

ACS Division of Agrochemicals 2010 Ballot

Chair Elect (Vote for 1) – Serves as Chair Elect in 2011, Program Chair in 2012, and Division Chair in 2013.

Diana Aga
John Clark

Secretary (Vote for 1) – Serves in 2011

Liliana Schwartz

Treasurer (Vote for 1) – Serves in 2011

John Johnston

Executive Committee (Vote for 5) – Serves from 2011-2013

Ashli Brown
Julie Eble
Jay Gan
Amerith Gunsekara
Scott Jackson
Kalumbu Malekani
Glenn Miller
Pamela Rice
James Seiber
Keith Solomon

DIVISION OF AGROCHEMICALS; CANDIDATE FOR 2011 VICE CHAIR

Dr. Diana S. Aga

Professor, Department of Chemistry
University at Buffalo, The State University of New York

I am currently a Professor at the Chemistry Department of the University at Buffalo, The State University of New York (SUNY-Buffalo). I obtained my degree in B.S. Agricultural Chemistry at the University of the Philippines at Los Baños (Philippines, 1988), and my Ph.D. in Analytical and Environmental Chemistry at the University of Kansas (USA, 1995). During my Ph.D. work, I conducted my research at the United States Geological Survey, Water Resources Division, and was involved in national water quality surveys and investigations related to the fate and transport of agricultural pesticides in the US. In 1996, I became a postdoctoral fellow at the EAWAG, Swiss Federal Institute of Environmental Science and Technology (Zurich, Switzerland). While in Europe, I received a summer research fellowship from the North Atlantic Treaty Organization Scientific and Environmental Affairs Fellowship program to conduct research on ELISA development at the Technical University of Munich (Weihenstephan, Germany). In 1998, I moved back to the US and accepted a position as an assistant professor at the University of Nebraska-Kearney, where I received a National Science Foundation CAREER Award. After two years, I joined the Bayer Corporation, Agricultural Research Division, as a Research Chemist, in Stillwell, Kansas. In 2002, I joined the faculty of the Chemistry Department at SUNY- Buffalo.



I received a research fellowship in 2008 from the Alexander von Humboldt Foundation and spent a semester at the German Federal Institute for Materials Research and Testing (Berlin, Germany). My research interests include investigation of the fate and transport of contaminants in the environment, such as persistent organic pollutants, pesticides, pharmaceuticals, endocrine disrupting chemicals, and engineered nanomaterials. A major focus of my research is to identify unknown transformation products of contaminants in various environmental matrices and determine their contribution to the potential ecological risks associated with the parent compounds. We employ a variety of novel strategies in sample preparation, bioassays, and modern mass spectrometric techniques to achieve our research goals.

As an academician with some experience in industry and government, I value the role of the AGRO division in providing a neutral venue for exchanging scientific information among researchers and regulatory agencies, and as an important training ground for our future generation agriculture-related scientists. I strongly support the increased participation of graduate students and postdoctoral scientists in planning and organizing cross-disciplinary meetings and other AGRO activities. The significance of recognizing the scientific achievements of young scientists by providing them with competitive travel grants and awards is also something that I would like to be continued, and be extended to undergraduates. Finally, I believe that AGRO can play a critical role in promoting sustainable agriculture in both the industrialized and developing countries by incorporating more programs that are of international interest, through involvement of international organizers, or through co-sponsored symposia in other international meetings.

DIVISION OF AGROCHEMICALS; CANDIDATE FOR 2011 VICE CHAIR

Dr. John M. Clark

Professor, Veterinary and Animal Sciences
University of Massachusetts, Amherst

I am currently a professor of environmental toxicology & chemistry in the Department of Veterinary & Animal Science at the University of Massachusetts -Amherst and direct the Massachusetts Pesticide Analysis Laboratory for the Commonwealth of Massachusetts. I coordinate the Environmental Toxicology & Chemistry Concentration for the Environmental Sciences Program and am an affiliated faculty member in the Molecular & Cellular Biology and Plant Biology Graduate Programs. My educational background includes B.S. and M.S. degrees from the University of Wisconsin-Madison in Biology (1972) and Entomology (1977) and my Ph.D. degree in pesticide toxicology from Michigan State University (1981). My research interests include pesticide modes of action, (specializing on the pyrethroids), insecticide resistance mechanisms and management, and environmental fate and exposure assessment of pesticides. These interests have resulted in the publication of 7 edited books (6 are ACS Symposium Series books), 32 book chapters, and 143 peer-reviewed articles. In addition to organizing 14 scientific symposiums, I was a member of the Scientific Program Committees for the 2nd, 3rd, and 4th Pan-Pacific Conferences on Pesticide Science (Honolulu, HI) and for the 11th and 12th IUPAC International Congresses of Pesticide Chemistry (Kobe, Japan & Melbourne, Australia). I have served on 7 grant evaluation panels for the NIH, USDA and EPA and am on the editorial boards of 3 journals (*Pesticide Biochemistry and Physiology*, *Pest Management Science*, and *Medical Entomology*). I was the 2004 recipient of the International Award for Research in Agrochemicals from the Division and received the Outstanding Research Award from the College of Natural Resources and the Environment (UMASS) in 2005. The AGRO Division elected me as a Fellow in 2007. My students have won 7 Graduate Student Poster Presentations Awards, 6 Young Scientist Research Awards, and 1 Young Investigator Research Award. I mention this only to reaffirm that I have benefited greatly from my 33-year association with the AGRO Division and it would be an honor to serve as Chair.



I have been a member of AGRO since 1977 and have served on the executive committee since 1994. I have also been part of the recent strategic planning workshops that have had a large influence on the direction that our Division has taken to make it more relevant and useful to our membership. Many changes have occurred and much effort spent on our modernization plan, culminating in the AGRO Division that currently exists. We are all very proud of our accomplishments. However, the re-making of AGRO will always be a work in progress. If elected chair, I see my role as a facilitator of new ideas, an evaluator of our current and recently implemented strategies, and a spokesperson for the common interests that brings us together as a Division. Over the next 3 to 4 years, we must re-evaluate what we have done and determine what has worked and what has not. Successful changes need to be augmented, failed strategies fixed or dropped, and new and novel ideas advanced and implemented. I have had and will continue to have a strong interest in our scientific program. How our scientific program evolves and how we offer this information to our membership in the 21st century will be a particular interest of mine as chair.

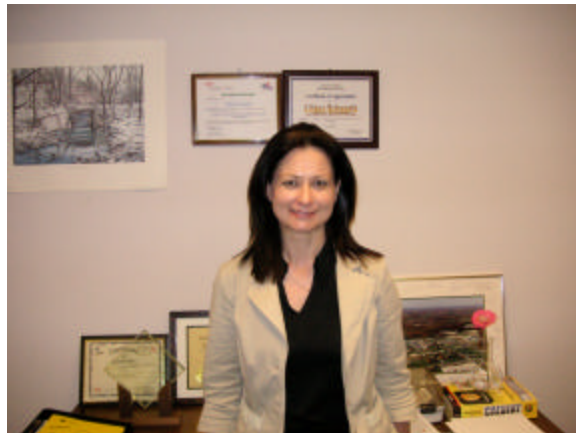
DIVISION OF AGROCHEMICALS; CANDIDATE FOR 2011 SECRETARY

Liliana Schwartz, Ph.D.

DuPont Leveraged Operations
E.I du Pont de Nemours and Company

Currently, Liliana is a Project Leader with E.I du Pont de Nemours and Company.

Previously, she was a Principal Investigator in Global Tech R&D, Crop Protection within the same company. Her academic experience includes a post-doctoral position at the University of Georgia in environmental modeling, and M.Sc. and Ph.D. degrees in chemical engineering, with expertise in design and development of controlled-release systems incorporating pesticides.



Liliana has been an active AGRO Division member since 2000, participating in different roles beginning in 2004 and has been the Secretary of the Division since 2006. Liliana feels she can make a real difference in helping to streamline AGRO's vision and strategic plan in addition to full-filling the other administrative functions of the secretary's position. Her intent is to continue to interact with various groups within ACS and institute straightforward standard operating procedures, to promote the new talents brought by new members joining AGRO, and to apply her international experience to enhance AGRO's international exposure. Liliana says, "Because I am familiar with the challenges confronting AGRO, I feel I possess the experience and knowledge to manage them and can successfully fulfill this position's responsibilities."

DIVISION OF AGROCHEMICALS; CANDIDATE FOR 2011 **TREASURER**

John J. Johnston, Ph.D.

USDA/Food Safety & Inspection Service
Office of Public Health Science/Risk Assessment Division



John Johnston is committed to the continued success and growth of the AGRO division. He finds the science, camaraderie, and public service aspects of AGRO to be particularly rewarding. John has been an active member of AGRO for the past 15 years. His AGRO related accomplishments include:

- Current Treasurer – AGRO Division
- Past Chair and Program Chair of AGRO
- Organizer and chair of 24 AGRO symposia at national ACS meetings including:
 - Pesticide Toxicology
 - Advances in Agrochemical Residue and Metabolism Chemistry
 - Student Research Poster Symposium
 - Pesticides & Wildlife
 - Invasive Species
 - Environmental Aspects of Rodenticides
- Chair: AGRO Education Committee

John currently employed as a Senior Risk Analyst for the USDA/Food Safety & Inspection Program/Office of Public Health Science. Previous professional experiences include:

- Leader/USDA/National Wildlife Research Center/Analytical Chemistry Project
- Mass Spectrometry Specialist/USDA/Food Safety & Inspection Program
- Research Associate/California Public Health Foundation
- Study Director/Metabolism –Environmental Fate-Residue Chemistry/Chevron Agrochemical Co.
- Postdoctoral Research Toxicologist/Pesticide Chemistry and Toxicology Lab/University of California -Berkeley

John feels that these experiences provide him with a broad skill set which facilitates his ability to identify and support a wide variety of interdisciplinary agrochemical-environmental-food science-public health science to support the continued growth of AGRO.

With respect to the AGRO treasurer position, John's qualifications and relevant experiences include:

- Member: AGRO Finance Division
- Created and managed budgets for \$7 million in research grants
- In conjunction with earning an MBA, John successfully completed graduate level courses in:
 - Accounting (2 semesters)
 - Finance (2 semesters)
 - Economics

John says, "If elected as AGRO treasurer, I believe I can serve the AGRO division well in this capacity. I appreciate your consideration of my qualifications to serve as AGRO treasurer"

**DIVISION OF AGROCHEMICALS; CANDIDATE FOR 2011
EXECUTIVE COMMITTEE**

Ashli Brown, Ph.D.

Assistant Professor
Biochemistry and Molecular Biology
Mississippi State University

I graduated with honors from the University of South Florida in December 2003, with a Ph.D. in Chemistry. My graduate research was focused in biochemistry, and I characterized the enzyme arginine kinase from the American cockroach, a leading causative agent in allergic asthma. The extensive kinetic inhibition studies conducted in this project are currently being evaluated for potential ways to possibly control population growth. I am currently working as an Assistant Professor at Mississippi State University, in the Department of Biochemistry and Molecular Biology. Rapidly depleting crude oil reserves and issues such as global climate change, environmental concerns, and energy security, have prompted me to focus much of my research on renewable alternatives such as green fuel, biodiesel, and bioethanol. In collaboration with Dr. Paul Williams (USDA, ARS, Corn Host Plant Resistance Unit) we are characterizing critical factors in *Aspergillus* that control the degradation of aflatoxin in order to use contaminated corn as a substrate for ethanol production, as well as improve overall food safety. I feel my background in biochemistry, agriculturally research, and concern for food safety will allow me to be an asset to the AGRO executive committee.



DIVISION OF AGROCHEMICALS; CANDIDATE FOR 2011 EXECUTIVE COMMITTEE

Julie Eble, Ph.D.

CEO

Critical Path Services, LLC

I am CEO of Critical Path Services, LLC (CPS) and founded the company in April 2001 to offer services to the regulated scientific industry. Under my leadership CPS achieved double-digit growth in seven out of nine years by delighting the customers and expanding the initial CPS offerings. In addition to analytical consulting and dossier-preparation services CPS also launched a GLP-compliant, trace-level laboratory focused on quantitative LC/MS/MS and ELISA techniques.

Prior to founding CPS, I worked for DuPont Crop Protection, where I managed projects for the crop protection division ranging from planning and implementing a business re-engineering to launching a worldwide program for project-management competency. I also acted as the Research Manager for a group accountable for tactical planning, resource management, and contracting technical studies aimed towards the successful development and registration of agrochemicals worldwide. Previously, I functioned as a Study Director, Sponsor Representative, and Analytical Coordinator for GLP studies in the areas of fate, ecotoxicology, and residue chemistry. I also developed numerous analytical methods using HPLC and GC techniques both during my employment at DuPont and previously while employed at Wyeth Laboratories.

I hold a M.S. and a Ph.D. in Analytical Chemistry from Villanova University, where I studied under Drs. Lloyd Snyder and Robert Grob.

I bring a strong chemistry and business background as well as over 25 years focused on the development and registration of agrochemicals.



DIVISION OF AGROCHEMICALS; CANDIDATE FOR 2011 EXECUTIVE COMMITTEE

Jay Gan, Ph.D.

Professor and Chair
Department of Environmental Sciences
University of California - Riverside

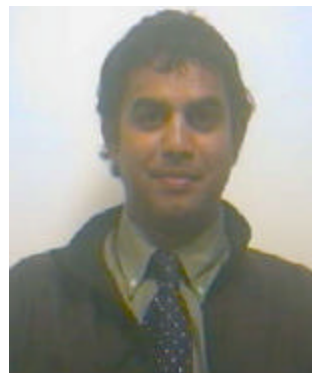
I am currently a Professor of Environmental Chemistry and the Chair of Department of Environmental Sciences, University of California, Riverside. I have been an active ACS member since 1994, and consider AGRO my home division. I received my Ph.D. degree from Zhejiang University in China in 1988, followed by postdoctoral training at the IAEA Laboratories in Seibersdorf, Austria (1990-91), University of Minnesota (1991-93) and the U.S. Salinity Laboratory (1993-95). My research is related to environmental fate and transport of pesticides, with an emphasis on water quality and risk mitigation. In my career so far I have authored over 150 journal articles, including over 30 articles in *J. Agric. Food Chem.*, AGRO's home journal. I have also edited two ACS books, including a book originated from an AGRO symposium that I co-organized. In my opinion, AGRO excels at preserving a continuum among academia, industry and governments. I will commit myself to further promoting this continuum and also advancing the international visibility of our division.



DIVISION OF AGROCHEMICALS; CANDIDATE FOR 2011 EXECUTIVE COMMITTEE

Amrith Gunasekara, Ph.D.

Staff Environmental Scientist
Fertilizing Materials Inspection Program
California Department of Food and Agriculture



I work for the California Department of Food and Agriculture (CDFA), Fertilizing Materials Inspection Program, as a Staff Environmental Scientist. I am responsible for addressing all scientific matters in the program. I obtained a B.S. in Environmental Sciences (1998), B.A. in Anthropology (1998), and a M.S. in Plant and Soil Sciences (2002) from the University of Massachusetts, Amherst. I completed my Ph.D. in Agricultural and Environmental Chemistry (2007) at the University of California, Davis. My focus of study throughout has been the environmental chemistry of hydrophobic organic compounds and their behavior in soil systems. In my regulatory role as a scientist in CDFA, I recently authored new regulatory language for laws and regulations to ensure fertilizer inputs used for producing organic food and crops are not adulterated. Environmental matters are a key component of my position. I am currently involved with understanding greenhouse gas emissions, specifically baseline nitrous oxide levels, from nitrogen fertilizer application in the agriculture systems of California and leading an AGRO symposium on this issue at the 2010 American Chemical Society meeting in San Francisco. I am active state control official of AAPFCO (Association of American Plant Food Control Officials) and continue to work closely with scientists and the faculty at the University of California, Davis. I hope to bring experience from the perspectives of academia and state government to the executive committee of AGRO and expect to also learn from others as a member of the executive committee. Thank you for your consideration.

DIVISION OF AGROCHEMICALS; CANDIDATE FOR 2011 EXECUTIVE COMMITTEE

Scott H. Jackson, Ph.D.

Principal Scientist
BASF Corporation

Dr. Scott H. Jackson is a principal scientist for BASF Corporation in Research Triangle Park, North Carolina. He has worked in Industry for more than 20 years in various technical capacities. In his role with their stewardship group, he has focused on exposure questions that involve modeling, environmental fate, and analytical chemistry. Scott frequently interacts with state, local, federal scientists and regulators. He received his B.S. degree in natural resources from Humboldt State University in Arcata, his M.S. degree in soil science from Fresno State University in Fresno, and his Ph.D. degree in environmental science from Union Institute in Cincinnati.



Scott is active in ACS at both the national and international levels. At the national level, he was one of the organizers of the urban exposure issues session at the fall 2009 ACS meeting held in Wash DC. At the International level, he was a seminar organizer for the Pan - Pacific meeting held in 2008. He is also active with a number of other organizations including the Pesticide Stewardship Alliance (TPSA), CropLife America (CLA), and acts as a reviewer for several journals. Scott is also an adjunct professor teaching earth science. His background will bring academic and industry experiences together to serve the executive committee.

DIVISION OF AGROCHEMICALS; CANDIDATE FOR 2011 EXECUTIVE COMMITTEE

Kalumbu Malekani, Ph.D., MBA

Research Associate
Environmental Safety Assessment
DuPont Crop Protection

I am currently working as a Research Associate in the Environmental Safety Assessment team at DuPont Crop Protection since May of 2003. I manage environmental laboratory and field projects placed at Contract Research Laboratories; and I am in charge of preparation of data package for global registrations. I obtained a B.S. degree in Chemistry (1985) from the University of Zambia, a M.Sc. in Soil Science and Applied Analytical Chemistry (1988) from the University of Aberdeen in Scotland, and a Ph.D. in Environmental Analytical Chemistry (1997) from South Dakota State University. I then did a Postdoc at the Connecticut Agricultural Experiment Station, working in Joe Pignatello's group on the fate of pesticides in the environment. I have spent part of my career as a lecturer at the University of Zambia and an Adjunct Assistant Professor of Chemistry at Johnson County Community College in Overland Park, Kansas. I worked for five years as a Research Scientist at Bayer CropScience in Stilwell Kansas, where I was in charge of conducting and directing most types of environmental fate studies to meet current and anticipated global regulatory needs for the registration of pesticide products, including those studies conducted at contract laboratories. Thus I bring experience from the perspectives of industry, academia and regulatory science to the executive committee of AGRO.



DIVISION OF AGROCHEMICALS; CANDIDATE FOR 2011 EXECUTIVE COMMITTEE

Glenn C. Miller, Ph.D.

Professor of Natural Resources
University of Nevada - Reno

I am currently a Professor of Natural Resources and Environmental Science at the University of Nevada, Reno. I have a B.S. in Chemistry from the University of California, Santa Barbara and a Ph.D. in Agricultural Chemistry (1977) from the University of California at Davis. Following graduate studies, I spent a year of postdoctoral study at the EPA's Environmental Research Laboratory in Athens, Georgia. During my tenure at the University of Nevada, I was director of the graduate program in Environmental Sciences and Health at UNR from 1996-2006. I spent a year at Valent USA, a subsidiary of Sumitomo Chemical, during 2008-2009, as Manger of the Environmental Exposure Assessment Group. Current areas of research include the chemistry of pesticides on soil surfaces, as well as the photocatalytic processes that occur on soil surfaces, including perchlorate production and fixation of atmospheric nitrogen to nitrate. Working in Nevada, I have long-term interest in the impacts of mine waste on the environment and the use of sulfate reducing bioreactors for treatment of acid mine drainage. In the last few years, I have become interested in the use of a variety of arid lands plants for production of biofuels. I have been a member of the Agrochemicals Division (Pesticide Division) for over 30 years and feel strongly that it has been one of the leaders in development of an understanding of environmental organic chemistry. One of my primary concerns is the lack of support for graduate education in environmental chemistry and am proposing a program that will encourage graduate students to work in the agrochemicals industry during their graduate education and better understand the future of the agrochemicals industry and the need for a focus on fate and transport, and, human and ecological toxicology of agrochemicals.



DIVISION OF AGROCHEMICALS; CANDIDATE FOR 2011 EXECUTIVE COMMITTEE

Pamela Rice, Ph.D.

Research Chemist

US Department of Agriculture – ARS
St. Paul, MN.

Pamela Rice received a Ph.D. in Toxicology from Iowa State University and is employed as a research chemist with the USDA-Agricultural Research Service (ARS), Soil and Water Management Research Unit, St. Paul, MN. In addition she is an adjunct assistant professor in the Department of Soil, Water and Climate and the Water Resources Science program at the University of Minnesota. Her research activities include basic and applied research in environmental chemistry and toxicology with a focus on the environmental fate and transport of plant and animal protection products in agricultural and non-agricultural



systems and their impact on water quality. Pamela has been a member of the American Chemical Society (ACS) and the Division of Agrochemicals (AGRO) since she was a graduate student and is currently a member of both AGRO and the Division of Environmental Chemistry (ENVR). She has been involved in the following AGRO division activities: participant of ACS-AGRO Strategic Planning Conferences in 2006 and 2008; served on the Executive Committee, Program Committee, and Global Affairs Committee; co-organized 4 symposia; presented papers and posters at national meetings; authored or co-authored symposia book chapters and manuscripts; served as a student poster judge and received the Young Scientist Research Award. She has also served on the Student Awards Committee for ACS-ENVR division, the organizing and program committees of the 4th Pan Pacific Pesticide Conference (June 2008) co-sponsored by ACS-AGRO and Pesticide Science Society of Japan, and co-organized a symposium with ACS-AGRO and the Society of Environmental Toxicology and Chemistry (SETAC) at the 2008 SETAC-North America meeting.

DIVISION OF AGROCHEMICALS; CANDIDATE FOR 2011 EXECUTIVE COMMITTEE

Dr. James N. Seiber

Professor and Chair
Department of Food Science and Technology
University of California - Davis

James N. Seiber, a native of Missouri, received his degrees in chemistry from Bellarmine College, AB (Louisville, KY), Arizona State University.M.S. (Tempe, AZ) and Utah State University Ph.D. (Logan, Utah). He has held positions as a research scientist at Dow Chemical Company (Midland, MI and Walnut Creek, CA). He was a faculty member at the University of California, Davis, in the Department of Environmental Toxicology, from 1969 to 1992, where he served as Professor and Department Chair, and as Associate Dean for Research in the College of Agricultural and Environmental Sciences. Seiber returned to the University of California, Davis, to his present position as Chair of the Department of Food Science and Technology in January 2009.



He was founding director of the Center for Environmental Sciences and Engineering at the University of Nevada, Reno in 1992, where he initiated a multidisciplinary program of research and graduate education in Atmospheric Sciences, Hydrology, Conservation Biology, Environmental Health, and Environmental Engineering, involving 125 faculty and 250 students. He provided system-wide coordination between Desert Research Institute and both University of Nevada campuses (Reno and Las Vegas) in environmental sciences and engineering, and coordinated University of Nevada programs in the Lake Tahoe Basin..

He taught several courses and mentored 40 graduate students to M.S. and Ph.D. degrees at UC Davis and UNR, mostly focused on analytical method development and transport/fate, notably in agricultural and forested environments, and food safety. His work included systematic studies of agricultural chemicals in fog.

He joined the U.S. Department of Agriculture's Agricultural Research Service in 1998 as Director of the Western Regional Research Center (WRRC) in Albany, CA. He oversaw eight research units: Exotic and Invasive Weeds, Produce Safety and Microbiology, Bioproduct Chemistry and Engineering, Processed Foods, Crop Improvement and Utilization, Plant Mycotoxins, Genomics and Gene Discovery, and Foodborne Contaminants. He was involved in the development and implementation of food safety and biobased product initiatives at the WRRC.

Since January 1999, Seiber has served as Editor of the *Journal of Agricultural and Food Chemistry*. *JAFAC* publishes approximately 1,500 manuscripts per year in 24 issues, submitted by U.S. (25%) and international (75%) authors.

Seiber has been an active member of the AGRO Division, as Program and Division Chair, member of the Executive committee, and organizer/co-organizer of over 20 symposia at national and special meetings and conferences. He currently chairs the Awards committee.

DIVISION OF AGROCHEMICALS; CANDIDATE FOR 2011 EXECUTIVE COMMITTEE

Keith. R. Solomon, Ph.D.

Professor, School of Environmental Sciences
Director, Center for Toxicology
University of Guelph

I retired in January 2010 from the School of Environmental Sciences at the University of Guelph but am an Adjunct Professor in the School and continue to serve as Director of the Centre for Toxicology. I continue to teach courses in toxicology and pesticides at the University of Guelph and to advise graduate students. I direct an active program of research into the fate and effects of pesticides and other substances in the environment, exposure of humans to pesticides and industrial chemicals, and risk assessment. I currently serve on several advisory committees on matters related to environmental toxicology and pesticides in Canada, the USA, and internationally. I am a member of the American Chemistry Society (Agrochemistry and Environmental Chemistry), Society of Environmental Toxicology and Chemistry, and the American Association for the

Advancement of Science. I was the recipient of the 1993 Society for Environmental Toxicology and Chemistry-ABC Laboratories award for Environmental Education, elected as a Fellow of the Academy of Toxicological Sciences in December 1999, and the recipient of the 2002 American Chemical Society International Award for Research in Agrochemicals. In 2006, I was awarded the SETAC Europe Environmental Education Award and the Society for Environmental Toxicology and Chemistry Founders Award. If elected, I will bring experience from academia, risk assessment for pesticides, and global agrochemical issues to the Executive Committee of AGRO.



DIVISION OF AGROCHEMICALS; CANDIDATE FOR 2011 SECRETARY

Liliana Schwartz, Ph.D.

DuPont Leveraged Operations
E.I du Pont de Nemours and Company



Currently, Liliana is a Project Leader with E.I du Pont de Nemours and Company. Previously, she was a Principal Investigator in Global Tech R&D, Crop Protection within the same company. Her academic experience includes a post-doctoral position at the University of Georgia in environmental modeling, and M.Sc. and Ph.D. degrees in chemical engineering, with expertise in design and development of controlled-release systems incorporating pesticides.

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