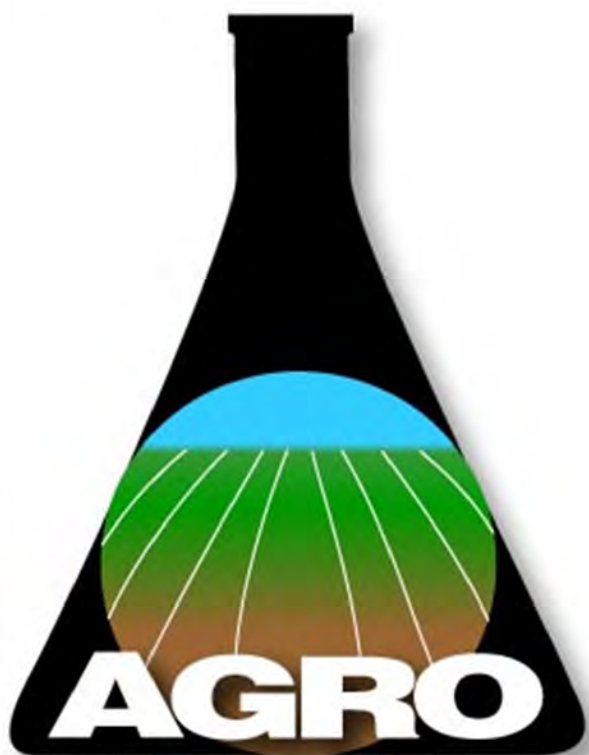


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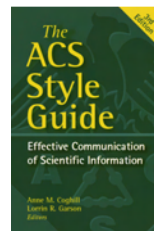
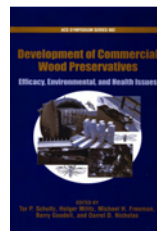
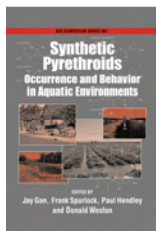
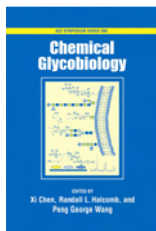
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From the Communications Chair

Communication within the AGRO membership has many forms. Oral and poster communications at meetings have been our foremost mode of communication, giving us time to share our research and investigate new scientific concepts. Over the last year we have explored workshops and a non-ACS meeting venue to communicate our science.

We also have the traditional printed *PICOGRAM* which provides letters from the Officers, Call for Papers, meeting notes and opportunities, and meeting schedules, maps, and abstracts. For faster communication, we have AG-LIST and a new electronic newsletter, *The Femtoqram*.

Last fall we launched the new and improved AGRO website with information on meetings, call for papers, award nominations, how to join AGRO, officer contact information, sponsorships, and electronic copies of the *PICOGRAM*. This site can be expanded to include membership login for blog and other information exchange forums.

Ideally, the Communications Committee would like to provide members with customized communications. Some members only want electronic documents while others prefer hard copy and electronic messages. At present, there is no reasonable method to exclude some from receiving hard copy of the *PICOGRAM*, but we are working on it. Social networks like Facebook and LinkedIn are the latest venues being used by some of our more electronically-savvy members.

Whatever form or venues you prefer, our goal is the same - to provide you with frequent up-to-date information about AGRO and our activities. Hope to see you at the DC meeting.

Cathleen Hapeman
PICOGRAM Editor



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Analytical Chemistry:	Method development and validation, ILV, clinical sample analysis, analysis of agrochemicals and metabolites in soil, water, air, crops and animal tissues.
Field Studies Design and Analytical Phase:	Terrestrial and aquatic dissipation, rotational crops, nature and magnitude of residues in crops, lysimetry and small plot dissipation studies utilizing radiolabels. Volatility and Flux determination.
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Good science, no surprises.

From the Chair's Desk

Kevin L. Armbrust

As anyone knows from watching the news (or checking out their 401(K)), the last 4-6 months have been extremely rocky from a financial standpoint. Our investment income within AGRO has not been immune to the downturn in the economy. Faced with declining assets in our investments due to market depreciation, the Executive Committee charged the officers at the business meeting in Philadelphia to establish a task force to evaluate the AGRO finances and make recommendations for spending guidelines.

The guidelines recommended by the task force include measures that should result in savings to the Division, yet should be transparent to the majority of the membership. All expectations are that the market should recover over the next year or so. AGRO is fortunate to have a large financial base compared to other divisions. We intend to post these recommendations as well as the current financial information on the new AGRO website at www.agrodiv.org.

On a brighter note, *our strategic planning efforts appear to be taking hold and we need to continue striving ahead and expanding upon these efforts.* We have a number of great things going on in the Division!

- We have a **great fall program** planned. It's almost twice the size of the program in Philadelphia and has the potential to be one of our biggest meetings ever.
- We have a **new attractive website** (note new address above) funded by the first of two ACS innovative grants the AGRO Division received this year. Laura McConnell, Cathleen Hapeman, and John Johnston have worked long and hard on this. Please take a moment to visit it and let us know what you think.
- The **second innovative grant** under the leadership of Jason Sandahl and Chris Peterson supports AGRO's efforts to collaborate with a variety of external organizations (domestic and international), to address critical agricultural trade hurdles regarding agrochemicals.

- A number of **international efforts** are planned including AGRO's participation in GARP in Brazil this fall and in IUPAC in the summer of 2010.
- Recently, **Bayer CropScience made a very generous contribution** to the Division of \$25,000 (\$5,000 per year for five years) to support graduate student posters and awards.
- Our **membership is up!** Definitely a good sign.

Looking forward, we are now into the second year of our three year experiment of programming at one national meeting a year and we are going to have to make some big decisions as a division over the next six months. In Philadelphia, the executive committee voted to **program in the spring of 2010 in San Francisco, skipping Boston in the fall.** What to do to after that is the question. The spring meeting in 2011 is in Anaheim and the fall meeting is in Denver. I have heard suggestions for Denver; however that will be a year and a half without programming at a national meeting. My personal feeling is that this is too long, but everyone should be thinking about this and discuss it with the officers or executive committee members. We also need to be thinking about whether we should continue with one meeting a year or move back to programming at two meetings per year.

While these are challenging times, we are fortunate that AGRO has a number of positive things going: a firm financial base, a membership that is growing and dedicated to the future success of the division, interest from outside organizations in conducting joint symposia as evidenced by both SETAC this past fall and IUPAC, and innovative programs.

Thanks to all who have contributed to making our Division a success now and for laying the groundwork for success into the future.

Kevin Armbrust



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Awards Committee Report

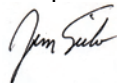
Dr. Allan Felsot received the AGRO Fellow Award at the Fall 2008 ACS National Meeting in Philadelphia, Pennsylvania for his contributions to agrochemical science and the AGRO Division. His contribution can be found on page 7. **Dr. R. Donald Wauchope**, USDA-ARS (retired), will receive the International Award for Research in Agrochemicals at the Fall 2009 ACS National Meeting in Washington, DC for his contributions in agrochemical fate and transport and the physical and chemical properties that influence these processes. DuPont Crop Protection and BASF Company will co-sponsor the award. A committee led by Dr. Allan Felsot is organizing an award symposium.

The Awards Committee is accepting new award nominations for the Division Fellow Award. Criteria for the award and what to submit are shown below. Nominations for the 2010 International Award for Research in Agrochemicals

are currently being evaluated by the Awards Committee. The nomination form and criteria for the 2011 award can be found on page 9. Please consider nominating a deserving colleague. The deadlines each year are May 31 for the Fellow Award and December 31 for the International Award. The 2009 Sterling Hendricks Lectureship Award, which is sponsored by USDA-ARS will be hosted by AGRO. The winner will be announced shortly. Nominations for the 2010 award are being solicited by ARS. The nomination form can be found on page 11.

Congratulations to Drs. Felsot and Wauchope.

Respectfully submitted,



James N. Seiber, Chair
Awards Committee



CALL FOR NOMINATIONS AGRO Division Fellow Award

The AGRO Division has established the **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 agrochemical science over a period of at least six years.

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

Dr. James Seiber, Chair
Food Science Department
University of California
One Shields Avenue
Davis, CA 95616-8598
530-752-1465 – phone
jseiber@ucdavis.edu

PAST WINNERS OF THE AGRO DIVISION FELLOW AWARD

1971	Dr. Louis Lykken Dr. Tom H. (Bucky) Harris Dr. Herman Beckman (Posthumous)	1985	Mr. Henry Dishburger Dr. Richard C. Honeycutt
1972	Mr. Wendell F. (Bud) Phillips Dr. Don G. Crosby Dr. Elvins Y. Spencer	1986	Dr. Gunter (Jack) Zweig
1973	Mr. Roger C. Blinn Dr. Philip C. Kearney Dr. Julius J. Menn	1987	Dr. Willa Garner
1974	Dr. Morton Beroza Dr. James P. Minyard, Jr. Dr. Joe C. Street	1988	Dr. Jan Chambers Dr. James Seiber
1975	Dr. Hank F. Enos Dr. Maurice B. Green Dr. Charles H. Van Middeltem	1990	Dr. Joseph Fenyes
1976	Dr. Marguerite L. Leng Dr. Jack R. Plimmer Dr. Gerald G. Still	1991	Dr. Nancy N. Ragsdale
1977	Dr. Gustave K. (Bob) Kohn	1992	Dr. Don Baker Dr. Joel Coats Dr. Guy Paulson
1978	Dr. S. Kris Bandal Dr. Paul Hedin	1993	Dr. Larry Ballantine
1979	Dr. Rodney D. Moss	1994	Dr. James Heitz Dr. Ralph Mumma Dr. Willis Wheeler
1980	Dr. G. Wayne Ivie Dr. John B. Siddall (Posthumous)	1996	Dr. John Bourke
1981	Dr. Robert M. Hollingsworth Dr. Gino J. Marco	1998	Dr. Hank Cutler Mr. Paul Giesler
1983	Dr. John Harvey, Jr.	2000	Dr. Barry Cross
		2001	Dr. Robert Hoagland
		2003	Dr. Judd O. Nelson
		2005	Dr. Rodney Bennett
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		2008	Dr. Allan S. Felsot



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2008 AGRO DIVISION FELLOW AWARD

For Outstanding Contributions to the Endeavors of the
AGRO Division and to the Science of Pesticide Chemistry

*Presented to
Dr. Allan S. Felsot*



Dr. Allan Felsot is a Professor in the Department of Entomology at Washington State University. He is an outspoken member of the AGRO Division and can be frequently found leading the charge for creative thought and

innovative approaches. He has served as a mentor to many in the agricultural and environmental sciences and in toxicology.

Dr. Felsot holds a joint research, teaching, and extension service appointment as a specialist in environmental chemistry and toxicology. He is presently stationed at the WSU Food and Environmental Quality Lab in Richland, WA. He obtained a B.S. in biology from Tulane University (1972), an M.S. in Entomology (Insect Physiology) from the University of Florida (1974), and a Ph.D. in Entomology (Pesticide Chemistry) from Iowa State University (1978). Prior to employment at WSU, he was a project leader for pesticide chemistry and toxicology research in the Illinois Natural History Survey at the University of Illinois in Champagne-Urbana.

Dr. Felsot is a member of the Washington State Pesticide Incident Reporting and Tracking Panel (PIRT) and holds the public toxicologist position on the WSDA Pesticide Advisory Board. He is also a member of the editorial board for the *Journal of Environmental Science and Health Part B*.

In addition to his broad scholarship interests in many areas of agrochemical technology, Dr. Felsot has responsibility for teaching a variety of courses at Washington State University, including Fundamental & Applied Environmental Toxicology, Agricultural Entomology, Biotechnology & the Environment, and Biology and Society.

Dr. Felsot was awarded with the 2008 Entomological Society of America Founders Memorial Award, and in the Society's plenary lecture honored Dr. Robert L. Metcalf, recipient of the 1971 ACS Division of Agrochemicals Burdick & Jackson International Award. Dr. Felsot is also the recipient of the 2001 WSU College of Agriculture Award for Excellence in Extension and the 1999 North Star Award from the Western Crop Protection Association. He is an honorary member of the WA State Weed Association and a Fulbright Scholar.

Dr. Felsot served as Vice Chair, Program Chair, and Chair of the American Chemical Society's Division of Agrochemicals from 2003-2005. From 1995-2007, he chaired the AGRO Young Scientist Research Recognition Award & Symposium. He has been co-author of three ACS Symposium Books based on symposia he has organized for the Division. He and his wife, Judy Ruppert, maintained the AGRO website for several years. Dr. Felsot continues to be an active member of the Division and has assumed responsibilities for organizing the New Investigator Award initiated at the 2008 annual meeting.

Congratulations Allan!

PAST AWARDEES OF THE BURDICK AND JACKSON INTERNATIONAL AWARD

1969	Dr. John E. Casida, University of California, Berkley	1981	Dr. Philip C. Kearney, USDA-ARS, Beltsville, Maryland
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1971	Dr. Robert L. Metcalf, University of Illinois	1983	Dr. Karl Heinz Buechel, Bayer AG, Germany
1972	Dr. Ralph L. Wain, Wye College, University of London, England	1984	Dr. Jacques Jean Martel, Roussel Uclaf, Paris
1973	Dr. Hubert Martin, British Crop Protection Council, England	1985	Dr. Junshi Miyamoto, Sumitomo Chemical Co., Japan
1974	Dr. T. Roy Fukuto, University of California, Riverside	1986	Dr. James Tumlinson, USDA-ARS, Gainesville, Florida
1975	Dr. Michael Elliot, Rothamsted Experiment Station, England	1987	Dr. Fumio Matsumura, Michigan State University
1976	Dr. Morton Beroza, USDA-ARS (retired)	1988	Dr. Ernest Hodgson, North Carolina State University
1977	Dr. Francis A. Gunther, University of California, Riverside	1989	Dr. Toshio Narahashi, Northwestern University
1978	Dr. Julius J. Menn, Stauffer Chemical	1990	Dr. David Schooley, University of Nevada, Reno
1979	Mr. Milton S. Schechter, USDA (retired)	1991	Dr. Stuart Frear, USDA-ARS, Fargo, North Dakota
1980	Dr. Minuro Nakajima, Kyoto University, Kyoto, Japan		

PAST WINNERS OF THE ACS INTERNATIONAL AWARD FOR RESEARCH IN AGROCHEMICALS

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1992-F	Dr. Bruce Hammock, University of California, Davis	2001-S	Dr. Donald Crosby, University of California, Davis
1993-S	Dr. Morifuso Eto, Kyushu University, Fuoka, Japan	2001-F	Dr. Ralph Mumma, Pennsylvania State University
1994-F	Dr. Toshio Fujita, Kyoto University, Kyoto, Japan	2002-S	Dr. Keith Solomon, University of Guelph, Ontario, Canada
1995-S	Dr. Mohyee Eldefrawi, University of Maryland, Baltimore	2002-F	Dr. Marinus Los, American Cyanamid
1995-F	Dr. Koji Nakanishi, Columbia University, New York	2003-S	Dr. Bob Hollingworth, Michigan State University
1996-S	Dr. Günther Voss, Ciba, Basel, Switzerland	2003-F	Dr. Hideo Ohkawa, Kobe University, Japan
1996-F	Dr. Klaus Naumann, Bayer, Leverkusen, Germany	2004-S	Dr. Stephen Duke, USDA-ARS, Oxford, Mississippi
1997-S	Dr. Fritz Führ, Jülich, Germany	2004-F	Dr. John Marshall Clark, University of Massachusetts
1997-F	Dr. Izuru Yamamoto, University of Tokyo, Japan	2005-S	Dr. Robert Krieger, University of California, Riverside
1998-S	Dr. George Levitt, DuPont, Wilmington, DE	2005-F	Dr. Janice E. Chambers, Mississippi State University
1998-F	Dr. Leslie Crombie, University of Nottingham, England	2006-S	Dr. Joel Coats, Iowa State University
1999-S	Dr. Don Baker, Zeneca, Richmond, CA	2006-F	Dr. Isamu Yamaguchi, Agricultural Chemicals Inspection Station, Tokyo Japan
1999-F	Dr. James Seiber, University of Nevada, Reno	2007-S	Dr. Gerald T. Brooks, West Sussex, UK
2000-S	Dr. George P. Georghiou, University of California, Riverside	2007-F	Dr. Frederick J. Perlak, Monsanto Company, Chesterfield, MO
2000-F	Dr. Herbert B. Scher, Zeneca	2008	Dr. David M. Soderlund, Cornell University



CALL FOR NOMINATIONS ACS INTERNATIONAL AWARD FOR RESEARCH IN AGROCHEMICALS

Co-Sponsored by BASF Corporation & DuPont Crop Protection

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.
- Please provide 11 copies.

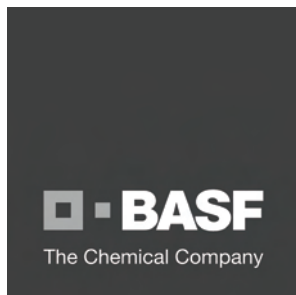
Deadline: Nominations should be received by the committee chair by ***December 31*** of each year. Balloting will be conducted in January/February and results will be announced in the spring of the following year.

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

Please, return this completed form to:

Dr. James Seiber, Chair
Food Science Department
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| 1982 | Warren L. Butler, Professor of Biology and Past Chairman, Biology Department, University of California at San Diego | 1996 | Hugh D. Sisler, Professor Emeritus, Department of Plant Biology, University of Maryland |
| 1983 | Melvin Calvin, Nobel Laureate and University Professor of Chemistry, University of California at Berkeley | 1997 | Ernest Hodgson, Head, Department of Toxicology, North Carolina State University |
| 1984 | Frederick Ausubel, Professor of Genetics, Harvard Medical School and Massachusetts General Hospital | 1998 | Martin Beroza, Chief, Organic Chemicals Synthesis Laboratory, Agricultural Research Service |
| 1985 | Alan Putnam, Professor, Department of Horticulture and Pesticide Research Center, Michigan State University | 1999 | Bruce D. Hammock, Professor, Department of Entomology, University of California at Davis |
| 1986 | Ralph Hardy, President, Boyce Thompson Institute for Plant Sciences, Cornell University, and Deputy Chairman, BioTechnica International | 2000 | William S. Bowers, Professor, Department of Entomology and Chemical Ecology, University of Arizona |
| 1987 | Mary-Dell Chilton, Director of Biotechnology Research for Ciba-Geigy Corporation, Research Triangle Park, North Carolina | 2001 | Malcolm Thompson, Research Chemist, USDA-ARS, Beltsville, Maryland (retired) |
| 1988 | Bruce N. Ames, Chairman, Department of Biochemistry, University of California at Berkeley | 2002 | Ervin E. Leiner, Professor Emeritus, Biochemistry Department, University of Minnesota |
| 1989 | Sanford A. Miller, University of Texas Health Science Center at San Antonio | 2003 | Dr. Kriton Kleanthis Hatzios, VA Agricultural Experiment Station |
| 1990 | Roy L. Whistler, Emeritus Professor, Purdue University | 2004 | Dr. Robert L. Buchanan, Food & Drug Administration |
| 1991 | Peter S. Eagleson, Professor of Civil Engineering, Massachusetts Institute of Technology | 2005 | Dr. Donald Sparks, University of Delaware |
| 1992 | John E. Casida, Professor of Chemistry and Toxicology, University of California at Berkeley | 2006 | Dr. Stanley B. Prusiner, Institute for Neurodegenerative Diseases, University of California, San Francisco |
| 1993 | Philip H. Abelson, Deputy Editor, <i>Science</i> , and Scientific Advisor to AAAS | 2007 | Dr. Bruce E. Dale, Department of Chemical Engineering & Materials Science, Michigan State University |
| 1994 | Wendell L. Roelofs, Liberty Hyde Bailey Professor of Insect Biochemistry, Cornell University | 2008 | Fergus M. Clydesdale, Department of Food Science, University of Massachusetts, Amherst |



Sterling B. Hendricks Memorial Lectureship Award CALL FOR NOMINATIONS

Co-Sponsored by the AGRO & AGFD Divisions



The USDA-Agricultural Research Service (ARS) is seeking nominations for the 2010 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. Dr. 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. Deadline is **November 4, 2009**.

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, universities, consulting, or government positions. *Current ARS employees are not eligible.* The Award will be presented during an American Chemical Society National Meeting held in 2010 prior to the Lecture. Giving the presentation is a requirement of the honor.

A **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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Agricultural Research Service
www.ars.usda.gov

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Switzerland

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+44 23 92 518130 (Havant, UK)



CALL FOR NOMINATIONS AGRO NEW INVESTIGATOR AWARD

Sponsored by Dow AgroSciences

The AGRO Division seeks nominations for the New Investigator Award to be awarded at the ACS meeting in Washington, DC in August 2009. 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.). Studies of veterinary pharmaceuticals and antibiotics are included in the Division's mission.

AGRO is also interested in chemical products made from agricultural commodities and byproducts including biofuels and the issues surrounding production. 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. The Division especially encourages submissions related to public health protection as well as crop, livestock, aquaculture, and wildlife protection.

- *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 meetings. Thus, for 2009, applications will be considered from scientists who have obtained their doctorates no earlier than the year 2004.*
- The award winner will be expected to deliver an oral presentation in their area of interest in one of the AGRO Program sessions.
- The award winner will receive a \$1000 honorarium, a commemorative plaque, one-year complementary membership in the AGRO Division, a meeting registration fee waiver, and reimbursement for travel expenses in association with the DC meeting.

Applications for the New Investigator Award will consist of the following elements:

1. Submission of a maximum **five-page paper describing the area of research** or other work relevant to the broad mission of the AGRO Division. The paper may be structured as a research paper (i.e., contains the main elements of a typical journal article) or as a critical review of one's particular contributions to the scientific fields covered by the AGRO Division.
2. Submission of a **150 word abstract** for the submitted paper.
3. Submission of at least **one letter of recommendation** from a current supervisory scientist (e.g., a business manager, a departmental chair, etc.)
4. Both the paper and letter of recommendation should be **submitted no later than February 20, 2009** to Dr. Allan Felsot via email, afelsot@tricity.wsu.edu, for consideration of an award at the Fall meetings in Washington, DC.

Special thanks to our sponsor for their generous contribution!





James Mutunga hails from Machakos, a district in the eastern part of Kenya, near Nairobi. He has been pursuing a PhD in Entomology since spring of 2007 with Dr. Jeff Bloomquist at Virginia Tech. His research involves

the use of molecular modeling and biochemical tools to screen for anticholinesterases that are highly selective on mosquitoes and less toxic to humans. The availability of both the human and *Anopheles gambiae* genomes allows the use of innovative technology in chemical design and synthesis, coupled to advanced molecular biology and biochemical tools to exploit new insights into insecticide design. Such improved chemicals will provide a significant contribution to disease vector control and help ease the disease burden posed by vector borne diseases, especially malaria. James obtained his BSc and MSc in Biochemistry in 2000 and 2005, respectfully, from the Jomo-Kenyatta University of Agriculture and Technology. For his thesis research he conducted a survey of insecticide resistance genes in mosquito populations.



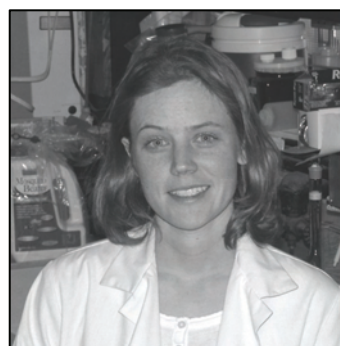
Joseph Strycharz is a master's student with Dr. John M. Clark at the University of Massachusetts at Amherst in the Animal Biotechnology and Biomedical Sciences program. His

research focused on determining resistance mechanisms in a highly DDT-resistant strain of *Drosophila melanogaster*. He plans to pursue a doctorate with Dr. Clark researching human lice where he will focus on testing the effectiveness of new head lice formulations and has recently been working on an ivermectin formulation. He will also be examining the mode of action in head lice and potential resistance mechanisms. Joseph received his bachelor's degree in Environmental Science with a toxicology concentration from University of Massachusetts in 2004.



Divina Angela Navarro is a graduate student with Dr. Diana Aga at the Chemistry Department of the University at Buffalo, The State University of New York, working towards her Ph.D. in Analytical Chemistry. Her research focuses

on the fate and transport of some known and emerging pollutants, such as the veterinary pharmaceuticals tylosin and erythromycin. These compounds have found their way into the environment primarily because of their increased usage in concentrated animal feeding operations and land application of manure as fertilizers. Ultimately, Angela's goal is to characterize the behavior of these pollutants as they partition between different environmental matrices to understand better their solubility, leaching potential, and biodegradability. These types of studies are necessary in determining the extent of a chemical's human and ecological exposure and the risk it poses.



Gretchen Paluch is finishing her PhD in Entomology and Toxicology with Dr. Joel Coats at Iowa State University. The focus of her dissertation work includes examination of the activity of a novel class of

botanical insect repellents, and development of new approaches to evaluate mechanisms of repellency and toxicity by modeling insect behavior. U.S. and International patent applications concerning this technology have been filed by the Iowa State University Research Foundation. Gretchen first conducted research on botanicals during a summer internship with Dr. Coats. Her project focused on the seasonal ecology of the nepetalactone isomers within the catnip plant, *Nepeta cataria*, which had been previously identified as the active components of the catnip essential oil against cockroaches and the maize weevil. Her M.S. project also with Dr. Coats considered trends in elm foliar chemistry, aimed toward the development of hybrids with reduced susceptibility to insect injury.



2008 AGRO EDUCATION AWARDS FOR GRADUATE STUDENT TRAVEL

Sponsored by Bayer CropScience

Agricultural chemistry student research was well represented at the Fall 2008 ACS meeting in Philadelphia. AGRO division awarded 21 travel grants to university students representing 13 universities. The students prepared and presented research posters on a wide range of analytes that included plant nutrients, insecticides, repellents and veterinary drugs. Once again the quality of the presentations was excellent, making the judging of the posters

extremely difficult. The winners were announced at the AGRO Social on Tuesday during the meeting.

Students interested in participating in the 2009 AGRO student research poster competition at the ACS National Meeting, August 16 – 20, 2009, in Washington, DC should see the announcement on page 17. Applications are to be submitted by March 16, 2009.

2008 Graduate Student Research Poster Competition Winners



Winners (l to r): A. Al-Tanni, J. Strycharz, G. Paluch, D. Navarro, J. Mutunga

First place – James Mutunga of Virginia Tech: *Differential potency of bivalent anticholinesterases as a model for the molecular design of selective insecticides*

Second place – Joseph Strycharz of University of Massachusetts: *Polygenic resistance in the highly DDT-resistant 91-R strain of *Drosophila melanogaster* increased metabolism, and rapid excretion*

Third place – Ahmed Al-Tanni of University of Nevada: *Thermal fixation of atmospheric nitrogen to nitrate on titanium dioxide and desert soil* (bio not available at press time)

Honorable Mention – Gretchen Paluch of Iowa State University: *Repellency of botanical sesquiterpenoids to arthropods*

Honorable Mention – Divina Angela Navarro of State University of New York: *Determination of the effect of pH, ionic strength, and humic acid on the soil sorption coefficients (K_d) of tylosin and erythromycin antibiotics*

Congratulations to all our winners!



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CALL FOR APPLICANTS AGRO Education Awards

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UNDERGRADUATE & GRADUATE STUDENT RESEARCH SUPPORT FOR POSTER PRESENTATIONS AT THE 2009 FALL MEETING IN WASHINGTON, DC

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

Proposals are sought for the 2009 awards. Undergraduate and graduate students will be awarded up to \$600 each to help defray costs of attendance to give poster presentations at the ACS 2009 Fall Meeting, which will be held August 16 – 20, 2009 in Washington, DC. Posters will be displayed in a special poster session of the ACS Division of Agrochemicals. First, Second and Third place winners 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, biotechnology, delivery, risk assessment, resistance, residues, mode of action, 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 production.

To apply, a graduate student should submit the following to be received no later than MARCH 16, 2009 (OASYS Deadline):

1. An abstract formatted according to the directions given on the ACS website. Be sure to include name (of applicant), address, and e-mail address.
2. A two page extended abstract giving more detail of the research/presentation.
3. A short letter of nomination from the faculty advisor.

Submit items 1 and 2 to the ACS OASYS abstract submission website.
<http://oasys.acs.org/>

Submit item 3 as a Word or pdf file to
Dr. John Johnston at
john.johnston@fsis.usda.gov

Direct questions to:
Dr. John J. Johnston
USDA-FSIS
2150 Centre Ave.
Building D, Suite 320
Fort Collins, CO 80526
202-365-7175

*Abstracts will be reviewed by the Education Committee.
Submitters will be notified of their selection status in May 2009*

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Notes from the Program Chair

Ellen L. Arthur

The AGRO Division is putting together a very strong program for the 238th National American Chemical Society meeting to be held in Washington DC in August. The program will be one of AGRO's largest, as there are currently twenty-five symposia being organized for this meeting. The success of the program is completely due to a very engaged, dedicated, and creative membership, and I would like to thank all of you who have put so much time and effort into making our Division so strong. A program chair's job is made easy by all the work and planning that has taken place in years prior. AGRO is very fortunate to have such a substantial critical mass of individuals who are willing to organize symposia and rally speakers to attend our meetings to present very interesting, timely, and important research topics.

The theme for the Washington DC meeting is Global Security: Challenges and Opportunities, and within the AGRO programming there are symposia that fit that theme. Among those are symposia entitled: Biotechnology Risk Assessment: Minding and Managing the Threats around Us and Advances in Biofuels and Bioproducts: Life Cycle Analysis and Sustainability.

A featured symposium being organized for Washington DC will highlight agricultural research topics critical to Australia and will give a preview of exciting programming that will take place at the 12th IUPAC International Congress on Pesticide Chemistry in Melbourne, Australia, July 4-8, 2010.

Washington DC will be a perfect venue for symposia on government collaborations in research, regulatory & other areas and on the topics of non-dietary human exposure and risk assessment, chemical exposure in the urban environment, as well as on the challenges and initiatives associated with harmonizing maximum residue levels across the world. Additionally, a symposium is being organized in

memory of Lawrence A. Burns who was an eminent ecologist at EPA responsible for developing the EXAMS model, a standard still used for modeling aquatic fate and transport. This symposium will focus on advances in environmental modeling of pesticides.

The AGRO program will also include symposia on advancements in geospatial risk assessments and techniques, managing agricultural gas and particle emissions, insect management in medical, veterinary, and urban settings, as well as, recent developments in invertebrate and vertebrate repellents. Additionally, the program will contain symposia focused on agrochemical residue and metabolism chemistry, monitoring and modeling atrazine ecological exposure potential, pesticide soil-bound residue and potential impacts, organic phosphate fate and transport, application of natural products in organic farming, the production of safe and nutritious food with catfish aquaculture and other issues in agrochemical sciences.

Four awards symposia are included in the program. The Sterling B. Hendricks lecture will be hosted by AGRO and co-sponsored by the Agricultural and Food Chemistry Division. The International Award for Research in Agrochemicals symposium will honor Dr. Donald Wauchope as this year's recipient. The AGRO Awards symposium for New Investigator is also being planned, and once again the research of graduate and undergraduate students who received AGRO Education Awards for travel to this meeting will be featured in a poster session.

Again I would like to thank all of the symposia organizers and the AGRO members for their efforts and contributions to this very strong program. This is no minor feat, and I appreciate all the time spent on these activities, knowing that this time is above and beyond what we all do for a living. I believe that our membership is among the best of the best, and I am very pleased to be a part of this Division.

AGRO Program Committee Report

The Program Committee is made up of the Division Officers, Executive Committee members, Standing members, Volunteer members, and a Long Range Program Coordinator to keep a continuous record of past and future programming. Some names are listed twice as they are serving in more than one category. If you have an interest in serving as a volunteer member of this committee, or if you would like more information on participating in AGRO programming, please contact Ellen Arthur, Joe Massey, or one of the division officers.

A list of standing topic areas was established which reflects better the broader areas of agricultural research being addressed by AGRO. These topics will be part of each AGRO program along with our normal awards, programming, and symposia to address ACS themes for each meeting and special topics of emerging or continuing interest.

If you have additional ideas for standing topics or programming that you would like to see included in AGRO, please contact one of the division officers.

AGRO Program Committee			
Joseph Massey, 2006 – 2010 Long Range Program Coordinator		jmassey@pss.msstate.edu	
Division & Subdivision Officers			
Kevin Armbrust	Division Chair	armbrust@mscl.msstate.edu	
Ellen Arthur	Program Chair	ellen.arthur@bayercropscience.com	
Ken Racke	Vice Chair	kracke@dow.com	
Bill Hall	Chair, FERT Subdivision	bill.hall@mosaicco.com	
Terry Spittler	Treasurer	tds2@cornell.edu	
Liliana Schwartz	Secretary	liliana.schwartz@usa.dupont.com	
John Johnston	Immediate Past Chair	john.johnston@fsis.usda.gov	
Barry Cross	Councilor	barry.cross@worldnet.att.net	
Standing Members			
Jim Seiber	Awards Committee Chair	jnseiber@ucdavis.edu	
Allan Felsot	New Investigator Award Chair	afelsot@tricity.wsu.edu	
John Johnston	Education Award Committee Chair	john.johnston@fsis.usda.gov	
John Clark	Special Conferences Chair	jclark@vasci.umass.edu	
Cathleen Hapeman	Communications Committee Chair	cathleen.hapeman@ars.usda.gov	
Jason Sandahl	International Outreach Chair	jason.sandahl@fas.usda.gov	
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Ken Racke	kracke@dow.com		
Volunteer Members			
Laura McConnell	laura.mcconnell@ars.usda.gov	Steven A. Ripp	saripp@utk.edu

Planned AGRO Programming & Outreach Activities 2009 – 2011

Activity/Event	Leader(s)	Status	Actions Required
2nd Latin American Pesticide Residue Workshop. Food and Environment June 8-11, 2009 Santa Fe, Argentina	Steve Lehotay – AGRO contact	<ul style="list-style-type: none"> Visit website for more information www.laprw2009.unl.edu.ar 	<ul style="list-style-type: none"> Submit papers now
46th Annual Florida Pesticide Residue Workshop July 19 – 22, 2009 St. Pete Beach, Florida	Steve Lehotay – AGRO contact	<ul style="list-style-type: none"> Visit website for more information www.FLworkshop.com 	<ul style="list-style-type: none"> Submit papers now
238 th ACS National Meeting August 16-20, 2009 Washington, DC	Ellen Arthur	<ul style="list-style-type: none"> Call for Papers in PICOGRAM 76 	<ul style="list-style-type: none"> Submit papers now oasys.acs.org Deadline is March 16, 2009
3rd International Workshop on Crop Protection Chemistry in Latin America: Environment, Safety and Regulation November 9-12, 2009 Rio de Janeiro, Brazil	Laura McConnell Ken Racke Irene Baptista de Alleluia	<ul style="list-style-type: none"> Organization of speakers and meeting underway 	<ul style="list-style-type: none"> Visit website for more information www.iupacrio2009.org
Activities beyond 2009			
239 th ACS National Meeting March 21-25, 2010 San Francisco, California	Ken Racke	<ul style="list-style-type: none"> Call for Symposia & Papers TBA in PICOGRAM vols. 77 & 78 	<ul style="list-style-type: none"> Decide in 2010 if AGRO is returning to 2 national meetings per year
IUPAC Pesticide Congress Summer 2010 Melbourne, Australia	Don Wauchope Hisashi Miyagawa	<ul style="list-style-type: none"> Program development underway Many AGRO members are serving on technical program committees 	<ul style="list-style-type: none"> Visit website for more information www.iupacipc2010.org
Pacificchem 2010 Honolulu, Hawaii December 15- 20, 2010	John Johnston	<ul style="list-style-type: none"> Two symposia are being considered 	<ul style="list-style-type: none"> Visit website for more information www.pacificchem.org
241 st ACS National Meeting March 27-31, 2011 Anaheim, California	2010 Vice Chair		
242 nd ACS National Meeting August 28-September 1, 2011 Denver, Colorado	2010 Vice Chair		

Standing Programming

- Environmental Fate, Transport, Risk Assessment and Modeling of Agriculturally-Related Chemicals
- Technological Advances and Applications in Agricultural Science: Nanotechnology, Genetically Modified Organisms, and Biocontrol Agents
- Development of Value-Added Products from Agricultural Crops and Byproducts
- Bioenergy and Biofuels from Agriculture
- Natural Products, Pheromones, and Chemical Signaling in Agriculture
- Synthesis of Bioactive Compounds
- Human and Animal Health Protection: Veterinary Pharmaceuticals, Antimicrobials, Worker Protection Products
- Advances in Agrochemical Residue and Metabolism Chemistry
- Urban Agriculture – Turf, Ornamentals, Household Products, and Water Re-Use
- Developments in Integrated Pest Management and Resistance Management
- Soil and Nutrient Management for Sustainable Agriculture
- Agrochemical Toxicology and Mode of Action
- Residue and Metabolism Chemistry



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For further information contact:
David M. Whitacre, Editor
phone/fax 336-643-2131
dmwhitacre@triad.rr.com



Announcements & Symposia

238th ACS National Meeting & Exposition

August 16 – 20, 2009

Washington, DC

Award Symposia

ACS International Award for Research in Agrochemicals Symposium for R. Donald Wauchope

Allan Felsot, Washington State University, 509-372-7365, afelsot@tricity.wsu.edu

Sterling B. Hendricks Memorial Lectureship

Jim Seiber, USDA-ARS, 510-559-5600, james.seiber@ars.usda.gov

AGRO New Investigator Award

Allan Felsot, Washington State University, 509-372-7365, afelsot@tricity.wsu.edu

AGRO Education Awards for Undergraduate and Graduate Student Travel: Research Poster Presentations

John Johnston, USDA-FSIS, 202-365-7175, John.Johnston@fsis.usda.gov

Special Events

Research Poster Competition!

The top three AGRO posters will be awarded Amazon.com gift certificates; all posters not in the student competition are eligible; at least one author must be present

Ellen Arthur, Bayer CropScience, 913-433-5328, ellen.arthur@bayercropscience.com

AGRO Social

Ellen Arthur, Bayer CropScience, 913-433-5328, ellen.arthur@bayercropscience.com

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WELCOME TO AGRO

Chemistry for and from Agriculture

AGRO is a division of the American Chemical Society. Its purpose is to promote knowledge benefiting society through advancements in agricultural public health, and environmental science and technologies.

Announcements

- The AGRO Call for Papers for the 238th ACS National Meeting and Exposition in Washington DC, August 16–20, 2009 is now available. Abstract submission begins January 19th and ends March 16th, 2009 at oasys.acs.org
- New issue of Femtogram is now available.
- Applications for the 2009 AGRO Student Travel Grants, co-sponsored by Bayer CropScience are now being accepted for the ACS Fall National Meeting in Washington. Applications are due by March 16th, 2009.
- Applications for the 2009 AGRO New Investigators Award, co-sponsored by Dow AgroSciences are now being accepted for the Fall National Meeting in Washington. Nominations are due by February 20th, 2009.
- AGRO has received \$12,500 in funding for two proposals submitted to the 2008 ACS Innovative Grants Program. The first project will support development of our new web presence, and the second will be used to introduce AGRO as a global entity for

Upcoming Events

- Jun 8–11, 2009 – 2nd Latin American Pesticide Residue Workshop
- July 19–22, 2009 – Florida Pesticide Residue Workshop
- Aug 16–20, 2009 – 238th ACS National Meeting and Exposition, Washington, DC
- Nov 9–12, 2009 – 3rd International Workshop on Crop Protection Chemistry in Latin America
- Mar 21–25, 2010 – 239th ACS National Meeting & Exposition, San Francisco, CA



Announcements & Symposia

238th ACS National Meeting & Exposition

August 16 – 20, 2009

Washington, DC

Special Symposia

Lawrence A. Burns Memorial Symposium on Advances in Environmental Modeling of Pesticides

Tharacad Ramanarayanan, Bayer CropScience, 913-433-5489, Tharacad.

Ramanarayanan@bayercropscience.com,
Ronald Parker, USEPA-OPP, 703-305-5505,
Parker.Ronald@epa.gov

Agricultural Research in Australia: Critical Issues Leading up to the 12th IUPAC International Congress on Pesticide Chemistry in Melbourne 2010

Ron Hill, CSIRO Molecular and Health Technologies, 61 2 9490 5076, ron.hill@csiro.au

Laura McConnell, USDA-ARS, 301-504-6298, laura.mcconnell@ars.usda.gov

Ken Racke, Dow AgroSciences, 1 317 337 4654, kracke@dow.com

Greg Simpson, CSIRO NMF/FS, 61 3 9545 2049, greg.simpson@csiro.au

Symposia for Solicited & Invited Papers

Advances in Biofuels and Bioproducts: Life Cycle Analysis and Sustainability

Cathleen Hapeman, USDA-ARS, 301-504-6451, cathleen.hapeman@ars.usda.gov

Joe Massey, Mississippi State University, 662-325-4725, jmassey@pss.msstate.edu

James Seiber, University of California – Davis 530-752-1465, jnseiber@ucdavis.edu

Liliana Schwartz, DuPont Crop Protection, 302-999-4078, liliana.schwartz@usa.dupont.com

Terry Spittler, Cornell, 315-787-2283, tds2@cornell.edu

Advancements in Geospatial Risk Assessment and Techniques

Gerco Hoogeweg, Waterborne Environmental, Inc., 703-777-0005, hoogewegg@waterborne-env.com

Agrochemical Residue and Metabolism Chemistry

Teresa A. Wehner, Merial, Ltd., 732-729-5713, teresa.wehner@merial.com

David J. Smith, USDA-ARS, 701-239-1238, david.j.smith@ars.usda.gov

John J. Johnston, USDA-FSIS, 202-365-7175, John.Johnston@fsis.usda.gov

Application of Natural Products in Organic Farming

Kamlesh Chauhan, USDA-ARS, 301-504-5166; kamal.chauhan@ars.usda.gov

Stephen Duke, USDA-ARS, 662-915-1036; stephen.duke@ars.usda.gov

Biotechnology/Nanotechnology Risk Assessment: Minding and Managing the Threats around Us

Steven Ripp, 865-974-8080, saripp@utk.edu

Catfish Aquaculture: Producing a Safe, Delicious and Nutritious Food for Consumers

John J. Johnston, USDA-FSIS, 202-365-7175, John.Johnston@fsis.usda.gov

Kevin Armbrust, State Chemist, State of Mississippi, 662-325-3324, armbrust@mscl.msstate.edu

Challenges and Initiatives in Harmonizing Maximum Residue Levels (MRLs) across the World

Chris J. Peterson, USDA-Forest Service, 662-325-0199, cjpeterson@fs.fed.us

Jason F. Sandahl, USDA-Foreign Agriculture Service, 202-720-0126, jason.sandahl@fas.usda.gov

Kenneth D. Racke, Dow AgroSciences, 317-337-4654, kracke@dow.com

Julie Callahan, American Chemical Society, 202-872-4449, j_callahan@acs.org



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Exposure to Chemicals in Urban Aquatic Environments

Scott Jackson, BASF Corporation, 919-547-2349, scott.jackson@basf.com
Paul Hendley, Syngenta, 336-632-6112, paul.hendley@syngenta.com
Joe Massey, Mississippi State University, 662-325-4725, jmassey@pss.msstate.edu

Government Collaborations in Scientific Research, Regulations, and Communications

Jeanette M. Van Emon, USEPA-NERL, 702-798-2154, vanemon.jeanette@epa.gov

Insect Management in Medical, Veterinary, and Urban Settings

Stanton Cope, USN MSC, 301-295-8306, stanton.cope@osd.mil
Daniel A. Strickman, USDA-ARS, 301-504-5771, daniel.strickman@ars.usda.gov
Stephen Duke, USDA-ARS, 662-915-1036, stephen.duke@ars.usda.gov

Managing Agricultural Gas and Particle Emissions Challenges

Laura McConnell, USDA-ARS, 301-504-6298, laura.mcconnell@ars.usda.gov
Cathleen Hapeman, USDA-ARS, 301-504-6451, cathleen.hapeman@ars.usda.gov
Steven Trabue, USDA-ARS, 515-294-0201, steven.trabue@ars.usda.gov
Scott Yates, USDA-ARS, 951-369-4803, scott.yates@ars.usda.gov
Amrith Gunasekara, California Department of Food and Agriculture, 916-445-4204, agunasekara@cdfa.ca.gov

Monitoring and Modeling Atrazine Ecological Exposure Potential

Paul Hendley, Syngenta Crop Protection Inc., 336-632-6112, paul.hendley@syngenta.com

New Developments and Issues in Agrochemical Sciences (General Presentations and Posters)

Ellen Arthur, Bayer CropScience, 913-433-5328, ellen.arthur@bayercropscience.com

Non-dietary Human Exposure and Risk Assessment

Mike Krolski, Bayer CropScience, 913-433-5317, mike.krolski@bayercropscience.com
Curt Lunchick, Bayer CropScience, 919-549-2986, curt.lunchick@bayercropscience.com

Organic Phosphate Transport, Fate, and Impact on the Chesapeake Bay

Walter Schmidt, USDA-ARS, 301-504-6765, walter.schmidt@ars.usda.gov
Lynne Heighton, University of Maryland, heighton@umd.edu

Recent Developments in Invertebrate & Vertebrate Repellents

Gretchen Paluch, Iowa State University, 515-294-9823, gre@iastate.edu
Joel Coats, Iowa State University, 515-294-9823, jcoats@iastate.edu
John J. Johnston, USDA-FSIS, 970-492-7188, john.johnston@fsis.usda.gov

Soil Bound Residues and Relevance to Environmental Exposure

Suresh Mislankar, Bayer CropScience, 913-433-5491; suresh.mislankar@bayercropscience.com
Kalumbu Malekani, DuPont Crop Protection, 302-451-3597; kalumbu.malekani@usa.dupont.com

Solvents in Aquatic Toxicology Testing

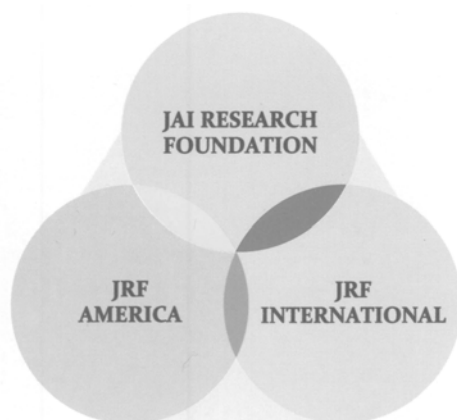
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Jai Research Foundation, The Global CRO Your "Preferred Partner of Choice for Regulatory Safety Evaluations"

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TOXICOLOGY

ACUTE PACK
SUB ACUTE (RODENT & DOG)
MUTAGENICITY
CARCINOGENICITY
REPRODUCTIVE TOXICITY
ECOTOXICITY

CHEMISTRY

PRODUCT CHEMISTRY
IMPURITY PROFILE - 5 BATCH
E-FATE AND METABOLISM
RESIDUE CHEMISTRY
WORKER EXPOSURE

REGULATORY SERVICES

REACH

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- ❖ Study Monitoring

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SPECIAL SYMPOSIUM

**Dr. Lawrence Burns Memorial Symposium on
Advances in Environmental Modeling**

co-sponsored by the AGRO and ENVR Divisions

Background

This symposium is being organized to recognize Dr. Lawrence Burns, eminent ecologist at USEPA's Office of Research and Development, for his immeasurable contributions to the field of environmental fate and transport simulation modeling. Larry, as everyone knew him, was a scientist's scientist. He was an enthusiastic and tireless supporter of scientists throughout the world in their endeavors to understand better the world around them. His Exposure Analysis Modeling System (EXAMS) is still the gold standard by which other models are measured. His untimely death in November 2007, less than a year after his retirement, was a shock and loss to us all. He is missed.

Purpose of Symposium

This symposium will provide an opportunity for environmental and risk assessment scientists to share the advancements in environmental modeling.

Suggested Topics

- Advances in terrestrial fate modeling - surface and subsurface
- Modeling effectiveness of buffer strips
- Modeling fate of chemicals in aquatic environments, wetlands, rice paddies and semi-aquatic environments
- Environmental kinetics modeling
- Watershed modeling
- Advances in modeling urban exposure
- Techniques to integrate mathematical modeling and monitoring for exposure assessment

For additional information contact the organizers:

Tharacad Ramanarayanan, Bayer CropScience, 919-549-2808,
tharacad.ramanarayanan@bayercropscience.com
Ronald Parker, USEPA, 703-305-5505, parker.ronald@epa.gov

*Abstracts (150 words or less) must be submitted on-line
at oasys.acs.org by **March 16, 2009***



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SPECIAL SYMPOSIUM

**Agricultural Research in Australia:
Critical Issues Leading up to the 12th IUPAC
International Congress on Pesticide Chemistry
in Melbourne 2010**

Purpose

This symposium serves to introduce the 2010 IUPAC International Congress on Pesticide Chemistry in Melbourne. The organizers would like those present to include scientists who may be interested in attending the congress in Melbourne. This symposium aims to provide an opportunity for contributions introducing representative topics relevant to pesticide chemistry, international/Australian agriculture, and disease vector control in 2010 for the upcoming IUPAC congress.

Suggested Topics

- Exciting information on the upcoming IUPAC -- global issues in Australia
- Environmental studies: climate change effects; pesticides in the environment; drought resistance
- Food security: insuring good & safe food supply; pest control; balancing food & biofuel
- Molecular targets for safe-pesticide discovery including US-Australian genome projects
- Development of resistance to pesticides and approaches for managing / overcoming resistance

For additional information, contact the organizers:

Ron Hill, CSIRO Molecular and Health Technologies, 61 2 9490 5076, ron.hill@csiro.au
Laura McConnell, USDA-ARS, 301-504-6298, laura.mcconnell@ars.usda.gov
Ken Racke, Dow AgroSciences, 1 317 337 4654, kracke@dow.com
Greg Simpson, CSIRO NMF/FS, 61 3 9545 2049, greg.simpson@csiro.au

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**Advances in Biofuels and Bioproducts:
Life Cycle Analysis and Sustainability**

Purpose of Symposium

Production and use of biofuels and bioproducts will play an important role in gaining independence from foreign oil and may also decrease greenhouse gas production. However, energy is required to produce the raw material and to process and to convert the materials to useable products. Transportation of the processed materials also requires energy. Life Cycle Analysis (LCA) tools are needed to determine whether the use biofuels and their production have net positive or negative environmental effects. In addition, the changes in land use could have broad long term effects on the environment as fallow fields and conservation reserves are converted to agricultural crops. The conversion of food crop lands to biofuel production also raises concerns.

Suggested Topics

- Environmental concerns associated with biofuel production – raw material production and post harvest – e.g., soil loss through erosion, greenhouse gas emissions, water quality and air quality
- Agronomic practices that address environmental concerns of biofuel production
- Model development for LCA
- Quantifying inputs for LCA models
- Quantifying positive and negative economic effects of biofuel production and use
- Changes in air quality associated with the use of biofuel versus petroleum based fuels
- Effects of land use changes associated with biofuel production
- Quantifying conversion of conservation reserve land to biofuel production
- Development of processes that address byproduct production from harvesting and conversion of crops
- Use of byproduct streams to generate biofuels and energy

For further information contact the organizers:

Cathleen Hapeman, USDA-ARS, 301-504-6451, cathleen.hapeman@ars.usda.gov
Joe Massey, Mississippi State University, 662-325-4725, jmassey@pss.msstate.edu
James Seiber, University of California – Davis, 530-752-1465, jnseiber@ucdavis.edu
Liliana Schwartz, DuPont Crop Protection, 302-999-4078, liliana.schwartz@usa.dupont.com
Terry Spittler, Cornell, 315-787-2283, tds2@cornell.edu

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Advancements in Geospatial Risk Assessment and Techniques

Purpose of Symposium

The past years have been characterized by an increased spatial awareness and use of the internet to conduct business. As a result, a geospatial component is increasingly commonplace in many risk assessments. The aim of this symposium is to present advancements in geospatial risk assessment, tools, methods, and datasets. Specifically advancements in predicting and characterizing the fate of agrochemicals, pharmaceuticals, veterinary medicines, and other trace organics in the environment and their relationship to ecological habitats will be covered.

This symposium is geared towards people conducting or interpreting the results from risk assessments with a geospatial component. Target audience includes developers, users, and regulators applying geospatial approaches. People attending the symposium will gain an understanding of the current state of geospatial risk assessment and future trends.

For further information contact the organizer:

Gerco Hoogeweg, Waterborne Environmental, Inc., 703-777-0005
hoogewegg@waterborne-env.com

Suggested Topics

- Geospatial risk assessment techniques and tools for agrochemicals, pharmaceuticals, veterinary medicines, and other trace organics in the environment
- Generating spatial and temporal distributions of environmental exposure
- Spatial and temporal co-occurrence of exposure and ecological habitats to characterize risk
- Geostatistical approaches to risk assessment
- Evaluating the influence of unit scale and data scales in the assignment of risk to sensitive units.
- Application of geospatial techniques to endangered species risk assessment for pesticides
- Application of web-based technologies to enhance understanding of critical areas

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Agrochemical Residue and Metabolism Chemistry

Purpose of Symposium

This symposium will focus on the determination of agrochemicals (herbicides, insecticides, fertilizers, anti-microbials, pheromones, animal health compounds, etc.), metabolites, and degradation products in a wide variety of matrices.

Suggested Topics

- Descriptions of equipment, supplies, data analysis, and techniques to improve limits of detection, sample throughput, isolation, identification, and/or characterization of target molecules and their metabolites
- Results of agrochemical metabolism in target and (or) non-target species, environmental fate, or field residue studies are also encouraged.

For further information contact the organizers:

Teresa A. Wehner, Merial, Ltd., 732-729-5713, teresa.wehner@merial.com
David J. Smith, USDA-ARS, 701-239-1238, david.j.smith@ars.usda.gov
John J. Johnston, USDA-FSIS, 202-365-7175, John.Johnston@fsis.usda.gov

Application of Natural Products in Organic Farming

Purpose of Symposium

Provide an opportunity for scientists from industry, government, university and regulatory institutions to share their latest research findings with respect to natural products and its application in organic farming for crop-production and protection.

Suggested Topics

- Natural products and semiochemicals for pest management
- Allelochemicals
- Bioprospecting for natural products
- Natural products against nuisance organisms

For additional information contact the organizers:

Kamlesh R. Chauhan, USDA-ARS, 301-504-5166, kamal.chauhan@ars.usda.gov
Stephen O. Duke, USDA-ARS, 662-915-1036, stephen.duke@ars.usda.gov

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**Biotechnology/Nanotechnology Risk Assessment:
Minding and Managing the Threats around Us**

Purpose of Symposium

Evolving bio- and nanotechnologies encompass a vast and diverse assortment of products and materials that have the potential to bring about major changes in our lives. However, remarkable benefits can all too often be accompanied by potential detrimental consequences.

Research efforts focused on recognizing, understanding, or responding to these consequences in terms of human and environmental impacts are particularly welcomed. Regulatory agencies are encouraged to share their views on human and environmental health and safety management.

Suggested Topics

- Environmental and human/animal health and safety implications related to biotechnology and nanotechnology products
- Fate and transport of engineered biotechnology/nanotechnology products and by-products
- Predictive risk assessment methods and models for understanding the potential consequences of bio and nanotechnologies
- Security and defense issues related to agroterrorism and protection of food and water supplies and agricultural economy infrastructure
- Industry and regulatory response and safeguards related to past, present, and future bio/nano threats
- Sensor and sensor network technologies for detecting, monitoring, and/or tracking bio and nanotechnology threats

For further information contact the organizer:

Steven Ripp, Ph.D., University of Tennessee, 865-974-9605, saripp@utk.edu

**Catfish Aquaculture:
Producing a Safe, Delicious and Nutritious Food for Consumers**

Purpose of Symposium

This symposium will bring together government, academic and industry scientists, producers and regulators working in the area of catfish aquaculture.

Suggested Topics

- Catfish contaminant analyses
- Pest control and risk/safety assessments,
- Trade issues, regulation, and bio-security
- Nutrition and flavor/off-flavor chemistry.

For additional information contact the organizers:

John J. Johnston, USDA-FSIS, 202-365-7175, John.Johnston@fsis.usda.gov

Kevin Armbrust, State Chemist, State of Mississippi, 662-325-3324, armbrust@mscl.msstate.edu

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**Challenges and Initiatives in Harmonizing
Maximum Residue Levels (MRLs) across the World**

Purpose of Symposium

This symposium will bring together global stakeholders to discuss pesticide residues in food crops and implications for maximum residue level (MRL) standards and global trade. Perspectives from international experts representing government, industry, grower organizations and academia will be highlighted. Expert lecturers will address different aspects of the problem as well as opportunities and solutions from the perspective of their sector and region of the world.

Suggested Topics

- Perspectives from government officials, industry, grower organizations and academic researchers
- Perspectives from international representatives: Africa, Asia, Europe, Latin America
- Global/Regional harmonization initiatives and programs
- Perspectives related to unique challenges for minor crops
- Data requirements for national, regional and international MRLs
- Development of international MRLs through the Joint FAO/WHO Meeting on Pesticide Residues (JMPR)
- Requirements for residue trials, residue data generation, and data sharing
- Crop classification systems and crop grouping approaches
- Access to advanced residue programs & data
- Prioritizing and addressing common MRL gaps and needs

For further information contact the organizers:

Chris J. Peterson, USDA-Forest Service, 662-325-0199, cjpeterson@fs.fed.us

Jason F. Sandahl, USDA-Foreign Agriculture Service, 202-720-0126, jason.sandahl@fas.usda.gov

Kenneth D. Racke, Dow AgroSciences, 317-337-4654, kracke@dow.com

Julie Callahan, American Chemical Society, 202-872-4449, j_callahan@acs.org

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Exposure to Chemicals in Urban Aquatic Environments

Purpose of Symposium

Provide a venue to share the latest data on the occurrence, sources and routes of transport of anthropogenic chemicals from "urban" uses that are found in water bodies flowing through non-agricultural areas. This symposium will focus on residues resulting from "urban" Pesticide uses, Pharmaceuticals, Personal care products and other human, urban and residential chemicals and their degradates; there is interest in residues found in waste-water treatment effluents and storm waters as well as in water and sediment in natural and channelized streams. In addition, recent thinking about modeling occurrence and transport of these residues and Best Management Approaches for reducing exposure will be welcome.

Suggested Topics

- Analytical and sampling technologies for urban water and sediment monitoring
- Residues detected - levels and frequency of co-occurrence
- Investigations of sources for residues detected in urban water bodies
- Modeling approaches to urban chemical transport and deposition
- BMPs for controlling urban aquatic exposure
- Associating measured residues with aquatic community status

For additional information contact the organizers:

Paul Hendley, Syngenta Crop Protection Inc., 336-632-6112, paul.hendley@syngenta.com

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

Joseph H. Massey, Mississippi State University, 662-325-4725, jmassey@pss.msstate.edu

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**Government Collaborations in Scientific Research,
Regulations, and Communications**

Purpose of Symposium

The symposium will bring together individuals from several governmental entities to describe formal and informal collaborations occurring at several stages of project management and implementation. Barriers to collaborations as well as opportunities for interactions of industry and academic scientists with government scientists will also be discussed. Effective communication venues for widespread information dissemination will be presented. Scientists from industry and academia are

welcome to present research conducted in collaboration with governmental scientists and learn of opportunities for collaborations.

Suggested Topics

- Joint government research projects
- Effective communication venues
- Collaborative research of government scientists with industry and academia
- Opportunities for governmental collaborations

For additional information contact the organizer:

Jeanette M. Van Emon, U.S. EPA-NERL, 702-798-2154, vanemon.jeanette@epa.gov

Insect Management in Medical, Veterinary, and Urban Settings

Purpose of Symposium

This symposium will review chemical toxicants used against arthropods that take blood, bite or sting, transmit pathogens, or harm structures. A wide range of stakeholders will benefit from the information presented, including those exposed to these pests, those who have the responsibility for giving advice on how to control these pests, and those who perform research for development of new products. Potentially, the symposium will clarify the categories of benefits from toxicants and the challenges involved in producing them.

Suggested Topics

- Damage from medical, veterinary, and urban arthropod pests.
- Integrated pest management for protection of people, animals, and structures.
- Review of requirements for products used by consumers.
- Review of requirements for products used by professional applicators.
- Discovery, development, and registration of new products.
- Research and product gaps.

For additional information contact the organizers:

Stanton Cope, USN MSC, 301-295-8306, stanton.cope@osd.mil

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Steve Duke, USDA-ARS, 662-915-1036, stephen.duke@ars.usda.gov

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Managing Agricultural Gas and Particle Emissions Challenges

Purpose of Symposium

Emissions from agricultural operations are highly variable in time and space and may require a series of sample collection and analytical methods to characterize their composition. Research scientists may work only in one venue, such as swine, feedlots, cotton ginning, fumigants, waste treatment, or they may only measure one component of interest (greenhouse gas, PM, ammonia, odors, VOCs). Effective collaboration between research teams may lead to more efficient progress in meeting the needs of farmers, regulators, and the public at large. Scientists from industry and academia are welcome to present research conducted in collaboration with governmental scientists and learn of opportunities for collaborations.

Suggested Topics

- Greenhouse gas emissions from agricultural operations
- Air quality challenges in agriculture
- Novel techniques in flux measurement
- Fate, transport and deposition of agricultural emissions
- Atmospheric reactivity of agricultural and urban emissions
- Innovative sample collection & analysis technologies
- Model assessment and validation
- Mitigation strategies/conservation practices
- Case Studies – providing solutions that work

For additional information contact the organizers:

Laura McConnell, USDA-ARS, 301-504-6298, laura.mcconnell@ars.usda.gov
Cathleen Hapeman, USDA-ARS, 301-504-6451, cathleen.hapeman@ars.usda.gov
Steven Trabue, USDA-ARS, 515- 294-0201, steven.trabue@ars.usda.gov
Scott Yates, USDA-ARS, 951-369-4803, scott.yates@ars.usda.gov
Amrith Gunasekara, California Department of Food and Agriculture, 916-445-4204, agunasekara@cdfa.ca.gov

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Monitoring and Modeling Atrazine Ecological Exposure Potential

Purpose of Symposium

To highlight recent industry, academics and government research on Atrazine residues in water bodies across corn/sorghum production regions. The symposium will stimulate the exchange of views on monitoring strategies and on the extrapolation of monitoring data from specific watersheds to predictions of residue occurrence across regions via the use of mechanistic and/or regression models as well as the application of modern spatial approaches. The symposium will largely consist of invited papers and posters.

Suggested Topics

- Magnitude and frequency of occurrence of Atrazine residues in water bodies
- Assessment of the ecological impact of Atrazine on primary productivity
- Historical monitoring data and trends in Atrazine residues over time
- Designing and validating models for runoff and transport in water bodies
- The impact of local soil and hydrologic conditions on runoff and model predictions
- Impacts of spatial scale on monitoring and modeling runoff

For additional information contact the organizers:

Paul Hendley, Syngenta Crop Protection Inc., 336-632-6112, paul.hendley@syngenta.com

Non-dietary Human Exposure and Risk Assessment

Purpose of Symposium

This symposium will provide a forum for scientists from industry, academia, and government to share investigative methods used to generate data for use in non-dietary human risk assessments and to share methodology for performing and evaluating those assessments.

Suggested Topics

- Study design and sampling techniques
- Analytical methodology and data collection
- Worker exposure risk assessment processes
- Impact of the Human Subjects Study Rule on conducting non-dietary exposure studies

For additional information contact the organizers:

Mike Krolski, Bayer CropScience, 913-433-5317, mike.krolski@bayercropscience.com
Curt Lunchick, Bayer CropScience, 919-549-2986, curt.lunchick@bayercropscience.com

*Abstracts (150 words or less) must be submitted on-line at oasys.acs.org by **March 16, 2009***



Call for Papers
238th ACS National Meeting & Exposition
August 16 – 20, 2009
Washington, DC

**Organic Phosphate Transport, Fate, and Impact
on the Chesapeake Bay**

Purpose of Symposium

Organic phosphate is a largely-unexplored component of the phosphorus cycle. Transport and fate of organic phosphates from terrestrial and *in-situ* aquatic sources are integral to understanding the nutrient cycle of the Chesapeake Bay. Analytical methods targeted solely at organic phosphates should be developed in order to facilitate development of Best Practices for phosphorus.

Suggested Topics

- Interactions with metals
- Eutrophication
- Analytical methods specific for organic phosphates
- Transport kinetics/thermodynamics
- Best Practices for phosphorus

For additional information contact the organizers:

Walter Schmidt, USDA-ARS, 301-504-6765, walter.schmidt@ars.usda.gov

Lynne Heighton, University of Maryland, heighton@umd.edu

Recent Developments in Invertebrate & Vertebrate Repellents

Purpose of Symposium

This symposium will represent the field's current understanding of vertebrate and invertebrate repellent modes of action, along with novel advances in active ingredients and formulation chemistries. Upcoming challenges in legislation and product registration, including an overview of the revised guidelines and future steps moving into non-human alternative testing methods will be discussed.

Suggested Topics

- Modes of action of repellents
- Laboratory and field studies with candidate arthropod repellents
- Development of repellents for wildlife management
- Product formulation chemistries
- Regulatory issues for registration of repellents

For further information contact the organizers:

Gretchen Paluch, Iowa State University, 515-294-9823, gre@iastate.edu

Dr. Joel Coats, Iowa State University, 515-294-4776, jcoats@iastate.edu

*Abstracts (150 words or less) must be submitted on-line
at oasys.acs.org by **March 16, 2009***



Call for Papers **238th ACS National Meeting & Exposition** **August 16 – 20, 2009** **Washington, DC**

Soil Bound Residues and Relevance to Environmental Exposure

Purpose of Symposium

This symposium will provide an opportunity for scientists to share methodology used to characterize bound agrochemical residues in soil, and to understand the potential long-term impact of these residues on water quality and ecological exposure.

Suggested Topics

- Use of analytical methods to extract and characterize the soil bound residues.
- Use of spectroscopic methods to identify the exact nature of the bound residues
- Movement of bound residues into ground or surface water
- Impact of bound residues on water exposure assessments
- Bioavailability of bound residues to plants and other organisms.

For additional information contact the organizers:

Suresh Mislankar, Bayer CropScience, 913-433-5491, suresh.mislankar@bayercropscience.com
Kalumbu Malekani, DuPont Crop Protection, 302-451-3597, kalumbu.malekani@usa.dupont.com

Solvents in Aquatic Toxicology Testing

Purpose of Symposium

The purpose of this symposium is to provide an opportunity for scientists to share information regarding issues that may arise from the use of organic solvents in aquatic toxicology studies and the subsequent use of control data from those studies.

Suggested Topics

- Solvents commonly used in aquatic toxicology studies.
- Contaminants of interest in organic solvents.
- Solvents as potential endocrine disruptors.
- Use of control data in aquatic toxicology studies.
- Bacterial/fungal contamination from solvent use in aquatic studies.

For additional information contact the organizers:

Spencer Mortensen, Monsanto Company, 314-694-3714, spencer.r.mortensen@monsanto.com
John Green, DuPont Crop Protection, 302-366-5310, john.w.green@usa.dupont.com

*Abstracts (150 words or less) must be submitted on-line
at oasys.acs.org by **March 16, 2009***

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Future ACS National Meetings

237th ACS National Meeting & Exposition
March 22-26, 2009, Salt Lake City, UT

238th ACS National Meeting & Exposition
August 16-20, 2009, Washington, DC

239th ACS National Meeting & Exposition
March 21-25, 2010, San Francisco, CA

240th ACS National Meeting & Exposition
August 22-26, 2010, Boston, MA

241st ACS National Meeting & Exposition
March 27-31, 2011, Anaheim, CA

242nd ACS National Meeting & Exposition
August 28-September 1, 2011, Denver, CO

243rd ACS National Meeting & Exposition
March 25-29, 2012, San Diego, CA

244th ACS National Meeting & Exposition
September 9-13, 2012, New York, NY

245th ACS National Meeting & Exposition
April 7-11, 2013, New Orleans, LA

246th ACS National Meeting & Exposition
September 8-12, 2013, Indianapolis, IN

247th ACS National Meeting & Exposition
March 16-20, 2014, Washington, DC

248th ACS National Meeting & Exposition
August 24-28, 2014, San Francisco, CA

249th ACS National Meeting & Exposition
March 22-26, 2015, Denver, CO

250th ACS National Meeting & Exposition
August 16 - 20, 2015, Boston, MA

251st ACS National Meeting & Exposition
March 13 - 17, 2016, San Diego, CA

252nd ACS National Meeting & Exposition
August 21 - 25, 2016, Philadelphia, PA

253rd ACS National Meeting & Exposition
April 2 - 6, 2017, San Francisco, CA

254th ACS National Meeting & Exposition
September 10 - 14, 2017, St. Louis, MO



3rd International Workshop on Crop Protection Chemistry in Latin America: Environment, Safety, and Regulation

9-12 November, 2009
Rio de Janeiro, Brazil

Co-Sponsoring Organizations

GARP – Associação Nacional dos Especialistas em Resíduos, Contaminantes e Poluentes Orgânicos
IUPAC Division of Chemistry and the Environment
AGRO – American Chemical Society

Workshop Objectives

- Facilitate the exchange of information and ideas regarding harmonized approaches available for the scientific evaluation and regulation of crop protection chemistry
- Provide a forum for presentation of the latest research in the areas of agricultural biotechnology, environmental and human health protection, risk management and regulation of crop protection chemicals in Latin America

Technical Program

The workshop will include a plenary program with simultaneous translation from English to Portuguese and Spanish. All attendees are encouraged to present a poster of their work to be displayed throughout the workshop. Eight overarching topics will be included:

- Risk Management and Regulation
- Global Harmonization
- Quality and Constituents of Pesticides
- Biotechnology for Crops and Public Health
- Innovative Chemistry and Technology for Crop Protection
- Environmental Chemistry and Ecorisk Assessment
- Pesticides Residues in Food
- Education in Crop Protection

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**12th IUPAC
International Congress of
Pesticide Chemistry**
www.iupacicpc2010.org

4-8 July 2010
Melbourne Exhibition and Convention Centre
Melbourne, Australia

Conference Themes include:

- *Pest Management and Crop Protection*— chemical ecology, crop protection in the GM crop era, natural products, biopesticides, mode of action & metabolism, discovery of new pesticides, resistance management
- *Emerging Issues for Industry* — global warming, drought tolerant crops, biofuels, GM crops
- *Regulatory and Residue*— international harmonization for determining maximum residue limits (MRLs) for pesticides; examination of CODEX; interaction of politics and science of risk assessment
- *Formulation and Delivery*— current and future trends in formulation; delivery of biopesticides and natural products; pesticide quality; application technology; uptake and translocation
- *Environmental Fate and Safety Assessment*—pesticide risk assessment and mitigation; endangered species; evaluation of best management practices; advances in simulation of pesticide fate and transport; using GIS tools and remote sensing; pesticide use in developing countries

Hosted by

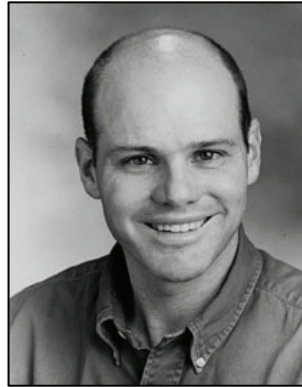


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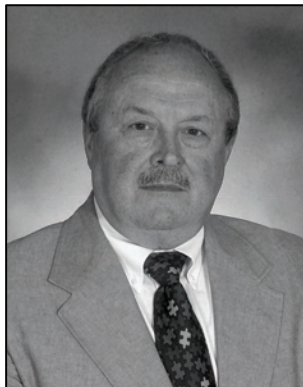
Dr. Kevin L. Armbrust
Division Chair



Dr. Ellen L. Arthur
Program Chair



Dr. Kenneth D. Racke
Vice Chair



Dr. Terry D. Spittler
Treasurer



Dr. Liliana Schwartz
Secretary

Officers and Committees of the AGRO Division

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Vice Chair			
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Secretary			
Liliana Schwartz	302-451-5842	FAX: 302-451-5943	liliana.schwartz@usa.dupont.com
Treasurer			
Terry D. Spittler	315-787-2283	FAX: 315-787-2320	tds2@cornell.edu
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Tim Ballard	J. Marshall Clark	Steve Duke	
Scott Jackson	Joe Massey	Cathleen Hapeman	
Diana Aga	Ken Racke	Keri Henderson	
Will Ridley	Pamela Rice	Ann Lemley	
Jay Gan	Scott Yates	Chris Peterson	
COUNCILORS			
2009 – 2011	Alternates		
Jeanette Van Emon	Rodney Bennett		
Don Wauchope	Barry Cross		

Division Committees

FERT Program Committee			
William Hall, Chair	863-428-7161	bill.hall@mosaicco.com	
Nominating Committee			
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Laura L. McConnell	301-504-6298	FAX: 301-504-6298	laura.mcconnell@ars.usda.gov
R. Donald Wauchope	828-862-3502	Cell: 229-392-6461	don_wauchope@citcom.net
Awards Committee			
James Seiber, Chair	530-752-1465	jnseiber@ucdavis.edu	
Members			
John Casida	Robert Hollingworth	Willis Wheeler	
Fritz Fuehr	Ralph Mumma	Izuru Yamamoto	
Bruce Hammock	Nancy Ragsdale		
Ernest Hodgson	Jim Tumlinson		
Membership Committee			
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Communications Committee			
Cathleen Hapeman, Chair	301-504-6451	FAX: 301-504-5048	cathleen.hapeman@ars.usda.gov
Members			
Tim Ballard – AG-LIST	Laura McConnell – Website Coordinator	Terry Spittler – Publishing	
Rodney Bennett – Books	Tom Potter – Femtogram Editor		
Jay Gan – Abstracts Editor	Sharon Papiernik – Awards Coordinator		
Finance Committee			
Barry Cross, Chair		bcross@weidel.com	
Terry Spittler, Ex Officio	814-272-1039	FAX: 814-272-1019	tds2@cornell.edu
Members			
Kevin Armbrust	Scott Jackson	John J. Johnston	
Al Barefoot			

Officers and Committees of the AGRO Division

(Continued)

Hospitality Committee			
Coffee Hour			
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Jim Brady	336-643-1158	Cell: 336-708-0097	jfbrady@bellsouth.net
Julie Eble	610-558-3001		Julie_eble@criticalpathservices.com
Joe Massey	662-325-4725	FAX: 662-325-8742	jmassey@pss.msstate.edu
Social Hour			
Aldos Barefoot	302-451-5856	FAX: 302-451-5941	aldos.c.barefoot@usa.dupont.com
Jeff Jenkins	541-737-5993	FAX: 541-737-5001	jeffrey.jenkins@orst.edu

Special Committees

Bylaws Committee			
Rodney Bennett	610 878 6476		rodney.bennett@jrfamerica.com
Patron Relations Committee			
Scott Jackson, Co-Chair	919-547-2349	FAX: 919-547-2407	scott.jackson@basf.com
Del Koch, Co-Chair	573-443-9003		kochd@abclabs.com
Laura McConnell	301-504-6298	FAX: 919-547-2407	laura.mcconnell@ars.usda.gov
Future Special Conference Committee			
John M. Clark, Chair	413-545-1052		jclark@vasci.umass.edu
Robert Hollingsworth			
Public Relations Committee			
Jeff Jenkins, Chair	541-737-5993	FAX: 541-737-5001	jeffrey.jenkins@orst.edu
Members			
Ann Lemley	James Seiber		
Education Committee			
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John Bourke, Investment Coordinator			
Allan S. Felsot,	509-372-7365	FAX: 509-372-7460	afelsot@tricity.wsu.edu
New Investigator Award Coordinator			
Members			
David Barnekow	Barry Cross		Glenn Miller
John M. Clark	Vincent Hebert		Judd O. Nelson
Joel Coats	Ann Lemley		William Ridley

PROGRAM COMMITTEE LISTING

See page 20

Past Chairs of the Pesticide Chemistry/AGRO Division

1969	Donald G. Crosby	1983	G. Wayne Ivie	1997	Willis Wheeler
1970	Elvins Y. Spencer	1984	Robert M. Hollingsworth	1998	Judd O. Nelson
1971	Wendell Phillips	1985	John Harvey, Jr.	1999	Richard Honeycutt
1972	Philip C. Kearney	1986	Henry J. Dishburger	2000	Ann T. Lemley
1973	Roger C. Blinn	1987	James N. Seiber	2001	Jeffery Jenkins
1974	Charles H. Van Middlelem	1988	Paul A. Hedin	2002	Terry D. Spittler
1975	Henry F. Enos	1989	Gustave K. Kohn	2003	Jeanette Van Emon
1976	Julius J. Menn	1990	Willa Garner	2004	Rodney Bennett
1977	James P. Minyard	1991	Guy Paulson	2005	Allan Felsot
1978	Gerald G. Still	1992	Joel Coats	2006	R. Donald Wauchope
1979	S.K. Bandal	1993	Larry Ballantine	2007	Laura L. McConnell
1980	Jack R. Plimmer	1994	Nancy N. Ragsdale	2008	John J. Johnston
1981	Marguerite L. Leng	1995	Don Baker		
1982	Gino J. Marco	1996	Barry Cross		



AGRO Strategic Plan 2008 Accomplishments & 2009 Plans

MISSION

The AGRO Division promotes knowledge benefiting society through advancements in agricultural, public health, and environmental science and technologies.

VISION FOR THE FUTURE

The AGRO Division will increase its recognition as a global leader in agriculture, public health, and environmental sciences by engaging and energizing its membership to foster global interactions that provide innovative solutions to challenges facing our world.

GOAL 1

Enhance the membership experience by providing accessible and innovative programs, educational products, mentoring and career services and opportunities for professional development and recognition.

Patricia Rice— patricia.rice@basf.com; 919-547-2668

Dan Stout— stout.dan@epa.gov; 919-541-5767

Accomplishments in 2008

- ✓ Created first AGRO Welcome Package for new and perspective members attending the Philadelphia Meeting
- ✓ Launched development of the "Member-Get-A-Member" program
- ✓ Graduate Student Luncheon held in Philadelphia – Presentation from Iain Kelly from Bayer CropScience
- ✓ Increased AGRO membership
- ✓ Initiated Electronic Balloting
- ✓ Launched new Division Website
- ✓ The first AGRO Early Investigator Award was presented to Dr. Ashli Brown (Mississippi State U) at the Philadelphia Meeting



Plans for 2009

- ◆ Complete development of the "Member-Get-A-Member" program
- ◆ Expand the AGRO Welcome Package information and circulation
- ◆ Complete review of membership survey feedback, document perceived needs, and develop action items
- ◆ Call non-active members to establish personal contact and invite and encourage participation
- ◆ Establish a jobs posting site on the AGRO webpage.
- ◆ Continue with Graduate Student Luncheon, and Early Investigator Award.
- ◆ Support more student-led symposia such as "Recent Developments in Invertebrate and Vertebrate Repellents" to be held at the Washington Meeting



AGRO Strategic Plan

2008 Accomplishments & 2009 Plans

GOAL 2

Foster constructive interactions among diverse communities to provide solutions to agricultural, public health, and environmental concerns.

Joe Massey— jmassey@pss.msstate.edu; 662-325-4725

John Johnston— john.j.johnston@usda.gov; 202-365-7175

Accomplishments in 2008

- ✓ At the PanPacific Conference, John Johnston organized a parallel workshop on Environmental Impact of Anticoagulant Rodenticide Workshop which brought together diverse groups to discuss solutions to invasive species issues in island ecosystems
- ✓ AGRO member, Cathleen Hapeman, invited by ACS to chair Congressional Briefing on "How Do Biofuels Impact Greenhouse Gas Emissions? Resulted in podcast released by ACS called "New Fuels". See ACS Press Room for more details
- ✓ Held symposium on Modern Pesticides in Urban Environments at the SETAC North America National Meeting in Tampa, FL

Plans for 2009

- ◆ Submit new proposal for programming at SETAC North America 2009 in New Orleans, LA
- ◆ Support development of novel programming such as "Government Collaborative Studies: Research and Regulations" to increase interactions among scientists of different groups.
- ◆ Submit proposals to ACS Pacificchem 2010 related to rodenticide based pest control strategies
- ◆ Organize symposium focused on aquaculture food safety and quality issues

GOAL 3

Build the infrastructure for becoming a global center for solutions to problems of plant, animal, environmental, and public health protection, and advancing scientific and regulatory harmonization.

Chris Peterson— cjpeterson@fs.fed.us; 662-325-0199

John Johnston— john.j.johnston@usda.gov; 202-365-7175

Accomplishments in 2008

- ✓ Received funding from ACS Innovative Grants for Divisional Enhancement "Global Agrochemical Issues: New Avenues for Cooperation"
- ✓ Successfully led organization and planning for the Pan Pacific Conference on Pesticide Chemistry in cooperation with the Pesticide Society of Japan in Hawaii in June 2008
- ✓ Participated in the 28th Latin American Chemical Congress (FLAQ) in Puerto Rico
- ✓ Don Wauchope, working with USDA Foreign Ag Service and Texas A&M Norman Borlaug Center for International Agriculture, inspected Food Safety Labs in Central American countries under as part of the Central American Free Trade Agreement

Plans for 2009

- ◆ Sponsor a special symposium at the Washington meeting "Challenges and Initiatives in Harmonizing Maximum Residue Levels (MRLs) across the World" and initiate the formation of a global expert network
- ◆ Sponsor a special symposium, "Agricultural Research in Australia: Critical Issues Leading up to the 12th IUPAC International Congress on Pesticide Chemistry in Melbourne" at the Fall National Meeting in Washington
- ◆ Co-sponsor 3rd International Workshop on Crop Protection Chemistry in Latin America in Rio de Janeiro, Brazil

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Minutes from the AGRO Division Business Meeting

Governance Meeting
Long-Range Planning Committee Meeting
Program Planning Committee Meeting

236th ACS National Meeting – Philadelphia, PA
Sunday, August 17, 2008, 5:30pm – 10:00pm
Crowne Plaza City Center
John Johnston – Chair

I. Secretary's Report – Liliana Schwartz

- Secretary's report was presented at the last Business Meeting.
- 234th ACS National Meeting Boston Minutes was prepared and distributed.
- Letters and e-mails to all participants in the 2007 AGRO Elections were sent.
- Submitted 2007 Annual Report to ACS.
- Electronic 2008 AGRO Elections being completed e-mailed letters to all candidates in the 2008 AGRO Elections.
- Business meeting for 236th ACS National Meeting in Philadelphia was scheduled. Conference room was reserved and food was ordered.

II. Treasurer's Report – Terry Spittler

While we enjoyed exceptionally good income from our T. R. Price Divisional operating account and from the Educational Trust Fund at JP Morgan over the last several years, annual value changes from both earnings and stock appreciation have recently leveled out and started to decrease. This unfortunately comes at a time when we have increased spending to enhance programming and membership attracting events. Our traditional fiscal reporting period does not reflect this year's (2008) steep decline in general income, nor the expenses expected for this meeting. It was suggested that an ad hoc financial oversight committee be formed to recommend spending guidelines this fall.

Action: AGRO Officers will create a task force to analyze AGRO finances and make recommendations for financial guidelines of the division in the future. This task force will be created in two months and will have a plan in place in four months from this meeting. **Motion passed.**

III. Technical Programming – Kevin Armbrust, Ellen Arthur, and Ken Racke

IV. 4th Pan Pacific Conference, Hawaii/August 17th 2008 – Al Barefoot and Joel Coats

- 4th Pan Pacific Conference, co-sponsored by ACS AGRO Division (chairs: Joel Coats and Al Barefoot) and Pesticide Science Society of Japan (chairs: Hiroshi Matsumoto and Koichi Yoneyama), was successful, better than initially expected: 236 total registrants including 24 complimentary registrations. The meeting comprised 10 technical sessions and 3 workshops. The total presentations were 206, including 85 invited speakers and 121 posters. ACS managed all the registration, housing etc. and participated in the programming too, doing a terrific job.
- Many abstracts came from China, but few scientists were able to attend the meeting due to budget cuts due to the earthquake, the Olympics, and difficulties in getting travel visas.
- Finance-wise, the meeting concluded with a positive balance of \$13,206, from which refunds have to be made. The sponsors for this meeting included corporations and small companies, as well (see PICOGRAM).

V. Latin American Federation of Chemical Associations (FLAQ) Puerto Rico – Kevin Armbrust, Cathleen Hapeman, and Joe Massey

- The meeting was sponsored by Science National Foundation and ACS. The ACS co-sponsored a symposium at FLAQ on bioenergy. AGRO played a highly visible role in this symposium with a number of members giving presentations or moderating sessions.

VI. SETAC, North America 29th National Meeting, Tampa/November 2008 – Pamela Rice, Laura McConnell, and Stuart Cohen

- This meeting is concentrating on Modern Pesticides in Urban Environments, Risk Assessment, and Management having around 400 participants. The strategic goal of this meeting is to involve sibling organizations in AGRO.

Action: AGRO will allocate up to \$2000 for its attendance at the SETAC Meeting.

Motion passed.

VII. 236th ACS National Meeting in Philadelphia Updates - Kevin Armbrust

- Updates regarding the meeting's activities (Posters Session, Blues and Brews Happy Hour, AGRO Symposium Brainstorming, Sterling B. Hendricks Memorial Lecture, International Award for Research in Agrochemicals Session, and the First AGRO Early Investigator's Award) were made.
- ACS, Pan Pacific, and SETAC had a big impact on division's scientific activity so far, displaying the biggest number of papers presented by AGRO so far.
- Amazon Gift Certificate Awards were introduced to encourage attendance on Thursday morning during the General Session.
- World events and the current economic climate were emphasized along with all the problems related to food, energy, and environment. AGRO will continue to address these issues in our future symposia or programming.

VIII. 2010's Venue(s) – Ken Racke

- It was proposed that AGRO be present during the 239th ACS National Meeting in San Francisco, Spring 2010. If a decision to go to San Francisco's Meeting will be made, it has to be announced in the web, next PICOGRAM etc. so that confusion will be avoided. Also, we have to decide in 2010 whether AGRO is returning to 2 national meetings per year. For this meeting there are already planned 9 symposia topics.

Action: We empower the Executive Committee to designate the official business meeting in 2010. **Motion passed.**

- 12th IUPAC International Congress of Pesticide Chemistry in Melbourne, Australia/July 2010, hosted by The Royal Australian Chemical Institute Incorporated was announced with 6 different topics (see page 41 in the PICOGRAM v. 75). Organizers are encouraging AGRO members

to participate with more papers, posters, and ideas for this meeting.

- Pacificchem Conference in December 15-20, 2010. John Johnston is the official reviewer for ACS for all abstracts submitted to the Agrochemistry section of Pacific Chem. John is also planning to organize two symposia at Pacificchem.

Action: Consider proposal of AGRO in participating at the Pacific Chem in Honolulu 2010. **Motion passed.**

IX. Florida Pesticide Residue Workshop – Kevin Armbrust

- This workshop was successfully run for 45- yrs. AGRO is encouraged to participate. It was proposed that the membership will be increased by \$10 and in this way the workshop participants will automatically become AGRO members.

Action: A few people will draft a proposal to the Executive Committee for AGRO to participate at the Florida Residue Workshop. **Motion passed.**

X. Updates from the Chair: 2007-2008

AGRO Accomplishments – John Johnston

- A historical overview of the AGRO Division beginning with 1995 until today with regard to membership, total of papers and posters by year was made.
- Current membership consists of 1389 scientists, significantly higher than in 2007 when the membership proved to be the lowest in the division's history (around 1,100 members).
- Paper and posters submitted in 2008 seem to be around 440, the highest number of publications in AGRO's history (beginning with 1992).
- New and old brainstorming activities have been initiated and sustained during 2007 and 2008, such as: Sunday Business Meeting, Strategic Planning, Blues and Brews, Student Lunch, Thursday Afternoon "AGRO Symposium".
- Increasing AGRO Membership was one of the most important goals in this period of time. Initiated and developed ideas emphasized the following: attraction of younger participants, scientists from new areas by leveraging resources with other national and international organizations, funds allocation to effect change, communication improvement (new website, new logo, new banners, increase size of "AGRO Umbrella", redefine AGRO's Vision, Mission, Focus, and Goals.

- AGRO - Chemistry for and from Agriculture - is revitalized and its future looks very promising.

XI. Membership Committee Report & Strategic Goal #1 – Pat Rice, Dan Stout, Todd Anderson, Ellen Arthur and Terry Spittler

- The first Strategic Meeting's goal: to enhance membership experience by providing programs, products, services and opportunities for professional development and recognition.
- The objectives associated with this goal ought to create more personal relevance for AGRO members and they focus on improving AGRO's programs, products, and services.
- The initial plans involve: establishing a Welcoming Committee, forming Professional Advancement Committee, using members' talent, and using the senior members' experience and wisdom.
- Tasks involve developing the "Welcome Package", reviewing feedback obtained from a membership survey, developing a "Member-Get-A-Member" program, contacting non-active members, and developing a Professional Advancement Committee.
- Overall, membership increased from the last reported period. Alternative resources for shipping and transitioning to an outside mechanism have been used. The key labor will likely remain gratis, but we will incur postage and packaging costs (Dan Stout).

XII. Amity, India – Tanu Jindal

Dr. Tanu Jindal, a scientist at Amity Institute for Environmental Toxicology, Safety and Management in Uttar Pradesh, India. She gave a presentation on Amity University, one of the biggest research and business centers in Asia, recognized by the Indian government with over 50,000 students.

XIII. Awards Committee – Jim Seiber

- Allan Felsot received the AGRO Fellow Award as a result of his significant work, dedication, enthusiasm, and creativity invested in division's advancement during the years.
- 2008 AGRO Awards were mentioned. They are:
 - ACS International Award for Research in Agrochemicals, co-sponsored by BASF and DuPont Crop Protection. Recipient: Dr. David Soderlund.
 - Sterling B. Hendricks Memorial Lectureship Award, co-sponsored by

USDA-ARS and AGFD. Recipient: Dr. Fergus Clydesdale

- AGRO Early Investigator, sponsored by Dow AgroSciences. Recipient: Dr. Ashli Brown
- Calls for nominations AGRO Division Fellow Award, ACS International Award for Research in Agrochemicals, Sterling B. Hendricks Memorial Lectureship Award, and AGRO Early Investigator were made.

XIV. 2008 AGRO Election Report – Laura McConnell

- AGRO Elections were held from May 27 to June 13 for Officers to begin service on January 1, 2009 (see PICOGRAM v.75, page 42). For the first time, the elections were done electronically using VOTE-Now.com, Pro Silver Service (contact: jclaiborne@vote-now.com). We received a 10% discount provided to ACS Divisions. The advantages presented were significant: instantaneous results available on-line, secure voting, and no paper or stamps.
- Process included:
 - First class post cards with access code to those without e-mail and to members with e-mail "bounces".
 - Custom e-mail with access codes to all members.
 - Two e-mail reminders to non-voting members.
 - Participation was 18.9%.
 - Cost involved: \$1492.

XV. Councilor Report: Joel Coats and Barry Cross

Barry was not able to attend the council meeting as he was recovering from surgery. Joel gave the report. ACS has adopted a new formula for division allocations that is now based upon attendance at technical sessions and poster sessions. It also gives equal credit to divisions cosponsoring symposia. Attendance calculations are based upon attendance reports submitted by symposium organizers, so it is CRITICAL that these be turned into ACS at the end of sessions.

- 65% funding is coming from programming
- 50% attendance to oral sessions

XVI. Communications (formerly Publications) Committee – Cathleen Hapeman

- Continued to publish 2 PICOGRAMS even though AGRO only at one National ACS Meeting

- PICOGRAM is now mailed first class because third class has too many delays
- Color was included on the cover of PICOGRAM v. 75 – total cost for ~ \$14K
- The Femtogram, the AGRO e-newsletter with Tom Potter as editor, made its first debut last Fall. It is a new communication venue to keep the membership informed of important events, achievements, and opportunities. Distribution is by AG-LIST and the website.
- AG-LIST is working well with ~ 900 members
- The new website is under development and will be on line Fall 2008
- The new logo is on the new banners
- Considering a lay book on bioenergy to educate the general public (see concept below)

ACS (probably in a format of Symposium Series) Book Concept

Biofuels: Challenges, Concerns, and Consequences

The 21st century will be governed largely by issues related to global energy use, energy demand, and distribution of energy resources. Alternative energies, such as those derived from biological sources, are anticipated to play an increasing role in meeting future demand.

Reliance upon agriculture to provide transportation fuels in addition to food, feed, and fiber represents a major paradigm shift that impacts global food security. This shift requires careful consideration and analysis.

To be sustainable, bio-energy production must not deplete the natural resources or systems upon which agriculture depends. This book addresses the challenges and possible solutions in producing bio-energy while protecting resources vital to agriculture.

- scientists will still write chapters but will present the issues in a teaching format
- outreach to public about important global issue (informed/concerned citizens)
- soft covered, book, more accessible
- already have a commitment from University of Maryland technical writer as co-editor
- verbal acceptance from 10 authors and more are being sought

XVII. Hospitality Committee – Pat Rice, Jim Brady, Joe Massey and Julie Eble

- At the 236th ACS National Meeting in Philadelphia 10 companies contributed \$2000.00 to the Coffee Lounge.
- It was announced that the AGRO Division Awards and Social will be on Tuesday, 6:00 – 8:00pm at the Liberty C, Crowne Plaza City Center.

XVIII. Public Relations Committee – Jeff Jenkins

Clydesdale Press Release 8/13/08

The Agricultural Research Service (ARS), U.S. Department of Agriculture's primary research agency, the Agriculture and Food Chemistry Division, and Agrochemicals Division of the American Chemical Society (ACS) will award Dr. Fergus M. Clydesdale with the 2008 Sterling B. Hendricks Memorial Lectureship. 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.

Dr. Clydesdale will be honored at the 236th ACS National Meeting & Exposition in Philadelphia, PA. With over 160,000 members, the ACS is the world's largest scientific society. The award presentation on August 19th titled "*A Nutritional Odyssey: From Famine to Feast, Can Science & Policy Solve the Dilemma?*" will be followed by a reception.

Dr. Clydesdale is currently Distinguished Professor and Head of the Department of Food Science at the University of Massachusetts, Amherst, as well as Director of both its Strategic Research Alliance and Strategic Policy Alliance, also in the Department of Food Science.

Soderlund Press Release 8/13/08

The Agrochemicals Division of the American Chemical Society (ACS) will present its International Award for Research in Agrochemicals to Dr. David M. Soderlund, Professor of Insecticide Toxicology and Chair of the Entomology Department at Cornell University's New York State Agricultural Experiment Station in Geneva.

Dr. Soderlund will be honored at the 236th ACS National Meeting in Philadelphia, PA. With over 160,000 members, the ACS is the world's

largest scientific society. The BASF Corporation and DuPont Crop Protection co-sponsored award presentation on August 19th marks the beginning of an Agrochemicals Division 1-day symposium.

Dr. Soderlund received a B.S. degree in Biology from Pacific Lutheran University in 1971 and a Ph.D. in Entomology from the University of California at Berkeley in 1976. After postdoctoral research at Rothamsted Experimental Station in the U.K he joined the Cornell University in 1978.

XIX. Educational Committee – John Johnston

- There are two educational programs at the 2008 Fall ACS Meeting in Philadelphia: The Student Travel Grant Research Poster Symposium and the Early Investigator Award.

a) Student Travel Grant Research Poster Symposium:

21 graduate students have been awarded AGRO Division travel grants to present their research posters at the ACS National Meeting in Philadelphia. Student winners represent thirteen universities from across the US. Names and titles are listed on pages 28, 29 of the PICOGRAM v. 75.

Expenditures: 21 x \$806 (award, ACS student membership, registration) + \$900 (first, second and third place winners) = \$17,826

Income: Bayer CropScience = \$5,000

b) Early Investigator Award: AGRO is sponsoring two Early Investigator presentations at the 2008 Fall Meeting in Philadelphia.

Dr. Ashli Brown, Assistant Professor, Mississippi State University, Department of Biochemistry and Molecular Biology. Dr. Brown will present her paper in the Bioenergy Production: Challenges, Concerns, and Consequences Symposium on Tuesday afternoon, August 19.

Dr. Tanu Jindal, Amity Institute for Environmental Toxicology, Safety, and Management

Amity University Uttar Pradesh, India. Dr. Jindal will present her paper in the "New Developments and Issues in Agrochemical

Sciences Symposium: Common crop protection practices and the possibility of groundwater contamination in different types of soil through leaching of currently-used pesticides" on Thursday morning, August 21.

Expenditures: \$3,500(First Place) + \$1,285 (Second Place) = \$4,785
Income: = \$0

c) Pan Pacific Conference on Pesticide Science:

AGRO sent a student to the Pan Pacific Conference on Pesticide Science, Hilliary Hodgdon, Animal Biotechnology and Biomedical Sciences Program University of Massachusetts-Amherst, Amherst, MA. She presented: "Binary Mixtures of Pyrethroids Augment L-Glutamate Release by Interacting with Voltage-Sensitive Calcium and Chloride Channels in Isolated Presynaptic Nerve Terminals from Rat Brain".

Expenditures: \$2,916

Summary of Education Funds

Endowment: \$400,000

Percent of endowment spent = \$20,527/\$380,902 = 5.4%

XX. By-Laws Committee

Don Baker wasn't able to attend our meeting due to the sudden loss of his wife and to health issues he is experiencing lately. The Executive Committee members have wondered whether Don will be able to be actively involved as he always was. The Executive Committee assigned Rod Bennett to contact him and find out more about his thoughts regarding his volunteering activity within AGRO Division.

Action: Based upon discussions with Don Baker, Rod Bennett is proposed Chair of the By-Laws Committee and Don Baker will continue his activity as a member of the same committee.

Motion passed.

XXI. Miscellaneous – Jeanette Van Emon

The Western Regional ACS meeting is being held September 23rd-27th in Las Vegas Nevada. Jeannette asked AGRO to co-sponsor the meeting.

Action: AGRO will co-sponsor the Meeting in Las Vegas up to \$500. **Motion passed.**

Treasurer's Report

236th ACS National Meeting – Philadelphia, PA
Sunday, August 17, 2008
Crowne Plaza City Center

AGRO Division Business Meeting Terry D. Spittler – Treasurer

	7/31/07	12/31/07	7/31/08
<u>CHECKING ACCOUNT</u>	\$49,497	\$16,826	\$8,893
<u>INVESTMENTS</u>			
Spectrum Income (T. R. Price)	170,005	175,443	173,566
Prime Reserve (T. R. Price)	1,263	1,289	1,310
Educational Trust (JPMorgan)	464,977	468,979	380,902*
ACS Investment Pool	26,880	27,351	25,936
TOTAL INVESTMENTS	\$636,272	\$673,062	\$581,714
TOTAL ASSETS	\$685,769	\$689,888	\$590,607

*\$40,000 to checking 3/08

Bylaws of the AGRO Division of the American Chemical Society *

* Effective October 27, 2000. 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 National Affiliate of the SOCIETY may apply to the Secretary to become a National Affiliate of the Division. Provided that Division dues established for National Affiliates are paid, a National 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 National 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 two years 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. The Secretary shall send to each member, at least two weeks before the regular meetings of the Division, abstracts of papers to be presented at said meetings.

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 mail 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. In all Division balloting conducted by mail, the ballot voted shall be sealed, without voter identification, in a special ballot envelope. The special ballot envelope, bearing no voter identification, shall be enclosed in a larger envelope upon which—or within which, on a separate slip—shall be hand-inscribed the name of the member voting; the larger envelope shall then be sealed and forwarded to the Chair of the Tellers Committee. 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 neither 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, 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 Hospitality 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 Publication Committee of at least three members. This Committee shall be responsible for publication of the Division 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 national meeting of the SOCIETY 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 the fall meeting of the SOCIETY. Division business requiring vote of the membership shall be conducted only at this meeting, except as provided elsewhere in these bylaws. However, voting by the membership may be conducted by mail 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. Special meetings may not be held within one month before or after a national meeting.

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.

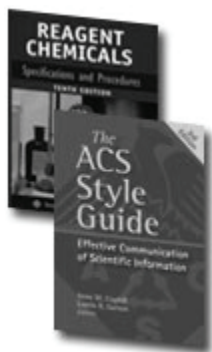
Section 2. Amendments shall become effective upon approval by the Committee on Constitution and Bylaws, acting for the Council, unless a later date is specified.

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.

Dear ACS AGRO Division Members:

ACS Books Accepting New Symposium Series Proposals ONLINE!



ACS Books is now accepting Symposium Series proposals through the new ACS Books Online Submission System powered by Scholar One's Manuscript Central. This new environment supports the proposal process from submission to acceptance. Please submit your proposals online at <https://acs.manuscriptcentral.com/acsbooks>.

The ACS Publications Help Desk is standing by to take your comments or answer your questions at paragonplus@acs.org or 1-800-227-9917 (in USA/Canada) or 202-872-4357 (outside of USA/Canada). The Help Desk operates Monday through Friday from 7:30 a.m. through 6 p.m. EST.

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Journal of Agricultural and Food Chemistry: **Healthgrains Special Issue** **Volume 56, Issue 21**

Highlighted by the contributions from Peter Shewry and an international group of researchers, the papers in this special issue illustrate the wide scope with which the *Journal of Agricultural and Food Chemistry* helps its global audience to understand significant advances and research in the chemistry and biochemistry of agriculture and food as it affects the world we live in.

150 bread wheat lines and 50 other lines of small-grain cereals were cultivated, harvested, milled, and analyzed in the Healthgram Program for a range of phytochemicals and fiber components that are considered to have health benefits. Detailed analysis was subsequently performed showing lines wherein high levels of phytochemicals and dietary fiber components originate and are combined with good yield and processing quality that would allow plant breeders to produce commercially competitive lines with high levels of bioactive components.

Articles:

The HEALTHGRAIN Cereal Diversity Screen: Concept, Results, and Prospects

Ward, Jane L., Poutanen, Kaisa, Gebruers, Kurt, Piironen, Vieno, Lampi, Anna-Maija, Nyström, Laura, Anderson, Annica A. M., Åman, Boros, Danuta, Rakszegi, Mariann, Bedő, Zoltan, and Shewry, Peter R.

Composition and End-Use Quality of 150 Wheat Lines Selected for the HEALTHGRAIN Diversity Screen

Rakszegi, Mariann, Boros, Danuta, Kuti, Csaba, Láng, László, Bedő, Zoltán, and Shewry, Peter R.

Variation in the Content of Dietary Fiber and Components Thereof in Wheats in the HEALTHGRAIN Diversity Screen

Gebruers, Kurt, Dornez, Emmie, Boros, Danuta, Anna Fraš, Dyncowska, Wioletta, Bedő, Zoltan, Rakszegi, Mariann, Delcour, Jan A., and Courtin, Christophe M.

Phytochemicals and Dietary Fiber Components in Rye Varieties in the HEALTHGRAIN Diversity Screen

Nyström, Laura, Lampi, Anna-Maija, Andersson, Annica A. M., Kamal-Eldin, Afaf, Gebruers, Kurt, Courtin, Christophe M., Delcour, Jan A., Li, Li, Ward, Jane L., Fraš, Anna, Boros, Danuta, Rakszegi, Mariann, Bedő, Zoltan, Shewry, Peter R., and Piironen, Vieno

Folate in Wheat Genotypes in the HEALTHGRAIN Diversity Screen

Piironen, Vieno, Edelmann, Minnamari, Kari- luoto, Susanna, and Bedő, Zoltan

Phytosterols in Wheat Genotypes in the HEALTHGRAIN Diversity Screen

Nurmi, Tanja, Nyström, Laura, Edelmann, Minnamari, Lampi, Anna-Maija, and Piironen, Vieno

Phenolic Acids in Wheat Varieties in the HEALTHGRAIN Diversity Screen

Li, Li, Shewry, Peter R., and Ward, Jane L.

Tocopherols and Tocotrienols in Wheat Genotypes in the HEALTHGRAIN Diversity Screen

Lampi, Anna-Maija, Nurmi, Tanja, Ollilainen, Velimatti, and Piironen, Vieno

Alkylresorcinols in Wheat Varieties in the HEALTHGRAIN Diversity Screen

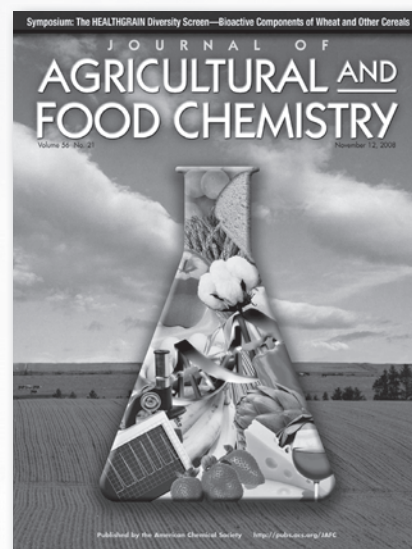
Andersson, Annica A. M., Kamal-Eldin, Afaf, Fraš, Anna, Boros, Danuta, and Åman, Per

Phytochemical and Fiber Components in Oat Varieties in the HEALTHGRAIN Diversity Screen

Shewry, Peter R., Piironen, Vieno, Lampi, Anna-Maija, Nyström, Laura, Li, Li, Rakszegi, Mariann, Fraš, Anna, Boros, Danuta, Gebruers, Kurt, Courtin, Christophe M., Delcour, Jan A., Andersson, Annica A. M., Dimberg, Lena, Bedő, Zoltan, and Ward, Jane L.

Phytochemical and Dietary Fiber Components in Barley Varieties in the HEALTHGRAIN Diversity Screen

Andersson, Annica A. M., Lampi, Anna-Maija, Nyström, Laura, Piironen, Vieno, Li, Li, Ward, Jane L., Gebruers, Kurt, Courtin, Christophe M., Delcour, Jan A., Boros, Danuta, Fraš, Anna, Dyncowska, Wioletta, Rakszegi, Mariann, Bedő, Zoltan, Shewry, Peter R., and Åman, Per



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2007 Total Citations: 45,286
2007 ISI Impact Factor: 2.532

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Impact Factor and citation data as reported in the 2007 Journal Citation Reports® by Thomson Reuters.

Transitions

Dear AGRO Colleagues:

I recently retired from USDA's Agricultural Research Service after ten years as Director of the Western Regional Research Center in Albany, CA. This was a wonderful period in my career, marked by growth in the Center's funding and expansion of programs in food healthfulness, biofuels and biobased products, biological control of invasive weeds and other pests, and plant and microbial molecular biology.



After retiring from USDA-ARS, I was appointed Chair of the Department of Food Science and Technology at the University of California, Davis, a campus where I had spent much of my career and hold the title of Professor Emeritus. FST has about 20 faculty members distributed among four core areas of food chemistry, food microbiology, food engineering, and sensory qualities of foods. It is part of the recently completed Robert Mondavi Institute of Wine and Food Sciences—a new facility housing the departments of FST and Viticulture and Enology.

I continue to serve as Editor in Chief of the Journal of Agricultural and Food Chemistry, and look forward to representing the journal at ACS and other meetings where AGFD and AGRO divisions have programs. I hope to see many of you at the ACS National Meeting in Salt Lake City or Washington, DC.

You can continue to reach me at the JAFCD office at Davis (jafc@ucdavis.edu) and also at the numbers listed below.

Jim

James N. Seiber, Department Chair
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530-752-1465
530-752-2490
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Notes



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Division Membership Questions?

Contact: Dan Stout, US EPA, 919-541-5767, stout.dan@epa.gov

WELCOME TO AG-LIST

The AGRO Division of the American Chemical Society maintains a Communications System, AG-LIST, dedicated to keeping members informed about what is happening in our Division and the Society. Keeping up with meeting agendas, calls for papers, committee progress, party locations, elections and other timely announcements is as simple as sending an e-mail. In fact, sending an e-mail is exactly how you get connected. Join the over 900 professionals who have subscribed to AG-LIST.

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The *PICOGRAM* is published twice a year and is the primary communications instrument of AGRO. The Fall issue also contains the national meeting abstracts for the AGRO Division. The *PICOGRAM* is mailed to approximately 1500 division members. Another 300 – 400 copies are distributed at each of the national ACS meetings. The page size for the *PICOGRAM* is 8.5" x 11"; ad costs are:

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