted a report. They are looking for new committee members.

b. \$40-\$50K profit from IUPAC; boosted membership.

c. **Co-sponsored Meetings/Symposia – J. Johnston**
i. PacifiChem

1. Three symposia sponsored by AGRO: *Phytochemicals for Crop Protection: Discovery to Molecular Target*; *Opportunities and Advancements in Rice Research and Aquaculture*; and *Proteomics and Metabolomics in Agricultural, Environmental, and Public Health*. Thanks to AGRO members for organizing these sessions.

2. We have historically co-sponsored Pan Pacific meeting with Pesticide Science Society of Japan. AGRO is focusing on PacifiChem but is open to partnering with PSSJ on Pan Pacific.

Future opportunities: open to additional co-sponsorship of conferences and webinars.

ii. ECYART Lectureship already covered earlier in the meeting

iii. Can AGRO host IUPAC Award for Advances in Harmonized Approaches to Crop Protection Chemistry in Philadelphia?

iv. AGRO will play some role in IUPAC 2018

v. Should be able to attract more participants from Asia because pesticide science is really active there. Look to IPG for funding opportunities

15. Continuing Business

a. *Innovative Project Grants – S. Lehotay*

- i. Swale and Jensen are organizing a session with a goal of encouraging more new early career scientists to become more active in organizing symposia.
- ii. Still have \$3425 in membership IPG. AGRO needs to expand its base. Consider identifying professors who normally do not attend ACS; incentivize membership by providing complimentary registrations if they become an AGRO member. With this idea, Lehotay proposed to reimburse people who are participating in Swale and Jensen's symposium. What if this cannot be done in 2015? IPG money cannot be returned to ACS but if unspent is deducted from future IPG awards. The spirit of the IPG has been fulfilled. IUPAC supplemented IPG, so all funds were not spent. So a letter will be sent to DAC specifying that all obligations of IPG have been met. Need to make sure that all funds are spent in support of IPG.

ACTION: Past Chair, Treasurer, Lehotay, and Councilors will meet offline to discuss and act.

b. *Student Travel Award – D. Aga, others*

- i. Can Student Travel Awards be extended to oral in addition to posters?

MOTION: Modify the student travel grant program to allow grants for oral as well as poster presentations using the following guidance:

1. Grants for oral and poster presentations will be given in an amount up to \$600 plus registration in accord with current practice.
2. The number of oral presentations should usually constitute fewer than 25% of the total grants awarded.
3. A poster presentation will be a required prerequisite for submitting a request for an oral presentation.
4. Grants will be given to encourage students from as wide a range of research areas as possible consistent with the goal of maintaining a competitive system.
5. The program coordinators will obtain agreement from the AGRO officers for any awards that fall outside the scope of the normal operation of the program.

Passed.

- ii. Discussion: sub-committee recommended

1. Continue the current AGRO practice of including students in sessions (oral or poster) where their presentations are relevant.
2. Provide grant awardees with tips and hints for giving an oral paper.
3. Decide whether the prerequisite poster must be presented at an AGRO meeting.

iii. Questions: Are oral participants also eligible for first, second, third place awards? Could the program include a way to provide feedback on their presentations? [How about providing that feedback instead of participating in judging and cash awards for oral presentations? How about providing forms for audience feedback for student presentations?] Would the poster need to be presented in AGRO? [No, any national or international meeting.] What is the reason for 75% of total travel grants being posters? [Wanted to keep student poster session strong.] How does

this interact with symposium planning? How to fit people in sessions?

ACTION: Cathleen tasked existing sub-committee to consider these discussion items in developing an implementation plan within the next 30 days.

c. *eNewsletter subscriptions – Y. Sapozhnikova*

Yelena was not in attendance. No report.

d. *Lunch and Learn webinars – J. Eble*

McCConnell and Eble are continuing to head this. They are open to suggestions. Watch for good talks with vibrant speakers at this meeting. Maybe JAFAC Lecture Award winners could do a webinar.

16. New business

a. *National Historic Chemical Landmark – Phytochrome Discovery*

At AGRO's recommendation, USDA-ARS Beltsville Agricultural Research Center (BARC) was recognized by ACS. Sterling Hendricks worked at BARC. Designation ceremony will be on October 21, 2015. The chair of the Division (Pam) should be there.

MOTION: AGRO should sponsor this award ceremony in an amount not to exceed \$3000, to include travel expenses for AGRO representatives to participate in the ceremony. Passed.

b. *Nomination for AGRO representative to Committee on Science*

This is a standing committee of ACS that looks for new topics, innovations, etc. Each Division is asked to nominate someone to serve on this committee.

ACTION: This matter is deferred to Pam to deal with after the national meeting.

c. *Proposal to extend complementary AGRO membership to "highly engaged authors and reviewers of ACS publications"*

- i. Thinking to increase engagement with China, India, and Brazil. Journal editors can make recommendation to division. Or the division can identify people who should be offered complementary membership.
- ii. Died for lack of a motion. In effect may be tabled until another request is made from ACS.

d. *JAFAC Editorial Board considerations*

i. Rod, Cathleen, and Steve Lehotay met with JAFAC editor Thomas Hofmann. AGRO concerns will be discussed at editorial advisory board and the editorial board meeting. Right now, there are no JAFAC AEs who are AGRO members. AGRO representatives were very encouraged by Hofmann's attitude. Authors of agrochemicals papers should be careful to address journal guidelines in their cover letter to avoid being summarily dismissed for lack of relevance. Past chair will work with Hofmann to develop set of guidelines for AGRO members to ensure their manuscript is relevant to JAFAC. This document will be posted on AGRO website. Hofmann is revising journal scope, etc. Two AGRO members have been nominated to serve as AEs. Hofmann's selection as editor was to increase the journal's impact factor.

ii. AGRO will continue to be diligent in ensuring that AGRO is represented on editorial board and that AGRO-related papers are considered for publication.

17. Recognition of Incoming and Outgoing Chairs

- . Duke – awarded Past Chair pin
- . Hapeman – presented with Certificate of Appreciation

18. Adjourn

Councilor Report for the 250th National Meeting & Exposition Boston, Massachusetts Fall 2015

Jeanette M. Van Emon and Rodney Bennett, Councilors

ACS President's Report: Dr. Dianne Schmidt reported that 2015 was the 20th anniversary of the ACS Scholars Program and that the \$1 Million Dollar fund raising goal was met. Procter & Gamble, made a major pledge bringing the company's giving to the \$1 million Benefactor Level. Tom Connelly and Dianne Schmidt convened a summit of Chief Technology Officers. ACS benefits by learning the current issues most critical to the success of the chemistry enterprise, resulting in ACS programs to serve our industry members. The White House Office of Science & Technology Policy noted the success of the ACS nanotechnology symposia, resulting in the National Nanotechnology Coordination Office enlisting the help of ACS to publicize a Grand Challenge on Nanotechnology. These collaborations will continue to promote future Grand Challenges. The ACS established a Presidential Task Force on Addressing Workforce Needs through a partnership of Industry and Two-Year Colleges.

ACS President Elect's Report: Dr. Donna Nelson reported that good progress has been made by the Task Force on Employment in the Chemical Sciences. It is critical that current and future employment needs are recognized and addressed by ACS to benefit its membership. This special Task Force has been meeting to identify needs and speaker invitations have been extended to the authors of blogs devoted to the chemical community to determine community opinions and concerns. The Task Force will soon initiate reports on activities and results, via articles and symposia at ACS meetings, and will continue to collect opinions and concerns via poster sessions at ACS meetings. You can communicate your opinions and concerns to this Task Force by sending an email to its chair, Attila Pavlath (attilapavlath@yahoo.com). Programming based on the Task Force activities is being planned for the National ACS Meeting in San Diego. A main goal of the Task Force will be implementation of solutions to address the various needs identified.

ACS Immediate Past President's Report: Dr. Thomas Barton reported that \$60K remaining from his Presidential Fund will be turned over to existing ACS education projects such as ACS Scholars, ACS Science Coaches, Project Seed, and for the continued sponsorship of high-school chemistry programs at all Regional Meetings. One of the most challenging areas today is education, especially in providing uniform high-quality K-12

science education in the US. He and the current ACS President, are forging a stronger relationship with the American Chemical Council.

ACS Chairman of the Board's Report: Dr. Pat Confalone reported that based on the recommendation of the Committee on Grants and Awards and the Committee on Public Relations and Communications, the Board voted to approve a Society nominee for the National Science Board Public Service Award. On the recommendation of the Committee on Grants and Awards and the Committee on Younger Chemists, the Board voted to approve a Society nominee for the 2016 Alan T. Waterman Award. On the recommendation of the Committee on Budget and Finance, the Board voted to: approve a \$415 advance member registration fee for national meetings held in 2016; authorize a new program funding request for the ACS Festival Series program; and to reauthorize funding for the ACS Science Coaches program.

Dr. Tom Connelly, the Executive Director and CEO updated the Board on the activities of Chemical Abstracts Service (CAS), the ACS Publications Division, and the Society's Secretary and General Counsel. The ACS Member Insurance Program and Lloyds of London are providing an Educators Legal Liability insurance plan for chemists in the academic field. This new plan will help protect educators against risks within classrooms and labs and for community outreach activities.

Membership Affairs Committee (MAC) Report: The Membership Affairs Committee (MAC) continues to focus on new efforts to recruit and retain members. As of July 31, 2015, the ACS membership was 156,561, which is 2,055 less than on the same date in 2014. The number of new members who have joined this year is 14,457, which is 147 less than this time last year. The Society's overall retention rate is 84%. The number of international members has increased to 25,989. That number is 1,014 higher than in July of 2014. The international retention rate is 85%.

Committee on Science (ComSci) Report: ComSci remains focused on increasing understanding of emerging frontiers in science, developing public policies to advance science in society, and recommending outstanding chemical scientists for prestigious external awards. ComSci voted to recommend approval of the draft ACS policy statement on energy, and to form a writing team to update the ACS policy on forensic science. The committee was pleased that the Board approved the new ACS policy statement on hydraulic fracturing.

Divisional Activities Committee (DAC) Report: Mike Morello reported that DAC, in partnership with the Committee on International Activities (IAC), recently completed a review of a white paper to help divisions identify, evaluate, and pursue international engagement opportunities. The committee received an update on the Meeting Abstracts Programming System, also known as MAPS. Staff outlined several changes to MAPS, as well as a number of changes regarding the process by which the programs are developed. Two sessions were offered in Boston to train program chairs on these recent upgrades. In addition, web-based training will be available beginning in October 2015. There is a new function on the ACS Website "acs.org web pages" that help division and local section volunteers execute their duties. DAC voted to fund 14 Innovative Project Grants (IPG) totaling

\$77,050. The committee will consider another set of IPG proposals during the March 2016 San Diego National Meeting. DAC is developing mechanisms for divisions to share best practices, and will hold a webinar with division leaders to identify areas where this sharing is most desired. Operating as a DAC subcommittee, the Multidisciplinary Program Planning Group is proposing the following 2018 national meeting themes to the divisions for their consideration: Spring/New Orleans: *Nexus of Food, Energy and Water*; Fall/Boston: *Nanotechnology*. The Division Chem Luminary Award Winners were: The Division of Inorganic Chemistry: "Recognition of Innovation and Outstanding Service to Members of a Division"; The Division of Chemical Health & Safety: "Most Unique Project as Funded by an IPG"; and The Divisions of Business Development & Management and Small Chemical Businesses (*in conjunction with the Northeastern Section*): "Outstanding Collaboration Between ACS Local Sections and Divisions".

Committee on Constitution and Bylaws (C&B): C&B certified 14 Bylaws in 2015; three under the expedited bylaw process. C&B is working with one Local Section and had reviewed Bylaws for 9 local sections and 2 divisions since the Spring 2015 meeting in Denver.

Committee on Budget and Finance (B&F): The committee reviewed the Society's 2015 probable year-end financial projection which calls for a Net Contribution from Operations of \$15.5 million, or \$2.1 million higher than the Approved Budget. Total revenues are projected at \$512.1 million which at \$481,000 favorable, is essentially on budget. Total expenses are projected at \$496.6 million, which is \$1.6 million or 0.3% favorable to the approved. This variance is the result of lower-than-budgeted expenses across almost all major expense categories.

BYLAWS***
OF THE
DIVISION OF AGROCHEMICALS
OF THE
AMERICAN CHEMICAL SOCIETY

*** Proposed bylaws submitted August 2012. Effective TBD. Approved, as amended, by the Committee on Constitution and Bylaws, acting for the Council of the American Chemical Society.

Bylaw I. Name and Objects

Section 1. The name of this organization shall be the Division of Agrochemicals (hereinafter referred to as the "Division") of the AMERICAN CHEMICAL SOCIETY (hereinafter referred to as the "SOCIETY").

Section 2. The objects of the Division shall be to bring together persons particularly interested in agrochemicals, to consider all scientific aspects of chemistry relevant to the control of pests of agricultural or public health significance and to other methods for enhancing or modifying agricultural productivity, to develop and improve the professional stature of chemists with these interests, and to render whatever service it may to the scientific and lay communities on the topic of agrochemicals.

Bylaw II. Members and Affiliates

Section 1. Membership in the Division shall be open to all members of the SOCIETY. Application for membership shall be made in writing to the Secretary of the Division and shall be accompanied by one year's dues.

Section 2. A Society Affiliate of the SOCIETY may apply to the Secretary to become a Society Affiliate of the Division. Provided that Division dues established for Society Affiliates are paid, a Society Affiliate shall have all the privileges of membership in the Division except those of voting for or holding an elective position of the Division, voting on articles of incorporation or bylaws of the Division, or serving as a voting member of its Executive Committee.

Section 3. The Division may accept Division Affiliates who are not members or Society Affiliates of the SOCIETY but who wish to participate in the activities of the Division. Such affiliates shall be entitled to all the privileges of membership in the Division save those withheld by the Bylaws of the SOCIETY.

Section 4. Members may resign their membership in the Division by submitting their resignation, in writing, to the Secretary during the year for which their dues are paid.

Section 5. The name of any member of the Division who is in arrears in payment of dues by as much as one year shall be stricken from the rolls. A member dropped for nonpayment of dues may be reinstated upon payment of arrearages.

Section 6. Affiliates shall retain affiliate status only so long as payment is made of Division dues. An affiliate's name is to be stricken from the rolls as soon as the affiliate is in arrears in the payment of dues.

Section 7. The anniversary dates of Division members and National Affiliates of the Division shall coincide with their anniversary dates in the SOCIETY.

Bylaw III. Officers and Councilors

Section 1. The officers of the Division shall be a Chair, a Chair-Elect, a Vice-Chair, a Secretary, and a Treasurer. The Chair-Elect shall automatically succeed to the office of Chair upon expiration of the latter's term of office or if this office becomes vacant. The Vice-Chair shall automatically succeed to the office of Chair-Elect upon expiration of the latter's term of office or if this office becomes vacant. The offices of Secretary and of Treasurer may be held by one individual. Only MEMBERS are eligible to hold elective positions.

Section 2. The duties of the Chair shall be to preside at meetings of the Executive Committee, to carry into effect the decisions and recommendations of the Committee, to preside at stated meetings of the Division, and to appoint all committees except as otherwise provided.

Section 3. The duties of the Chair-Elect shall be to serve in the absence of the Chair of the Division and to act as Chair of the Program Committee.

Section 4. The duties of the Vice-Chair shall be to serve in the absence of the Chair-Elect and to act as Assistant Chair of the Program Committee, with particular emphasis on planning and developing technical programs.

Section 5. The duties of the Secretary shall be to keep minutes of all meetings of the Division and of the Executive Committee; to keep a roll of Division members and affiliates and to submit the same annually to the Executive Director of the SOCIETY for verification as provided in the Bylaws of the SOCIETY; to conduct the business correspondence of the Division as assigned to the Secretary by the Chair or by the Executive Committee; to prepare and submit an annual report of Division activities to the SOCIETY as required in the SOCIETY's Bylaws; to perform such other duties as may, from time to time, be assigned by the Chair or Executive Committee or required by the SOCIETY's Bylaws.

Section 6. The Treasurer shall act as custodian of the funds of the Division, collect dues and other revenues, and pay the bills of the Division after the same have been authorized by the Executive Committee. The Treasurer shall maintain accurate records of receipts and disbursements and shall submit a report of the financial condition of the Division at the annual meeting of the Division. The Treasurer shall furnish a surety bond, the premium for which shall be paid from Division funds.

Section 7. Councilors and Alternate Councilors shall represent the Division on the Council of the SOCIETY as provided in the Constitution and Bylaws of the SOCIETY.

Section 8. The Division shall have an Executive Committee, which shall consist of the officers of the Division; the Immediate Past Chair of the Division; the Councilors and Alternate Councilors; the Chairs, Chairs-Elect, Vice-Chairs, and Immediate Past Chairs of Subdivisions, if any; and fifteen (15) Members-at-Large. The Chair of the Division shall serve as Chair of the Executive Committee.

Section 9. The officers of the Division other than the Chair and the Chair-Elect shall be elected by ballot as described elsewhere in these bylaws.

Section 10. At the annual meeting of the Division, the Executive Committee shall appoint a Nominating Committee consisting of at least three members, one of whom shall be the Immediate Past Chair of the Division, who shall serve as Chair of this Committee. This Committee shall nominate two candidates for the office of Vice-Chair and at least ten (10) candidates for the positions as Members-at-Large to be filled on the Executive Committee. This Committee shall nominate candidates for each of the following offices to be filled: Councilor, Alternate Councilor, Secretary, and Treasurer. This Committee shall submit a report in writing to the Chair of the Division for preparation of the ballot to be mailed to the membership. Additional nominations may be made in writing by any group of at least five members and presented to the Chair of the Division not less than three months prior to the fall meeting.

Section 11. Officers and Members-at-Large shall be elected by the members and Division Affiliates of the Division. Only members of the Division may vote for Councilors and Alternate Councilors. The Secretary or other designated officer of the Division shall prepare an election ballot, on which shall appear the names in order chosen by lot of all candidates nominated and found willing to serve. The form of the ballot and procedures for balloting will be in compliance with the overall procedures of the Society. The Tellers shall count the ballots thus received, using the list of members provided by the Secretary to verify the eligibility of all those voting. Any ballot envelope not validated by the voter's accompanying hand-inscribed name shall be rejected. The Secretary shall set and announce in advance of the balloting the interval during which ballots must be received to be counted; this interval shall not be less than four nor more than seven weeks following the ballot mailing. The Tellers Committee, appointed by the Chair of the Division, shall be responsible for counting all valid ballots received within the interval and shall certify the results to the Secretary, who shall in turn certify the results to the SOCIETY, the elected officials, and the Division. Elections are to be by plurality, should there be more than two candidates for an office. Resolution of a tie vote shall be made by the Executive Committee.

Section 12. The Chair, the Chair-Elect, the Vice-Chair, the Secretary, and the Treasurer of the Division shall serve for one year or until their successors are elected.

Section 13. The terms of office of the Members-at-Large of the Executive Committee shall be three years. Five Members-at-Large shall be elected each year.

Section 14. The terms of Councilors and Alternate Councilors and all officers excluding the Chair, Chair-Elect, and Vice-Chair shall begin on January 1 following their election. The terms for Chair, Chair-Elect, and Vice-Chair shall begin at the conclusion of the fall meeting of the SOCIETY.

Section 15. Vacancies in offices other than Chair and Chair-Elect shall be filled by the Executive Committee. Incumbents so selected shall serve until the next regular election.

Bylaw IV. Councilors

The Division shall have Councilors and Alternate Councilors whose terms of office shall be three years. Alternate Councilors shall serve only for specific meetings of the Council when a Councilor is not able to attend.

Bylaw V. Committees

Section 1. There shall be a Program Committee, consisting of three or more members, one of whom shall be the Chair-Elect of the Division, who shall serve as Chair of the Committee. A second member of the Committee shall be the Vice-Chair. The Program Committee shall have the entire responsibility for organizing the program of papers for all Division meetings. It shall work cooperatively with other Divisions of the SOCIETY and other bodies in planning joint sessions and symposia of mutual and timely interest.

Section 2. There shall be a Membership Committee of three or more members. This Committee shall aggressively promote membership in the Division by members of the SOCIETY.

Section 3. There shall be a Finance Committee of two or more members. This Committee shall audit the accounts of the Treasurer prior to the business meeting of the Division and report its findings at the annual meeting. This Committee shall advise the Executive Committee on financial resources.

Section 4. There shall be an Awards Committee of at least six members. This Committee shall maintain and develop the Division and International Awards Programs.

Section 5. There shall be a Social Committee of at least two members. This Committee shall direct social events in coordination with other committees and maintain a hospitality table at Division meetings.

Section 6. There shall be a Communications Committee of at least three members. This Committee shall be responsible for coordination of the communication and publication activities of the Division, (including newsletter, *PICOGRAM*, and other Division publications).

Section 7. Special committees may be appointed to consider, conduct, and report upon such special matters as may be delegated to them.

Section 8. Except where otherwise provided, committee appointments shall be made by the Chair, with the advice and approval of the Executive Committee.

Bylaw VI. Dues

Section 1. Members of the Division shall pay annual dues, the exact amount to be decided by the Executive Committee. Dues are payable in advance. Members who have been granted emeritus status by the SOCIETY and who are interested in the work of the Division shall be granted all privileges of Division membership without the payment of annual dues.

Section 2. Affiliates shall pay annual dues of \$2.00 more than members, except that Division Affiliates who are regularly

matriculated students specializing in a chemical science shall pay annual dues of an amount to be decided by the Executive Committee.

Bylaw VII. Subdivisions

Section 1. Composition. The Division may sponsor Subdivisions devoted to specialized fields within the area of Division interest. Membership in the Division shall be a requirement for membership in a Subdivision.

Section 2. Formation. Formation or discontinuance of a Subdivision shall be at the discretion of the Executive Committee of the Division. Steps to initiate a Subdivision may be made by petition of a group of Division members to the Executive Committee or by the action of the Executive Committee. The scope of the activities of any Subdivision shall be defined by the Executive Committee.

Section 3. Officers. Upon approval of the formation of a Subdivision, the Executive Committee of the Division shall appoint a Chair, Chair-Elect, Vice-Chair, and Secretary for the Subdivision. The Chair-Elect shall assume the office of Chair after one year. In succeeding years the Subdivision shall elect at the annual meeting a Chair-Elect and a Secretary. The Chair, a Chair-Elect, and Secretary shall constitute a Steering Committee for the Subdivision. This Steering Committee shall report through the Chair of the Subdivision and be responsible to the Executive Committee of the Division, of which Subdivision Chairs shall be members *ex officio*.

Section 4. Funds. The necessary expenses for each Subdivision shall be authorized by the Executive Committee of the Division from Division funds and shall be paid by the Treasurer of the Division upon the usual authentication.

Bylaw VIII. Meetings

Section 1. There shall be a meeting of the Division at each a national meeting of the SOCIETY at least once per year, unless the Executive Committee votes otherwise, provided the requirements for a minimum number of meetings as specified in the SOCIETY Bylaws shall be met.

Section 2. The annual meeting of the Division shall be held at one of the national meetings of the SOCIETY. The fall meeting of the SOCIETY will be designated as the annual meeting unless otherwise instructed by the Executive Committee. Division business requiring vote of the membership shall be conducted only at this meeting, except as provided elsewhere in these bylaws, or as directed by the Executive Committee.

Section 3. Special meetings of the Division may be called by the Executive Committee, provided notice is given to the membership in writing or by publication in *Chemical & Engineering News* at least two months in advance.

Section 4. Fifteen (15) members of the Division shall constitute a quorum for the conduct of business.

Section 5. The fee for registration at any special meeting shall be decided by the Executive Committee in accordance with the Bylaws of the SOCIETY.

Section 6. The rules of order in the conduct of Division meetings not specifically provided in these bylaws or in the SOCIETY's documents shall be the most recent edition of *Robert's Rules of Order, Newly Revised*.

Bylaw IX. Papers

Section 1. The Program Committee may approve or reject papers submitted for presentation before any meeting of the Division.

Section 2. The rules for papers presented before meetings of the SOCIETY as outlined in the Bylaws and Regulations of the SOCIETY shall govern the Division.

Bylaw X. Amendments

Section 1. These bylaws may be amended at any annual meeting of the Division by a two-thirds (2/3) vote of the members present. All amendments shall be submitted in writing to the Secretary at least sixty (60) days prior to the meeting. Upon approval of the Executive Committee, the Secretary shall send the text of the proposed amendment to the members of the Division at least thirty (30) days prior to the annual meeting.

Section 2. Amendments shall become effective upon approval by the Committee on Constitution and Bylaws, acting for the Council, unless a later date is specified.

Bylaw XI. Dissolution

Upon dissolution of the Division, any assets of the Division remaining thereafter shall be conveyed to such organization then existent as is dedicated to objects similar to those of the Division and the AMERICAN CHEMICAL SOCIETY, or to the AMERICAN CHEMICAL SOCIETY, so long as whichever organization is selected by the governing body of the Division at the time of dissolution shall be exempt under Section 501(c)(3) of the Internal Revenue Code of 1954 as amended or under such successor provision of the Code as may be in effect at the time of the Division's dissolution.



AGRO Division Membership Application

Chemistry for and from Agriculture

www.agrodiv.org



Please email or FAX this form to the American Chemical Society at service@acs.org or 614-447-3671. Email applications with credit card will be processed within 24 to 48 hours. For questions on your membership status, please call ACS at 800-333-9511.

ACS Member # (if applicable) _____ Today's Date: _____

Name: _____

Employer/Affiliation: _____

Address: _____

City, State, Zip: _____

Country, Postal Code: _____

Telephone: _____

E-mail: _____

Membership Categories (check one):

ACS member \$12 (add AGRO membership to existing ACS membership)

National Affiliate ACS member \$14 (add AGRO membership to existing National Affiliate ACS membership)

Student ACS member \$5 (Add AGRO membership to existing ACS student membership)

Non-ACS member \$14 (AGRO membership only, no ACS membership)

Please check one:

Bill Me Cash Check Visa/Master Card American Express

Name on Card: _____

Card number: _____

Expiration date: _____

CVV: _____



AGRO DIVISION
Chemistry *for and from* Agriculture
www.agrodiv.org

EMAIL NEWSLETTER

The AGRO publishes a monthly email newsletter designed to keep members informed about what is happening in our Division. Content will include calls for papers, announcements, awards opportunities, information on elections, career opportunities, new AGRO publications and other timely announcements. Previous issues can be found on the AGRO website.

If you are not currently receiving the newsletter, you can sign up on our webpage, www.agrodiv.org, by clicking on the button that says "Subscribe to our Newsletter."

Members can submit items to be included by the last Tuesday of the month to:

Yelena Sapozhnikova, PhD
USDA-ARS
215-233-6655
yelena.sapozhnikova@ars.usda.gov

You may unsubscribe at any time.

Each issue has an opt-out link where members can remove their email address from the list.

The AGRO email newsletter is open to all professionals who have an interest in agrochemicals and the AGRO Division. You do not have to be a division member to subscribe.

Companies who are interested in advertising in our email newsletter should send an email to Laura McConnell at laura.mcconnell@bayer.com.

The cost is \$50 per ad which includes a 120x120 pixel image with a weblink and subtitle if desired.

SUPPORT YOUR DIVISION!

ADVERTISE IN THE *PICOGRAM*

The *PICOGRAM* is published twice a year and is an important communications instrument of AGRO. It is mailed to nearly 1200 division members in the Spring and distributed to meeting attendees and mailed to members not attending in the Fall (~ 1500 distributed).

Ad costs

Full Page	16.5 cm x 22.9 cm 6.5" x 9"	\$500
Half Page	16.5 cm x 11.4 cm 6.5" x 4.5"	\$250

Full page ads must be submitted as press quality resolution, pdf format. Print bleed is desirable. If a color version is submitted for the on-line issue, this should not include print bleed. Half-page ads cannot be submitted as pdfs. Tiff or jpg at press quality resolution from professional graphics artist is preferred. Microsoft Office files in Word, Powerpoint, or Publisher may be submitted, but all images in the file must be high resolution grayscale.

Deadlines:

Spring Edition - December 1
Fall Edition - June 1

Submit ad copy via email to:

Laura L. McConnell, PhD
Bayer CropScience
919-549-2012
laura.mcconnell@bayer.com

Previous issues may be viewed on the AGRO website.

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