AGRO Division
Program Summary
August 22-26, 2021
Qing Li, Program Chair; Leah Riter, Division Chair

All AGRO Sessions are virtual and may be accessed through the ACS Virtual Meeting Platform. All times are Eastern Time Zone (USA).
**Denotes award presentation in session.

NETWORKING EVENTS

Coffee Breaks
Sunday 8/22/21– Thursday 8/26/21, 10:00:00 AM - 10:30:00 AM (EDT)
Enjoy coffee and casual conversation in a zoom setting. All AGRO enthusiasts are welcome!

Student and Post-Doc Virtual Networking Events
Sunday 8/22/21– Thursday 8/26/21, 4:00:00 PM - 4:30:00 PM (EDT)
Visit with professionals in academia, industry, and government to discuss your career opportunities in the AGRO sector and future AGRO involvement.

AGRO Program Planning – Virtual Blues & Brews
Wednesday 8/25/21, 12:30:00 PM - 2:00:00 PM (EDT)
Share your ideas about future AGRO programming, learn more about organizing an AGRO symposium, and plan for the Chicago National Meeting in fall 2022 (Meeting theme: Sustainability in a Changing World). Prizes, game activities, and more!

AGRO Awards Virtual Social
Thursday 8/26/21, 12:30:00 PM - 2:00:00 PM (EDT)
Celebrate all the AGRO award winners! Play games for valuable prizes.

AGRO Business Meeting
This meeting has been postponed to September. Watch the website and email blasts for date and time. All are welcome to attend

TECHNICAL SESSIONS

2021 ACS International Award for Research in Agrochemicals: Receptor / Channel Targets of Chemicals Controlling Insect & Nematode Pests, Vectors & Pathogens
Financedly Sponsored by Corteva Agriscience
Cosponsored by AGFD
Organizers: John Clark, Kazuhiko Matsuda, Kazuhiko
**Monday 8/23/2021, 10:30:00 AM - 12:30:00 PM – International Award, David Sattelle
Monday 8/23/2021, 2:00:00 PM - 4:00:00 PM
Monday 8/23/2021, 4:30:00 PM - 6:30:00 PM
Monday 8/23/2021, 7:00:00 PM - 9:00:00 PM
Tuesday 8/24/2021, 10:30:00 AM - 12:05:00 PM
Analytical Technologies in Agrochemistry and Strategies for Chiral Separation
*Cosponsored by ENVIR, AGFD*

*Organizers:* Amand Chen, Maria Elena Cabusas, Pamela Jensen, Scott Krepich, Leah Riter, Minli Zhang, Lingshuang Cai, Chengli Zu, Mingming Ma

**Tuesday 8/24/2021, 2:00:00 PM - 3:35:00 PM -- Kenneth A. Spencer Award, Takayuki Shibamoto**  
Tuesday 8/24/2021, 4:30:00 PM - 6:30:00 PM

Bioavailability & Environmental Relevance of Strongly Sorbed & Sequestered Chemicals

*Organizers:* W. Williams, Lai Gui, Xiao Huang, Marian Pointe

Wednesday 8/25/2021, 10:30:00 AM - 12:30:00 PM  
Wednesday 8/25/2021, 2:00:00 PM - 3:55:00 PM

Bioisosteric Replacement & Scaffold Hopping in Crop Protection Research

*Organizers:* Peter Maienfisch, Clemens Lamberth

Sunday 8/22/2021, 10:30:00 AM - 12:30:00 PM  
Sunday 8/22/2021, 2:00:00 PM - 4:00:00 PM  
Sunday 8/22/2021, 4:30:00 PM - 6:30:00 PM  
Sunday 8/22/2021, 7:00:00 PM - 9:00:00 PM

Design, Conduct & Reporting of Studies to Measure Exposure to & Effects of Chemicals on Pollinators in the Environment: Can it be Both Practical & Realistic?

*Organizers:* John Purdy, Jennifer Collins, Annie Krueger, Tom Steeger, Katrina White

Thursday 8/26/2021, 10:30:00 AM - 12:30:00 PM  
Thursday 8/26/2021, 2:00:00 PM - 4:00:00 PM  
Thursday 8/26/2021, 4:30:00 PM - 6:30:00 PM

Early Career Symposium: Advances in Vector Control & Insecticide Science

*Organizers:* Edmund Norris, Aaron Gross, Daniel Swale

**Tuesday 8/24/2021, 10:30:00 AM - 12:30:00 PM -- Innovation Award, Jeffrey R. Bloomquist**  
Tuesday 8/24/2021, 2:00:00 PM - 4:00:00 PM  
Tuesday 8/24/2021, 4:30:00 PM - 6:30:00 PM

Early Career Symposium: Chemical Communication between Living Organisms in Agricultural Systems

*Financially Sponsored by the journal, Agriculture  
Cosponsored by ENVIR, COMSCI*

*Organizers:* Nurhayat Tabanca, Kelsey Fisher, Kelsey

**Wednesday 8/25/2021, 10:30:00 AM - 12:00:00 PM -- NIA Finalist, Gareth Thomas**  
Wednesday 8/25/2021, 2:00:00 PM - 3:30:00 PM

Enhanced Agrochemical Applications through Surfactant, Formulation, & Colloid Technology

*Cosponsored by AGFD*

*Organizers:* Solito Sumulong, Ricardo Acosta Amado, Sasha Kweskin, Susannah Banziger

Tuesday 8/24/2021, 2:00:00 PM - 4:00:00 PM  
Tuesday 8/24/2021, 4:30:00 PM - 6:30:00 PM
Environmental Fate, Transport, & Modeling of Agriculturally-Related Chemicals

Financially Sponsored by Stone Environmental, Inc. and Intrinsik Corp.
Cosponsored by ENVR

Organizers: Scott Jackson, Ralph Warren
**Monday 8/23/2021, 10:30:00 AM - 12:30:00 PM -- NIA Finalist, Marla Bianca**
Monday 8/23/2021, 2:00:00 PM - 4:00:00 PM
Monday 8/23/2021, 4:30:00 PM - 6:30:00 PM
Monday 8/23/2021, 7:00:00 PM - 9:00:00 PM
**Tuesday 8/24/2021, 10:30:00 AM - 12:30:00 PM -- NIA Finalist, Zijiang Yang**

Everywhere but the Crop Field: Exploring Pesticide Use & Usage

Cosponsored by ENVR

Organizers: Leah Duzy, Tony Burd, Carlton, Ray Willard
- Thursday 8/26/2021, 10:30:00 AM - 12:30:00 PM
- Thursday 8/26/2021, 2:00:00 PM - 4:00:00 PM

Exposure: Approaches & Processes for Preventing, Detecting & Monitoring Agrochemical Contamination in the Environment

Cosponsored by ENVR

Organizers: Maura Hall, Joel Coats
- Sunday 8/22/2021, 10:30:00 AM - 12:30:00 PM
- Sunday 8/22/2021, 2:00:00 PM - 4:00:00 PM
- Sunday 8/22/2021, 4:30:00 PM - 6:30:00 PM

Feeding a Hungry World Amidst Varying Pesticide Regulations

Cosponsored by ENVR, AGFD, COMSCI

Organizers: Heidi Irrig, Jane Stewart, Carmen Tiu
- Thursday 8/26/2021, 10:30:00 AM - 12:30:00 PM
- Thursday 8/26/2021, 2:00:00 PM - 4:00:00 PM
- Thursday 8/26/2021, 4:30:00 PM - 6:30:00 PM

Genome Editing in Agriculture: Leveraging New Breeding Tools to Improve Crops & Their Production

Financially Sponsored by ACS Journal of Agricultural Science & Technology
Cosponsored by AGFD

Organizers: Martin Ruebelt, Maria Fedorova
- **Tools and Traits** - Wednesday 8/25/2021, 10:30:00 AM - 12:20:00 PM
- **Regulations and Public Acceptance** - Wednesday 8/25/2021, 2:00:00 PM - 3:50:00 PM
- Wednesday 8/25/2021, 4:30:00 PM - 6:30:00 PM

Good Laboratory Practices (GLP): How to Conduct Studies Under the Regulatory Environment

Cosponsored by AGFD, ENVR

Financially support by Society of Quality Assurance

Organizers: Jennifer Cypher, Johanna Mazlo, Barb Munch, Kim Watson
- Monday 8/23/2021, 4:30:00 PM - 6:15:00 PM
- Monday 8/23/2021, 7:00:00 PM - 9:00:00 PM
Human Health Paradigms: Exposure, Risk Assessment & Policies for Agrochemicals
Cosponsored by AGFD
Organizers: Cheryl Cleveland, Michael Krolski, Cecilia Tan, Katoria Tatum-Gibbs
   Wednesday 8/25/2021, 10:30:00 AM - 12:20:00 PM
   Wednesday 8/25/2021, 2:00:00 PM - 3:50:00 PM
   Wednesday 8/25/2021, 4:30:00 PM - 6:15:00 PM
   Wednesday 8/25/2021, 7:00:00 PM - 8:50:00 PM

Metabolite & Process Impurity Identification for Agrochemical Discovery
Organizers: Mingming Ma, Lingshuang Cai, Chengli Zu, Minli Zhang
   Sunday 8/22/2021, 4:30:00 PM - 6:30:00 PM
   Sunday 8/22/2021, 7:00:00 PM - 9:00:00 PM

Nontarget Analyses & Emerging Contaminants: Implications for Agrochemical Risk Assessment
Organizers: Robert Wauchope, Derek Muir, Elin Ulrich
   Intro. to Technology & Agrochemical Case Studies - Thursday 8/26/2021, 10:30 AM - 12:30 PM
   Agrochemical Case Studies - Thursday 8/26/2021, 2:00:00 PM - 4:00:00 PM
   Resources, Developments and Implications for Agrochemical Risk Assessment - Thursday 8/26/2021, 4:30:00 PM - 6:30:00 PM

Off-Target: Measurement & Management of Pesticide Drift & Volatility
Financially Sponsored by Stone Environmental, Inc. and Intrinsik Corp.
Cosponsored by AGFD, ENVR
Organizers: Frederick, Salzman, Jeffrey Perine
   Wednesday 8/25/2021, 4:30:00 PM - 6:00:00 PM
   Wednesday 8/25/2021, 7:00:00 PM - 8:30:00 PM

Practical Residue Analytical Methods for the Analysis of Samples from Environmental & Consumer Safety Related Studies
Financially Sponsored by Journal of Agricultural and Food Chemistry
Cosponsored by AGFD
Organizers: Manasi Saha, Steve Perez, Michael Conway
   **Monday 8/23/2021, 10:30:00 AM - 12:30:00 PM -- JAFC Award, David Steiner
Monday 8/23/2021, 2:00:00 PM - 4:00:00 PM

Process Research & Development in Crop Protection
Financially Sponsored by Corteva Agriscience
Cosponsored by AGFD
Organizers: Suhelen Vasquez Cespedes, Chao Wang, Helmars Smits
   Sunday 8/22/2021, 10:30:00 AM - 12:30:00 PM
   Sunday 8/22/2021, 2:00:00 PM - 4:00:00 PM

Sustainability in Agriculture: New Sources & Tools for the Development of Sustainable Crop Protection Solutions
Cosponsored by AGFD, ENVR
Organizers: Brittany Rauzan, Martin Walsh, Arvind Jaganathan, Benjamin Nugent
   Sunday 8/22/2021, 10:30:00 AM - 12:30:00 PM
   Sunday 8/22/2021, 2:00:00 PM - 4:00:00 PM
Unmanned Aerial Systems (aka Drones): Pesticide Spraying & Other Agricultural Applications  
Cosponsored by ENVR  
Organizers: Ross Breckels, Zhenxu Tang, Jeffrey Perine, Katrina White, John Whall  
Sunday 8/22/2021, 4:30:00 PM - 6:30:00 PM  
Sunday 8/22/2021, 7:00:00 PM - 9:00:00 PM

POSTERS

Sci-Mix  
Organizer: Qing Li  
Monday 8/23/2021, 8:00:00 PM - 10:00:00 PM

Agricultural Advances & Applications in Human Health & Technology  
Cosponsored by AGFD  
Organizer: Qing Li  
Tuesday 8/24/2021, 7:00:00 PM - 9:00:00 PM

Environmental Fate, Transport, & Modeling of Agriculturally-Related Chemicals  
Cosponsored by AGFD  
Organizer: Qing Li  
Tuesday 8/24/2021, 7:00:00 PM - 9:00:00 PM

Pesticides, Pollinators, & Crop Protection  
Cosponsored by AGFD  
Organizer: Qing Li  
Tuesday 8/24/2021, 7:00:00 PM - 9:00:00 PM

COSPONSORED SYMPOSIA

[AGFD] Sterling B. Hendricks Memorial Lectureship Symposium

[AGFD] AGFD JAFC Award Symposium

[ENVR] Toward Creating a Water-Energy-food Nexus Community of Practice: Symposium in honor of Prof. Rabi H. Mohtart

[ENVR] Sustainable Agriculture & Food Systems

[POLY] Fourth CME NASA Symposium: Chemistry for Reliable Human Space Exploration  
Cosponsored by CME, PRES