



Newsletter



PRESIDENT'S MESSAGE

Our society celebrated a great 59th annual meeting in New Orleans, Louisiana in February. It was a great success due to the mixture of science, graduate student activity, a good venue and great volunteers. We had a very well attended meeting with 519 attendees generating a total of 474 paper and poster submissions. Of those

519 attendees it is notable that 126 were students. In looking over the titles it would appear that just over half the papers were on integrated weed management, mechanical weed control, genomics and other non-herbicide centered weed control topics. I would venture to say that this would indicate that the WSSA members are increasingly working on a more holistic approach for weed management. This was the second annual national meeting with our new Executive Secretary and Meeting Manager, Eric Gustafson, and Interactive Management, Inc. As Meeting Manager, Eric did an awesome job and we look forward to a long and productive relationship with him and IMI. Dr. Mike Strain, Louisiana Commissioner of Agriculture, welcomed us to New Orleans and provided some great information on the diversity of agriculture in his state. I also learned that I do indeed want to go fishing with him! We had highly competitive poster and oral presentation contests for our graduate students. The future certainly is bright based on the performance of all these young folks. It took a substantial time investment from our judges and from our student contest chair, Marty Schraer. Thanks to these folks who are investing in our youth and our future. We had six exceptional and well attended symposia related to important and impactful subjects. These included: 1) Herbicide Resistant Weeds in Turf, Ornamental and Nursery Crops; 2) Integrated Weed Management to Address Weed Resistance; 3) Weather and the Environment: Understanding Basics to Address Off Target Pesticides; 4) Weed Seed in Grain Samples and Trade; 5) Global Perspective on Herbicides Being Banned; and 6) Ag Regulation as Affected by Urbanization of a Country. Thanks to all the symposium chairs and the Program Committee for helping put together a fantastic program.

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CALL FOR SYMPOSIA
2019 SYMPOSIA
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Thanks to the board members who have finished their service this year. It has been a joy to work with Janis McFarland (Past President) and Jess Bunchek (Graduate Student Member). Thanks to the great leadership and input both of these exceptional women have donated with their service to the WSSA Board of Directors. We have some great folks following them with Anita Dille (Vice President) and Nick Steppig (Graduate Student Member). We are welcoming others to WSSA service this year. A big thanks to Janis McFarland for stepping up and agreeing to chair the Science Policy committee. Greg Krueger has a full year under his belt as our EPA Liaison and by all accounts has been extremely busy with those duties along with his "day job" back in Nebraska. Donn Shilling has stepped down as the WSSA NIFA Fellow this year. Our new WSSA NIFA Fellow, Jim Kells, is in the process of working with Donn and making those critical contacts. Between our EPA Liaison, the NIFA Fellow, and Science Policy Representative, the WSSA is as well connected in Washington, DC as we ever have been. As always, thanks Lee Van Wychen for all that you continue to do for our society. One additional note on personnel changes is that Dallas Peterson is stepping down from being the WSSA CAST representative. We are currently looking for his replacement. Our next meeting will be a joint meeting with the Western Society of Weed Science and will be in Maui, Hawaii March 2 – 5, 2020. Bill Curran will be program chair and has sent out a call for symposia. Please be thinking of ideas to put forward. We are looking forward to another successful meeting. Finally, I would like to thank Scott Senseman, our Past President, for leading us this past year. Scott has been tirelessly working to move our society forward. Thanks for creating a great template for us to follow going forward. It is going to be a busy year. Growth regulator herbicide technology issues will certainly be at the forefront along with weed seed issues affecting trade. Legislatively, we are incredibly active. This connection will create many opportunities for our society to connect and to be a part of the conversation. Our membership is a strong and talented group of scientists. We will do our best to lead the scientific discussion toward positive outcomes on these important issues, but we will need your help in support as we go forward. I look forward to working with all of you this year. We will see you in Maui in March of 2020.

Larry Steckel
President, WSSA

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2020 Annual Meeting

Bill Curran, President-Elect

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WSSA FUTURE MEETING SITES AND DATES

March 2–5, 2020

60th Annual Meeting WSSA

73rd Annual Meeting WSWS

**Hyatt Regency Resort and Spa
Maui, Hawaii**

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Corey Ransom, Chair WSWS

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**WSSA HOME PAGE
ACCESSED AT:**

www.wssa.net

THINK NEWSLETTER

Deadline for July issue

June 1, 2019

SEND NEWSLETTER

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WSSA NEWSLETTER

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CALL FOR SYMPOSIA

2020 Joint Annual Meeting of the WSSA and the WSWS

**60th Annual Meeting of the Weed Science Society of America
73rd Annual Meeting of the Western Society of Weed Science
Hyatt Regency Resort and Spa, Maui, Hawaii • March 2–5, 2020**

We are really excited about the 2020 joint WSSA/WSWS annual meeting to be held at the Hyatt Regency in Lahaina, Maui, Hawaii on March 2–5, 2020.

WSSA/WSWS members are invited to submit proposals for symposia. **The proposal deadline is June 14, 2019.** The boards will evaluate the proposed symposia based on the justification, the target audience, publication plans and the completeness of the proposal agenda and budget. Symposia organizers are strongly urged to consider publication of the symposium papers in one of the WSSA's journals and publication will be one of the factors considered in selecting symposia for the meeting. We also encourage symposia organizers to consider building in a discussion period to help further increase audience participation. Because the meeting is in Hawaii and our hotel was limited space, both time and space will limit the number of symposia that we can accommodate.

Please see the guidelines listed below for symposia funding from WSSA. Requests for travel support can be made for non-members only.

Symposium proposals should be emailed directly to the WSSA Program Chair Bill Curran (williamscurran@gmail.com) and copied to the WSWS Program Chair Corey Ransom (corey.ransom@usu.edu) by June 14, 2019. *You should receive an email confirmation that your proposal has been received.*

If you have any questions, feel free to email or call Bill at (406) 570-2002.

SYMPOSIUM PROPOSAL

Outline of the Proposal Form 2020 Annual WSSAWSWS Meeting Maui, Hawaii

Title:

Organizers:

Contact Person:

Phone:

Email:

Justification and Objectives (approximately 300 words):

Target Audience:

Publication or Outreach Plans associated with symposium presentations:

Associated Section(s):

Length of Proposed Program:

Proposed Titles and Speakers:

Budget Requested: (Please specify the expenditure of the funds as opposed to submitting an overall amount. The more detailed the budget, the better the WSSA Board of Directors can evaluate the proposal.)

GUIDELINES FOR DISPOSITION OF WSSA FUNDS FOR SYMPOSIA EXPENSES

Funds are available to support symposia approved by the WSSA Board of Directors for the upcoming meeting. These funds can be used by the symposium organizers, working in conjunction with the Program Chair, for expenses incurred in securing speakers.

The following guidelines are intended to help the symposia organizers and the Program Chairs in allocating available funds. For a half-day symposium, the maximum allowable budget will be \$5000 of which up to \$1000 can be used for symposium publication costs. For a full day symposia, the maximum allowable budget will be \$6000 of which up to \$2000 can be used for symposium publication costs. The funds will be allocated as necessary to partially cover travel speaker expenses.

Members of the WSSA who agree to present symposium papers **will not** be offered travel funds except in extreme emergencies to be determined by the Program Chairs. An example of such a circumstance would be a WSSA member who is a renowned expert in the field of the symposia topic, but who has no source of funds to attend the annual meeting.

No honoraria will be offered to any speaker. No more than three nights lodging will be offered to non-member symposium speakers. All symposium speakers who are not members of WSSA will be offered free registration at the annual meeting and a free ticket to society events (other than tours) during that week. Funds for reimbursement of some, or all, travel expenses (travel, meals, and lodging) will be made available to non-member symposium speakers based on need, availability of funds, and the value of the speakers to the program.

Room rates at the Hyatt Regency Hotel for the 2020 meet-

CONTINUED on pg 4 >>>

CALL FOR SYMPOSIA CONTINUED from pg 3

ing will be \$245 per night plus taxes for students and start at \$269 per night plus taxes for regular members. If less than the maximum allowable funds (\$5000 for the half-day; \$6000 for a full day) are used for speaker travel expenses, the difference cannot be used for other purposes. Chairs should contact their intended speakers and determine their financial needs for participation. This information should be incorporated into the budget for the proposed symposium.

Symposium proposals must be submitted to the Program Chairs by **June 14, 2019**. The WSSA/WSWS Boards will evaluate the submitted proposals and decide which symposia will be funded. The WSSA Program Chair will inform the organizers of the symposia selected for funding. Sym-

posium organizers that receive funding can then proceed with offers of funding to non-member speakers. In no event should symposium organizers make commitments for more funding from WSSA greater than what was approved by the board. Symposium organizers are free to seek additional or alternate funding sources if symposia budget limits are insufficient to cover travel expenses for non-member speakers. Symposia organizers should consider publication of symposium papers in *Weed Science*, *Weed Technology* or *Invasive Plant Science Management*.

Bill Curran, 2020 Program Chair and
Corey Ransom, WSWS Program Chair



27th Asian Pacific Weed Science Society Conference

The 27th Asian-Pacific Weed Science Society Conference (APWSS 2019) will be held September 3–6, 2019 in Kuching, Sarawak, Malaysia. The theme will be “Weeds Science for Sustainable Agriculture and Environment.” This will be a significant event for researchers, practitioners and consumers to meet and discuss the development and challenges in weed management. This conference is jointly organized by APWSS and Malaysian Plant Protection Society (MAPPS). We are confident that you will enjoy the conference in Kuching, Malaysia’s beautiful city, and discuss new developments and future directions of weed management with weed scientists from around the world. Other details about the conference may be obtained from: <https://apwss.org/> or <https://www.apwss2019.org/>

The conference will cover a wide range of topics regarding weeds, invasive weeds and their management, weeds ecology, biology, physiology, integrated weed management in cropped areas, non-cropped areas and aquatic systems; herbicide tolerant crops, herbicide resistant weeds, allelopathy, biological weed control, impact of climate change on weeds and weed management, herbicide behaviour on soil and water, education and extension in weed science, herbicide formulations and application technology, novel herbicides and their mode of action, utilization of weeds, precision and advanced weed management technologies.

Keynote speaker is Professor Stephen Powles of The University of Western Australia, Perth, Australia, who will be making key note presentation on “Herbicide Resistance and its Management in Asian Pacific: Challenges and Opportunities.” The plenary presentations will be made by Professor Robert Zimdahl (U.S.A.) on “Agriculture’s Ethical Horizon: The Role of Weed Science in Sustainable Farming;” Professor Stephen W. Adkins (Australia) on “Impact of Climate Change on Weed Management;” Dr. Do-Soon Kim (South Korea) on “Plant Image Science (Plant Phenomics) as a New Tool for Weed Research;” Dr. Shiv Shankar Kaundun (U.K.) on Evolution and Non-Target Site Resistance Mechanism in Weeds; Dr. Michael D. Day (Australia) on “Biological Weed Control: Challenges and

Opportunity;” Dr. A.N. Rao (India) on “The Progress and Future of Weed Science in the Asian Pacific Region;” Dr. Samunder Singh (India) on “Ecobiology and Management of *Phalaris minor*.”

The abstracts of papers may be submitted online until 31 May 2019 at <https://www.apwss2019.org/>.

A.N. Rao
General Secretary, APWSS

The poster for the 27th Asian Pacific Weed Science Society Conference 2019 features a green and yellow color scheme. At the top, it says "FIRST ANNOUNCEMENT" in red. Below that, the APWSS logo is shown next to the text "27th Asian Pacific Weed Science Society Conference 2019". The dates and location are listed as "September 3-6, 2019 • Kuching, Sarawak, Malaysia". The central part of the poster contains several circular images of various weeds and plants. Below these images, the theme "Weed Science for Sustainable Agriculture and Environment" is written in green. At the bottom, it states "Organized by: Asian-Pacific Weed Science Society (APWSS) & Malaysian Plant Protection Society (MAPPS)". Logos for APWSS, MAPPS, and the Sarawak Convention Bureau are also present.

2019 WSSA AWARDS



Adam S. Davis
WSSA Fellow Award



Dallas E. Peterson
WSSA Fellow Award



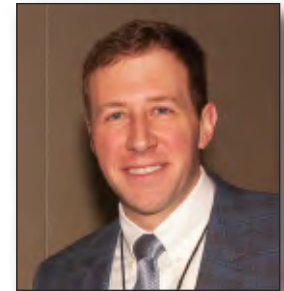
Stephen F. Enloe
Outstanding Extension Award



Bruce Maxwell
Outstanding Research Award



Thomas (Tommy) R. Butts
Outstanding
Graduate Student Award



Todd Gaines
Outstanding Early Career
Weed Scientist



Rakesh Jain
Outstanding Industry Award



Paul Tseng
Outstanding Reviewer Award
Weed Science



Caleb Dalley
Outstanding Reviewer Award
Weed Technology



Jacob Barney
Outstanding Reviewer Award
Invasive Plant Science and
Management



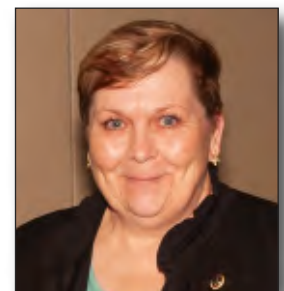
Karen A. Renner
Outstanding Teacher Award



Donn Schilling
WSSA Public Service Award



Pedro Jacob Christoffoleti
Honorary Membership



Pamela Cole Smith
Excellence in Journalism Award



Outstanding Paper Award, Invasive Plant Science and Management
Timing Aminopyralid to Prevent Seed Production Controls Medusahead (*Taeniatherum caput-medusae*) and Increases Forage Grasses

Matthew J. Rinella, U.S. Department of Agriculture-Agricultural Research Service
Not Pictured: Josh S. Davy, University of California Cooperative Extension; Guy B. Kyser, University of California-Davis; Fadzayi E. Mashiri, University of California Cooperative Extension; Susan E. Bellows, U.S. Department of Agriculture-Agricultural Research Service; Jeremy J. James, UC Sierra Foothill Research and Extension Center; Vanelle F. Peterson, Dow AgroSciences

Outstanding Paper Award, Weed Science
Genetically Engineered Herbicide-Resistant Crops and Herbicide-Resistant Weed Evolution in the United States

Andrew R. Kniss, University of Wyoming



Outstanding Paper Award, Weed Technology
iHSD Mill Efficacy on the Seeds of Australian Cropping System Weeds

Michael J. Walsh, University of Sydney
Not Pictured: John C. Broster, Charles Sturt University; and Stephen B. Powles, University of Western Australia



Adam Davis
Retiring Associate Editor,
Weed Science



Sid Abel
Advancement of
Weed Science Award

For more information on the awards:
<http://wssa.net/2019/02/weed-science-society-of-america-announces-2019-award-winners/>

The WSSA would like to thank Joseph Omielan, who generously volunteered his time and talents to furnish the photographs included in this Newsletter.

WSSA 2019 Student Contest Winners



Jess Bunchek



Mackenzie Bell



Kathryn Lillie



Taylor Randell



Haleigh Summers



Cynthia Sias



Kyle Russell



Eric Oseland



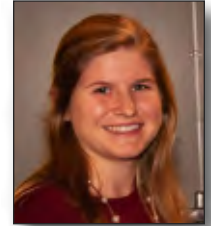
Damilola Raiyemo



Grace Flusche Ogden



Kayla Eason



Savana Davis



William Tubbs



Adam Striegel



Andrew Osburn



Nick Hurdle



Joseph Hunter



Lavesta Hand



Seth Abugho



Elizabeth Mosqueda



Hudson Takano



Olivia Todd



Mirella Ortiz



Zachary Lancaster



Frances Browne



David Walker



Denis Mahoney



Katie Driver



Bishwa Sapkota



Ramawatar Yadav



Nicholas Steppig



Eric Jones



Lucas Franca

Not Pictured:
Casey Bryan
Samer Rustom
Zachary Beres

More Photos From Our Annual Meeting



General Session Keynote
Mike Strain



Passing of the Gavel



World War II
Museum
Tour



Monday Awardee Reception and Social Hour



Poster Session



Monday General Session

WASHINGTON REPORT

by Lee Van Wychen, Director of Science Policy

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HOW DICAMBA'S VISIBILITY COULD CHANGE AG PESTICIDE USE FOREVER

Editorial by Emily Unglesbee, DTN Staff Reporter

ROCKVILLE, Md. (DTN) — Have you ever heard the phrase, “You can’t see that?”

I found it rolling through my mind as I watched university scientists display their latest research on dicamba at the Weed Science Society of America’s annual meeting in February.

These scientists are doing public studies examining exactly how dicamba behaves from the second it leaves a sprayer tip to the moment fine particles and vaporized gases drift out of field and are sucked into an air sampler stationed nearby. We’re learning, down to the nanogram, just how much of a chemical leaves a field in the hours and days following an agricultural pesticide application.

And we can’t unsee that.

For better or worse, the widespread use of dicamba is pushing an entire industry to scrutinize how herbicides behave, how they’re regulated, who suffers when they don’t stay put and how they affect trees, plants and even people.

For now, scientists are behind a lot of this scrutiny. The conclusions that are emerging on off-target dicamba movement are generally data-based and sound. But soon — perhaps this year, perhaps the next — the American public may take the wheel. Production agriculture’s chemical use could never be the same again.

DICAMBA WINDS OF CHANGE

Chemical drift is not a new problem in agriculture, but dicamba is especially visible. Minute amounts of dicamba can cause distinctive cup-

ping, strapping and crinkling on a wide range of vegetation, from soybeans to tomatoes and oak trees.

It’s easy to understand why some farmers are pushing for unrestricted access to dicamba herbicides. Herbicide-resistant weeds are a costly obstacle for many row crop operations, and as the Roundup Ready era demonstrated, herbicide-tolerant crops are a popular weed-control system.

But for many years, organic, non-GMO and specialty crop growers have paid the price for conventional agriculture’s heavy dependence on chemicals. Victims of spray drift bear nearly all the responsibility to investigate the damage, prove who and what chemical was at fault and hunt down compensation, usually in the courts. Organic growers can actually lose the organic certification they rely on for a livelihood when a herbicide drifts into their fields. In contrast, pesticide applicators usually encounter milder repercussions. Even when found at fault by a state investigation, applicators often face citations or fines as low as \$250 in some cases.

But that could be changing.

After a harrowing year dealing with widespread illegal dicamba applications, the state legislature of Arkansas passed a bill increasing the fee for illegal pesticide use up to \$25,000 per violation in 2017. Other states are mulling similar changes.

In a rather remarkable state of affairs, state departments of agriculture have also turned to 24(c) special local needs labels to restrict dicamba use beyond the EPA’s federal labels. This

use of 24(c) is rare and, some argue, not entirely legal, since this particular section of pesticide law was crafted for states to add additional uses of a chemical, not further police it. The situation speaks to a dangerously diminished federal regulatory agency. If fellow state regulators don’t trust the EPA to fully protect the environment, why should the public?

EPA is now considering ending states’ use of 24(c) to restrict pesticides, raising another concern: If states could no longer legally restrict dicamba as needed for their individual environmental concerns, how many would make the difficult decision to ban the chemical altogether?

Remember that those 24(c) state restrictions are in addition to some of the most complex pesticide labels the industry has ever seen. The new dicamba labels are filled with vague language and dozens of use restrictions that render legal use of the product nearly impossible. Indiana weed scientists estimated that applicators had only a handful of days in the entire month of June to apply these formulations legally last year — and that was before the latest round of label restrictions.

Why write labels that set applicators up to fail? Part of the problem is that spraying dicamba is inherently risky, and lawyers don’t like risk. The new dicamba labels essentially shift all legal liability from the manufacturers of these chemicals — and the agency who registered them — to the applicator. Now that this precedent is

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set, farmers and applicators should brace themselves for many chemical jugs of the future to bear this type of complex pesticide label.

THE WAR AGAINST AG CHEMICALS JUST GOT EASIER

Ultimately, dicamba's visibility may soon move this issue out of agriculture and regulators' domain, and into the public's. In August of 2018, I toured the small town of Waverly, Nebraska, with members of the Nebraska Forest Service. In a beautiful little recreation center called Wayne Park, tucked in among residential streets, nearly every tree we walked past bore the same distinctive signs — cupped, crinkled leaves and shrunken canopies. At nearby tree nurseries, we walked row after row of dicamba-damaged redbuds, Kentucky coffee trees and a wide range of oak trees.

Nebraska Forest Service landscape specialist Justin Evertson has been noticing herbicide injury to the state's trees for years, especially in the spring. But only now that dicamba has increased the visibility of this problem does he have funding available to study its long-term effects. For the next two years, led by South Dakota State University, Nebraska will join five other Midwestern states to conduct surveys of herbicide injury to trees in rural America.

Their findings will be public. And we won't be able to unsee them.

Agrichemical companies, regulators and farmers have perhaps one more year, maybe two, to take ownership and responsibility for off-target dicamba movement. After that, they may have to accept the consequences of an unsympathetic public calling the shots on this chemical's use.

Consider the recent public outcry over minute glyphosate residues found in our cereal and booze. The American consumer has shown little



A redbud tree leaf shows distinctive dicamba exposure symptoms at a nursery in eastern Nebraska, where herbicide injury has been more visible than usual in the past few years. Redbuds are among the most sensitive of tree species to off-target dicamba movement. (DTN photo by Emily Unglesbee)

appetite for ag chemical exposure, even miniscule amounts of relatively safe compounds. Air sampler data showing dicamba particles or vapors lingering in the air well outside agricultural fields for hours or even days will not be well received in the kitchens and playgrounds of this country.

The EPA conducted its usual human health risk assessments on the new dicamba formulations before registering them in 2016. (It declined to redo them when it reregistered the products in 2018.) But the agency's 2016 analysis relied on the assumption that the new formulations had very little volatility, so vaporized dicamba would not be a significant source of exposure for most people. University research on dicamba volatility is now calling that assumption into question. With 60 million acres of dicamba-tolerant crops predicted for 2019, University of Arkansas weed scientist Jason Norsworthy is warning of "atmospheric loading" of dicamba in the summer

months in areas of heavy dicamba use.

Questions about human health and safety are already arising. At DTN, we have fielded multiple calls from rural citizens and farmers, who are wondering and worrying how repeated exposure to vaporized dicamba affects them and their families.

No one has answers for them just yet. But they may soon — and it won't necessarily be weed scientists and qualified toxicologists doling them out.

Agriculture is an industry that has thrived and improved for decades by following new scientific information, from genetically modified crops to self-steering tractors. But sometimes science reveals things the industry doesn't want to know — such as how a chemical moves after it's applied and where it goes.

Let's not unsee any of this. Let's open our eyes wide, ask the difficult questions and follow the science where it leads us.

Emily Unglesbee can be reached at Emily.unglesbee@dtn.com
Follow her on Twitter @Emily_Unglesbee

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Recognition of Sidney W. Abel III for his career service supporting weed science, sound risk/benefit and environmental assessment, and product stewardship for herbicide resistant crops and companion herbicides on the occasion of his retirement from federal service.

Sidney W. Abel III served as the Assistant Deputy Administrator, Biotechnology Regulatory Services (BRS) of the USDA, Animal and Plant Health Inspection Service from June 2007 through December 2018. During this time he oversaw the day-to-day operations of the risk based introduction of regulated genetically engineered biotechnology organisms, including the introduction of plant made pharmaceutical and industrial plants as well as many herbicide- and pest-resistant plants, and the deregulation of biotechnology products under the Plant Protection Act. He led the program's overall compliance with the National Environmental Policy Act (NEPA) and domestic intergovernmental operations.

Prior to coming to APHIS, he served numerous positions at EPA, including more than two years as Associate

Director of the Office of Pesticides Programs' Environmental Fate and Effects Division, providing oversight of environmental and ecological risk assessments for the registration and re-registration of pesticides. Over his 30 years of experience as an environmental scientist he developed chemical and biological fate and transport assessments, surface and ground water exposure assessments, ecological exposure and risk estimates for pesticides, industrial chemicals and biologicals.

Sid has a Master of Science degree in Environmental Chemistry from the George Washington University and a Bachelor of Science degree from the University of Maryland. He is also a Master Gardener and devotes many hours of his spare time planting pollinator species and clearing invasive plants from the Middle Patuxent Envi-

ronmental Area in Howard County.

Significant contributions of time, effort, passion and support for grants under his supervision have led to noteworthy contributions in the advancement and communication of science in weed risk assessment, herbicide resistant weed evolution related to management practices (including those in crops engineered or selected for herbicide resistance), and have fostered greater coordination of information sharing to support assessments, regulatory decisions, and best management practices (BMPs) and stewardship for herbicides and crops with resistance to those herbicides.



2019 North American Weed Science Contest

The 2019 North American Weed Science Contest will be held on Thursday, July 25, 2019 at the BASF Midwest Research Farm, Midwest Ag Research Center of Valent, and Klein Farms near Seymour, Illinois. These facilities are approximately 10 miles from Champaign, IL. As with past contests, Wednesday, July 24th will be a travel day. Also, on the 24th, volunteers will meet at the site during the day to review the contest plots and finalize preparations. An orientation dinner will be held in the evening for all participants to communicate arrangements for the contest. The contest will run from 8:00 a.m. to 5:00 p.m. on Thursday, followed by an evening awards banquet at the Memorial Union Football Stadium on the main campus of University of Illinois Urbana-Champaign. Above right you will find links for team registration, volunteer registration, rules for the contest, including weed and herbicide lists; and hotel information with maps. If you have questions, please contact Dawn Refsell via email: dawn.refsell@valent.com.

We encourage you and your students to participate in this year's North American Weed Science Contest (NAWSC).

Team & individual registration: [2019 Weed Science Contest - Participant](#)

COACHES NEED TO REGISTER TEAMS AND INDIVIDUALS SEPARATELY!

Volunteer registration: [2019 Weed Contest Volunteer](#)

Participant Hotel information: [Hotel Info.pdf](#)

Volunteer Hotel information: [Volunteer Hotel Info.pdf](#)

[Hotel Directions.pdf](#)

Contest Rules and Additional Information can be found here: [National-Weed-Science-Contest.pdf](#)

The contest is an excellent opportunity for students to learn and interact with other students, faculty, and industry professionals. Please be sure to share this invitation with your students, colleagues, and other individuals who may be interested in participating. We look forward to seeing all of you at the contest in July.

2019 NAWSC Local Arrangements Committee
BASF, Valent, Corteva, Bayer

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CALENDAR OF UPCOMING EVENTS

DATE	EVENT	LOCATION	CONTACT
July 14–17, 2019	Aquatic Plant Management Society Annual Meeting (APMS)	Hilton Double Tree Mission Valley San Diego, California	www.apms.org
September 3–6, 2019	27th Asian Pacific Weed Science Society Conference	Kuching, Sarawak, Malaysia	https://apwss.org/ https://www.apwss2019.org/
November 18–21, 2019	Canadian Weed Science Society Annual Meeting (CWSS)	Delta Hotel Kelowna, British Columbia	www.weedscience.ca
December 10–13, 2019	North Central Weed Science Society Annual Meeting (NCWSS)	Hyatt Regency Hotel Columbus, Ohio	www.ncwss.org
January 6–9, 2020	Northeastern Weed Science Society Annual Meeting (NEWSS)	Philadelphia, Pennsylvania	www.newss.org
January 26–30, 2020	Southern Weed Science Society Annual Meeting (SWSS)	Beau Rivage Biloxi, Mississippi	www.swss.ws
March 2–5, 2020	Weed Science Society of America (WSSA) and the Western Society of Weed Science (WSWS) Joint Annual Meeting	Hyatt Regency Maui Resort and Spa Maui, Hawaii	www.wssa.net and www.wsweedscience.org

Additional Weed Science Meetings and Events can be found at <http://wssa.net/meeting/calendar-of-meetings/>

THINK NEWSLETTER
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