



# ACS SPRING 2023

## INDIANAPOLIS

### AGRO Call for Papers

August 15 – October 17, 2022



# Spring 2023 ACS National Meeting and Exhibition

## Indianapolis, Indiana, USA

### March 26 – 30, 2023

#### *Remarks from the 2023 AGRO Chair and Program Chair*

Heidi Irrig, Chair, [heidi.irrig@syngenta.com](mailto:heidi.irrig@syngenta.com)

Aaron Gross, Program Chair, [adgross@vt.edu](mailto:adgross@vt.edu)

#### *Why is AGRO Participating in the ACS Spring 2023 National Meeting?*



The Agrochemical Division (AGRO) of the American Chemical Society is comprised of academics, government, and industry scientists dedicated to advancing agricultural productivity, public health, and the environment.

While we all enjoy the variety of horticultural crops (typically, fruits and vegetables) from the US west and east coasts and from the south to the north, the row crops grown in the mid-west, also known as the **Crossroads of America**, play a vital role in the global food system. The importance of this growing region to world agriculture is the reason why AGRO will participate with a limited program at the Spring 2023 ACS national meeting!

Additionally, we will have a fantastic opportunity to tour an industry research and development center and discuss the state-of-the-art efforts to develop and bring novel chemistries to life with agricultural industry scientists. This meeting will serve as a preview to the full program at the Fall 2023

National Meeting and Exposition in San Francisco where AGRO will finally come together to celebrate 50 years with expanded programming, the 50th anniversary gala, and a special Ag tour.

Even though AGRO will have a small program at the Spring meeting compared to what we typically host in our Fall program, our Indianapolis program will be full of cutting-edge science research presentations and discussions. This will be achieved with four planned symposiums on hot topics for row crops, agroecosystems, future agricultural technologies, and the ever-growing issue of scientific illiteracy. Detailed descriptions of the symposia, the Call-for-Papers, follow. **Consider submitting an abstract today.**

**Please note: We intend for this to be an in-person meeting** to take advantage of the U.S. Midwest serving as the Crossroads of America and the regional agricultural activity. This will truly be a special AGRO meeting in a location too good to pass up. If we do not see you in Indy, we hope to see you in San Francisco!



## SPRING 2023

*Crossroads of Chemistry*



***Call for Papers***  
**265<sup>th</sup> ACS National Meeting & Exposition**  
**March 26-30, 2023**  
**Indianapolis, Indiana USA**

***Advancing Regulation, Education, Public Policy  
in an Age of Skepticism and Scientific Illiteracy***

**Purpose of Symposium**

This symposium will share examples and best practices describing how scientists can contribute to public education of scientific regulations, guidelines, and weight-of-evidence. Any level of expertise is welcomed to submit examples of publications, communication tools and concerns on policy issues that might need further attention and possibly joint efforts and cross-sectorial cooperation, at national and international level.

The outcome of the symposium is more important than ever, as it attempts to provide solutions to increase the effectiveness of scientific education to the public in an era of skepticism and scientific illiteracy.

Participation and contributions are welcome from members of other ACS Divisions, including ANYL, ENVR, ORGN, and AGFD, as well as other scientific organizations.

**Suggested Topics**

- Regulatory progress and gaps
- FIFRA improvements
- The Endangered Species Act (ESA) conundrum
- Education and public outreach
- Maximum Residue Limits (MRLs) and trade
- Building trust with consumers and agencies (transparency, communications)
- Food safety paradigms
- Educational programs
- Communication tools

For further information, contact the organizers:

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Ronda Hamm, Corteva Agriscience, ronda.hamm@corteva.com

Genevieve O'Sullivan, CropLife America, 202-872-3864, gosullivan@croplifeamerica.org

Submit abstracts of 2500 characters or less to

<http://maps.acs.org>

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***Innovative Technologies to Support 21<sup>st</sup> Century Agriculture***

**Purpose of Symposium**

The development of new agricultural production technologies will be critical to support the needs of the growing world population in the face of ever-shrinking cultivated land, climate change, resistance, and regulatory pressure. The discovery of new agrochemicals will be vital, but new technologies for active ingredient analysis, production, delivery, and deployment (formulations, targeted spray applications, seed treatments, etc.) are needed. An engaged community with a forum to discuss emerging technologies will help drive the future of agriculture.

This symposium is designed to appeal to a broad audience of academic and industry experts to discuss emerging technologies that will support 21<sup>st</sup> Century Agriculture and to help guide the future of crop protection. The symposium may be of interest to other ACS divisions such as ENVR, ANYL, AGFD, ORGN and I&EC.

**Suggested Topics**

- Discovery chemistry (traditional agrochemistry)
- Seed and soil applied chemistry development
- Process Chemistry Development
- Natural products and biologicals
- Animal health-related products and urban pest control
- Digital agriculture
- Advances in formulations, targeted spray applications
- Emerging analytical technologies (offer posters)

**For further information, contact the organizers:**

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***Midwest Row Crop Revolution: Agrochemistry State of Affairs  
after a Quarter-Century of Biotech-Enabled Agriculture***

**Purpose of Symposium**

The introduction of genetically modified row crops to the Midwestern U.S. and Southern Canada some 25 years ago signaled the beginning of a new agronomic era. Dramatic changes in agricultural practices, including those related to pest management and agrochemical use, have accompanied the widespread adoption of corn and soybean varieties with tolerance to non-selective herbicides and resistance to above- and below-ground insect pests. Currently, more than 90 percent of North American corn and soybeans are produced using genetically modified varieties.

The purpose of this symposium is to bring together experts from academia, industry, government, and advocacy groups to share data and insights regarding the impacts this Midwest row crop revolution has had on agriculture, environmental quality, human well-being, and the agrochemical enterprise.

In addition, implications of how current agrochemical, biotech, and agronomic trends may impact the future will be debated. Perspectives will be invited as to the most desirable options that support the drive towards increased sustainability.

**Suggested Topics**

- Changes in integrated pest management practices and agrochemical use patterns
- Implications for agrochemical and seed research and development efforts
- Weed resistance and management experiences
- Considerations related to sustainability, conservation management, and ecosystem services
- Transport of pesticides and nutrients and significance for land, water, and air quality
- Human exposure considerations, including food residue standards and impact on trade
- Ecological impact trends, including biodiversity, pollinator health, and endangered species populations
- Best management practices to minimize impacts of agrochemistry in the Midwest region
- Evolving grower and consumer perspectives toward agriculture, agrochemicals, and biotechnology
- Changes in regulation of agrochemicals and seeds
- Evolutionary and/or revolutionary changes anticipated for the coming quarter century

**For further information, contact the organizers**

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***Understanding Environmental Quality and Health in Agroecosystems***

**Purpose of Symposium**

In modern agriculture, the use of modern integrated cropping systems has led to enormous gains in productivity and efficiency over the last half-century. Although understanding of these systems in an agronomic sense is quite advanced, their role as an overall ecosystem continues to be a fruitful avenue of research.

The purpose of this symposium is to bring together experts from a variety of disciplines working within academia, government, advocacy groups and industry to present current research in how agroecosystems influence environmental quality, how such effects can be quantified, and how policy makers and the public may view the future of the agricultural enterprise in this context.

**Suggested Topics**

- Defining and assessing ecosystem services offered by agroecosystems
- Implications of current and future agronomic systems on biodiversity
- Measurement and modeling of key factors impacting agroecosystems and their surroundings
- Policy implications of balancing agricultural productivity and environmental quality
- Management of agroecosystem impacts on wildlife and pollinators
- Implications of potential impacts on soil biodiversity
- Environmental risk mitigation and management programs at local to national scales
- Remediation of environmental impacts at local to national scales

**For further information, contact the organizers:**

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# SAVE THE DATE

March 29, 2023

## Crossroads of Ag Innovation

AGRO Evening Social



Networking and  
Engagement



Scientific  
Celebration



Food and  
Fun

- Come celebrate with AGRO during the Spring 2023 ACS meeting in Indianapolis
- Hosted by Corteva Agriscience at its stunning Indy R&D campus
- Transportation will be provided
- **Network and engage** with fellow scientists
- **Enjoy** refreshments and have fun
- Test your knowledge and **win prizes**

More Details Coming Soon!