

# NCWSS • News

North Central Weed Science Society

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## Milwaukee, WI Welcomes the NCWSS December 3-6

The 73<sup>rd</sup> annual meeting will be held at the Hyatt Regency in Milwaukee, WI.



- ⇒ **Please visit the Annual Meeting page at <http://ncwss.org/annual-meeting/> to register for the Annual Meeting and make a hotel reservation.**
- ⇒ **Abstracts will be due on Friday, November 16, 2018. By this date, please enter the author information as indicated to access your oral or poster or presentation, cut and paste abstract, and submit.**
- ⇒ **Oral presentation PowerPoints should be uploaded by Monday, November 26, 2018.**
- ⇒ **Electronic program will be on the website soon**
- ⇒ **Program booklets will be available at registration**



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## Presidents Message - Christy Sprague



**Thank you for allowing me to serve as your 2018 North Central Weed Science Society President.**

It has been my honor and pleasure to work with all the dedicated volunteers and members that make the NCWSS such a successful organization.

For many, fall is a busy season with harvest and the planting of winter wheat and cover crops. Fall is also that time of year where many of us finally get the chance to organize and analyze all of the data that was collected from our research trials during the past season. The upcoming North Central Weed Science Annual Meeting provides us the perfect opportunity to share all this hard work from the past year.

This year will mark the 73<sup>rd</sup> NCWSS Annual Meeting. I look forward to seeing all of you at this meeting at the Hyatt Regency in Milwaukee, WI, December 3-6. The 2018 President-Elect and Program Chair, Aaron Hager, has been hard at work organizing all of the great paper and poster titles that have been submitted into an exceptional program for the 2018 meeting. This year's program will also feature some outstanding speakers and symposia that all attendees should plan on checking out. Organizing your time at this year's meeting will also be made easier with the use of the Guidebook App. This is the 3<sup>rd</sup> year that the NCWSS has used the Guidebook App and feedback from previous attendees and users has been extremely positive. As Aaron has been working on the program, the Local Arrangements Chairs, Richard Proost and Tim

Trower, and their Local Arrangement Committee have also been hard at work to make sure that all things at the meeting run smoothly. I would like to thank this group in advance for all their hard work. They are truly instrumental in making sure that we have a successful annual meeting. So if you have not registered yet for the 2018 meeting, I invite you to register and attend. I guarantee it will be one of the best meetings that you will have the opportunity to attend in the upcoming year.

In addition to the upcoming annual meeting, there have been some exciting things happening in the NCWSS. First, I would like to recognize our new Executive Secretary Kelley Mazur with IMI Group. Kelley started as our new Executive Secretary on April 14 and is doing an outstanding job in this role. In addition, Kelley has also helped bring the NCWSS into the Social Media world by actively posting on twitter @NCWeedScience. If you do not already follow the NCWSS twitter feed we encourage you to do so. The information posted on twitter helps keep NCWSS followers informed on what is happening in the society and also provides information on upcoming deadlines. Our greater presence in the Social Media world is thanks to our Communications Working Group, chaired by Renee Adler. This group has been very active and has met on a regular basis since the 2017 NCWSS Annual Meeting. I would like to thank Renee and the Communications Working Group for all their hard work during 2018.

One of the highlights of this summer was the 2018 NCWSS Collegiate Weed Science Contest. This year's summer contest was hosted at the Monsanto Water Utilization Learning Center in Gothenburg, NE on July 26. Our hosts, Dr. Brian Olson with Monsanto and Dr. Greg Kruger with the University of Nebraska, along with their teams put together an outstanding educational and professional development event for our graduate and undergraduate weed science students.

Congratulations to all that attended and a

*Continued Next Page*

## Presidents Message continued - Christy Sprague

special thank you goes to the hosts, volunteers, judges and coaches who helped make this year's contest a tremendous success.

As fall will soon be approaching an end, I look forward to seeing you in Milwaukee as we anticipate another successful NCWSS meeting. Encourage others to join you as well. Enjoy the rest of your fall!

Sincerely,  
Christy L. Sprague  
NCWSS President

## 2018 Annual Meeting Information from the Program Chair Aaron Hager

The 73<sup>rd</sup> annual meeting of the North Central Weed Science Society (NCWSS) soon will convene and we have a great venue and program planned. The meeting will be at the Hyatt Regency in Milwaukee, Wisconsin from December 3<sup>rd</sup> through December 6<sup>th</sup>. Richard Proost and Tim Trower, co-chairs of the Local Arrangements Committee, along with their dedicated team have been busy working with the hotel staff to ensure we will have a terrific meeting.

The 2018 program will maintain several of the program changes made during 2017. The graduate and undergraduate papers will be presented on both Tuesday afternoon and Wednesday morning with student paper and poster awards presented Wednesday evening at Society Social. Poster sessions are scheduled for Tuesday morning and Tuesday evening. Also in 2018, the "What's New in Industry" session will be held Thursday, December 6 from 8:30 – 10:15 a.m. following the Industry breakfast. Dr. Andy Kendig, NCWSS Industry Chair, has provided more information about this session and the industry breakfast in an article appearing in this newsletter.

### Upcoming Deadlines

#### Abstracts and Presentation Submissions

Abstracts must be submitted by **Friday, November 16, 2018**. By this date, please enter the author information as indicated to access your oral or poster presentation, cut and paste the abstract, and submit. Abstracts are to be submitted through the same system as title submission (<http://wssaabstracts.com>). Sign into your account as you did previously for the title submission. Click on the link to submit an abstract. Scroll down to the abstract part of the window and click anywhere in the area designated to hold the abstract. Cut and paste your abstract into the box provided. Develop an abstract in a word processing program. There is no need to include the title or authors in the "cut and paste" portion since the correct information already has been entered. We recommend that you make all changes prior to pasting into the submission form. NOTE: If you make any changes to the title or authors, please email both the section chair and program chair ([hager@illinois.edu](mailto:hager@illinois.edu)) to alert us about the change.

#### Oral presentations

PowerPoint files should be uploaded by **Monday, November 26, 2018**. We request all oral presentation authors upload their slides to the submission website at least one (1) week / seven (7)

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# 2018 Annual Meeting Information from the Program Chair Aaron Hager (continued)

days prior to the meeting (i.e., **Monday, November 26, 2018**). This allows section chairs to preload the presentations on their computer and make sure that all presentations are working adequately. By using the submission website we can ensure that the section chairs receive your slides. If you are unable to meet this deadline, please contact your section chair one week prior to the meeting to make other arrangements.

## 2018 Program Highlights

### General Session

This year's general session will feature two keynote presentations. Our first keynote presentation will provide a warm welcome to the great state of Wisconsin. The second keynote presentation will feature Dr. Allan Felsot, professor and Extension Specialist at Washington State University, who will provide an interesting perspective on some of the current issues surrounding glyphosate. We also will hear from NCWSS President Dr. Christy Sprague as she shares her NCWSS Presidential Address.

### Symposia

We are excited to have four symposia scheduled for the 2018 meeting.

Communication within and beyond scientific societies is a critical component within the weed science discipline. The symposium "Essential Communication in Weed Science: Within and Beyond our Society" will feature an excellent group of presenters who will share their communication experiences and strategies. This symposium will be held Wednesday morning, December 5.

Recently, the weed science community has invested considerable time and resources to investigate and understand how atmospheric conditions impact herbicide applications. The symposium "Atmospheric Conditions for Making On-Target Herbicide Applications," scheduled for Wednesday afternoon, will feature perspectives from experts both within and outside the weed science community who will enhance the understanding of temperature inversions, wind speeds, and particle drift.

Wednesday afternoon, a special graduate student symposium is being held. "Making Data Meaningful: A Guide to Presenting Data at Scientific Meetings" is a two-hour symposium that will include speakers discussing appropriate statistical analysis in their respective area of weed science expertise (20 minutes each), followed by "roundtable rotations" with each speaker where students rotate among tables for one-on-one conversations. Students are encouraged to bring a copy of the statistics used during their poster or paper presentations that could serve as a discussion starter at the roundtable. This symposium will occur after all student presentations are completed so as to encourage all students to attend.

The final symposium will be the ever popular "What's New in Industry" that will highlight new products and technologies. This symposium will be held on Thursday, December 6 from 8:30 – 10:15 a.m.

### Student Activities

Monday evening, December 3, starting at 6:30 p.m. BASF will sponsor a Student Mixer. This event features a quiz bowl, great networking opportunities, and an all-around goodtime. We hope to see everyone there.

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## 2018 Annual Meeting Information from the Program Chair Aaron Hager (continued)

The Graduate Student Luncheon and Business Meeting sponsored by Corteva Agriscience will be held Tuesday, December 4 from noon to 1:15 p.m.

The undergraduate and graduate student poster contests will be held Tuesday, December 4 during both the morning and evening poster sessions. If you are a student please be at your poster for both sessions.

The graduate student paper contest will occur during the Tuesday afternoon and Wednesday morning paper sessions.

Wednesday afternoon there is a graduate student symposium titled, "Making Data Meaningful: A Guide to Presenting Data at Scientific Meetings."

Award winners for the undergraduate and graduate student paper and poster contests will be recognized at the Wednesday evening Society Social starting at 5:30 p.m. in the Regency Ballroom C&D.

Students are invited to participate in the Thursday morning's Industry breakfast starting at 7:00 a.m. Student tickets are sponsored by Syngenta.

### **Awards Luncheon and Social**

Join us as we recognize and celebrate with our new NCWSS Fellows and Distinguished Achievement Award winners at the NCWSS Awards Luncheon on Wednesday, December 5, with Dr. Bill Simmons serving as the luncheon emcee. Also, please join us that evening for the all Society Social at 5:30 p.m. in the Regency Ballroom C&D. This event is sponsored by our sustaining members and is open to all.

### **Committee Meetings**

Several committee meetings are scheduled throughout the conference, and we welcome your participation and input. These meetings are open to all NCWSS members, and your help and ideas are very important in helping to guide future of our society. Please see the program for committee times and meeting rooms.

## Women in Weed Science Anita Dille

To all NCWSS members:

Our fifth annual "Women in Weed Science" networking breakfast will be on Wednesday, December 5 from 6:30 to 8:00 am at the 2018 NCWSS meeting in Milwaukee, WI. All female attendees, including graduate and undergraduate students, spouses, and all academic and industry professionals, are invited to participate in this networking opportunity. Please register on the NCWSS web site at the Annual Meeting link so we can be sure to have a seat and food (no charge) for you.

Sincerely, Anita Dille

## Industry Andy Kendig

The annual Industry breakfast will be Thursday Morning, December 6 (see program for location). Our speaker this year is Ms. Janice Person, from Bayer. Janice is currently the Online Engagement Director at Bayer. At Monsanto, she was instrumental in developing social media programs where employees are encouraged to have their own 1:1 discussions non-agricultural persons regarding food safety and environmental concerns. This program is a follow up to last years presentation from Kevin Folta on social media and represents an alternative and powerful method of using social media to impact the non-agricultural public. The Industry breakfast is open to all members of NCWSS regardless of academic or industry affiliation. Graduate students are especially encouraged to attend.

Following the breakfast, the normal “Industry updates” section will be held (see program for location). In this section sustaining members of the NCWSS provide quick updates of changes with their companies and their portfolio. These presentations are voluntary; however, they often include important label updates as well as progress on the development of new weed control technologies.

If you wish to become a sustaining member contact Andy Kendig ([andy.kendig@adama.com](mailto:andy.kendig@adama.com)) and Kelley Mazur ([kelley@imigroup.org](mailto:kelley@imigroup.org)) ASAP. Please indicate if you intend to present in the Industry Update session, and who should receive the complimentary registration. In 2018 the sustaining membership levels were changed as indicated below. Sustaining membership dues support numerous critical society functions including reduced student fees for the Industry breakfast and the Weed Contest. In addition, when you become a sustaining member, you will receive an individual registration to attend the NCWSS meeting.

Sponsorship Level	Annual Contribution	Sponsorship Benefits
Gold	\$3,500+	-Complimentary registration for the official representative at the annual NCWSS meeting - Recognition of the company as a GOLD sponsor at the NCWSS Annual Meeting, invitation to the “What’s New in Industry” session, and acknowledgement of support in most publications
Silver	\$1,750	-Complimentary registration for the official representative at the annual NCWSS meeting - Recognition of the company as a SILVER sponsor at the NCWSS Annual Meeting, invitation to the “What’s New in Industry” session, and acknowledgement of support in most publications
Bronze	\$600	- Complimentary registration for the official representative at the annual NCWSS meeting - Recognition of the company as a BRONZE sponsor at the NCWSS Annual Meeting, invitation to the “What’s New in Industry” session, and acknowledgement of support in most publications

## Video Contest Debalin Sarangi

The North Central Weed Science Society decided to sponsor the video contest again this year to provide students an opportunity to showcase their research and/or extension projects. **Videos should be submitted to one of two categories: 1) Research or 2) Extension/Education.**

Submission in the research category should include videos from basic weed science research (greenhouse/field/laboratory research) conducted by a student. Extension/education submissions may present applied research-based information that is relevant to the agriculture or horticulture professional audiences, growers, consultants, and other stakeholders. Videos should be prepared in a professional manner and approved by student's faculty advisor. **Videos will be limited to 5 minutes and will be judged based on the grading rubrics attached to the email. Each contestant can enter two videos (one in each category) and can win only one award.** Videos will be judged by a committee and winners will be awarded at the NCWSS annual meeting in December.

**Videos should be submitted to the Chair of Extension Committee, Debalin Sarangi, by end of business, Monday, November 5, 2018. Please submit the videos via the file-sharing system (e.g. Dropbox) and notify the Chair of your submission via email ([dsarangi2@tamu.edu](mailto:dsarangi2@tamu.edu)). In the same email, the presenter should also mention whether they are giving permission to the NCWSS to publish their videos on the society webpage and YouTube channel in the future.**

Feel free to contact me if you have any question. Thank you!

Debalin Sarangi  
402-416-6647



### **Congress Punts Farm Bill Until After the Elections**

The Farm Bill conference committee composed of 47 House members and 9 Senators, could not reach agreement on a compromise between the House- and Senate-passed Farm Bills before the House adjourned on September 28. The House is not scheduled to return to business until November 13, a week after the midterm elections.

There are parts of the House bill and parts of the Senate bill that we'd like to see make it into the final conference agreement. For the House bill, this includes a legislative fix for the duplicative National Pollutant Discharge Elimination System (NPDES) program permits, a Congressional repeal of the 2015 Waters of the United States (WOTUS) rule, legislative guidance to streamline the FIFRA-Endangered Species Act consultation process, and reauthorization of the Pesticide Registration Improvement Act (PRIA). A provision in the Senate bill we'd like to see passed is the reauthorization for the Foundation for Food and Agriculture Research (FFAR).

### **Five of 12 Appropriations Bills Approved, but Not Ag**

As of September 30, five of the 12 annual appropriations bills have been completed. These include: 1) Military Construction and Veterans Affairs; 2) Energy and Water; 3) the Legislative Branch; 4) Labor, Health and Human Services, and Education; and 5) Defense. Congress still must approve appropriations bills related to: 1) Agriculture; 2) Commerce, Justice, and Science; 3) Financial Services; 4) Homeland Security; 5) Interior and Environment; 6) State and Foreign Operations; and 7) Transportation and Housing and Urban Development (T-HUD).

For the remaining seven appropriations bills, Congress approved a continuing resolution (CR) that will keep the federal government funded through December 7, 2018. Lawmakers had hoped to bundle the Agriculture, Interior-Environment, T-HUD and Financial Services bills into one minibus package, but progress slowed in the past month due to differences between the House and the Senate on specific funding levels and certain policy riders. It remains to be seen if agreements can be worked out during the lame duck session after the midterm elections.

### **Hutchins Nominated as USDA Chief Scientist**

Dr. Scott Hutchins, the Global Head of Integrated Field Sciences for Corteva was nominated by the White House on July 16 for the role of USDA Under Secretary for Research, Education and Economics, which is also referred to as USDA's Chief Scientist. If confirmed by the Senate, he will oversee the operations of ARS, NIFA, NASS, and possibly ERS. Hutchins has a Ph.D. in entomology from Iowa State University, where he studied the effect of insect-induced injury on alfalfa. Hutchins has a bachelor's degree in entomology from Auburn University and a master's degree from Mississippi State University. Presently, he works on pest management chemicals at Corteva and is an adjunct professor at the University of Nebraska. He is a past President of the Entomological Society of America.

### **Angle Nominated as USDA NIFA Director**

The White House nominated Dr. J. Scott Angle to be Director of the National Institute of Food and Agriculture (NIFA) at USDA on August 31. Dr. Angle is currently President and CEO of the International Fertilizer Development Center (IFDC). He worked for 24 years as a professor of soil science and administrator for the Maryland Agricultural Experiment Station and Maryland Cooperative Extension at the University of Maryland. He also served as Dean and Director of the College of Agricultural and Environmental Sciences at the University of Georgia for 10 years. He is a Fellow at the American Society of Agronomy and the Soil Science Society of America. Dr. Angle earned his Ph.D. in soil microbiology from the University of Missouri.

### **USDA NIFA, ERS Moving from DC**

On August 9, USDA announced that the National Institute of Food and Agriculture (NIFA) and Economic Research Service (ERS) will be moving from D.C. While the new location for the agencies has yet to be determined, the timeframe for the move is expected to occur by the end of 2019.

USDA said it was undertaking the relocations for three main reasons:

- To improve USDA's ability to attract and retain highly qualified staff with training and interests in agriculture, many of whom come from land-grant universities. USDA has experienced significant turnover in these positions, and it has been difficult to recruit employees to the Washington, DC area, particularly given the high cost of living and long commutes.

- To place these important USDA resources closer to many of stakeholders, most of whom live and work far from the Washington, DC area.

- To benefit the American taxpayers. There will be significant savings on employment costs and rent, which will allow more employees to be retained in the long run, even in the face of tightening budgets.

## Washington Report - Continued

USDA's announcement of intent to move the agencies has garnered many concerns from the ag research community, including WSSA. Some of our concerns about moving NIFA out of the National Capitol Region (NCR) include:

- Isolating NIFA from stakeholders (commodity groups, agricultural leaders, university administrators, academic scientists). Stakeholder leaders routinely travel to the NCR to meet with legislators and many other agencies. If NIFA is located outside the NCR, it will become more difficult for many stakeholders to visit NIFA, and many stakeholders would incur additional travel expenses and inconvenience to do so, making these trips less frequent. How does USDA envision maintaining strong stakeholder input?
- Isolating NIFA from other research agencies (i.e. NSF, DOE). Increased inter-agency collaboration is needed in order to address the major scientific challenges facing agriculture. For example, herbicide-resistant weeds can now be found on over 100 million acres in the U.S. New technologies like robotics with computer vision and machine learning algorithms for intelligent weed removal are likely to play a role in addressing this challenge. Innovations like these will require transdisciplinary research in agriculture, engineering and computer sciences. How does USDA envision strengthening these needed collaborations if NIFA is located outside the NCR?
- Loss of NIFA personnel who are unable to move will likely disrupt productivity and take considerable time to fully re-staff. How long does USDA anticipate it will take to build back to full staffing? How will USDA assure program continuity and minimize disruption during this transitional period?
- Potential conflict of interest with land grant universities near the new location. For example, would a NIFA location in Missouri favor grants to agricultural commodities prevalent in Missouri? How does USDA envision maintaining an unbiased prioritization and proposal review process?

### **2,4-D Task Force Update**

The [Industry Task Force II on 2,4-D Research Data](#) is a joint research venture that funds the Good Laboratory Practice (GLP) research studies required to support the registration and registration review of 2,4-D in the U.S. and Canada.

Check out Brad Hanson and Tim Miller's analysis of [Orchard, Vineyard, Hops, and Soft Fruit Production](#). They examine 2,4-D's unique fit in production systems that use grass cover crops between rows of perennial fruit and nut trees.

Scott Nissen at Colorado State University examines the [aquatic uses](#) of 2,4-D, concluding that if were 2,4-D unavailable, state government agencies would have to either increase their budgets for aquatic weed control by a factor of 13, or drastically reduce the acreage protected.

Finally, Nelson-Schneider Consulting has assembled detailed information on the properties, characteristics, effectiveness and trade-offs of [Amine and Ester formulations](#). Moreover, they lay out how drift can be managed through proper selection.

### **Farm Bureau Seeks National WOTUS Injunction**

The American Farm Bureau Federation and other business groups are asking a Georgia district court for a nationwide injunction on the Obama administration's Waters of the United States (WOTUS) rule. There is shifting patchwork of states where the 2015 WOTUS Rule is currently at play. As of September 28, there were 22 states plus the District of Columbia not covered by one of three different district courts' injunctions (federal courts in North Dakota, Georgia, and Texas).

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## Washington Report - Continued

States not covered by a stay of 2015 WOTUS rule are: CA, CT, DE, HI, IL, ME, MD, MA, MI, MN, NH, NJ, NY, OH, OK, OR, PA, RI, TN, VT, VA, WA

### **Excellent CAST Issue Paper: “Genome Editing in Agriculture”**

On July 9, CAST released its newest publication, [Genome Editing in Agriculture: Methods, Applications, and Governance](#). Science Policy Committee Chair and WSSA-NIFA Fellow Donn Shilling and I attended one of the Washington DC roll out sessions where Dr. Adam Bogdanove from Cornell, lead author and Task Force Chair, gave a great overview on the current status of gene editing, including policy implications. The issue paper describes how genome editing is performed, the types of “edits” that can be made, how the process relates to traditional breeding and conventional genetic engineering, and the potential limitations of the approach.

### **Interior Rolls Out Reorganization Plan**

On August 29, Interior Secretary Ryan Zinke announced the Department of the Interior’s (DOI) plan to reorganize its bureaus into 12 “unified regions.” The proposed management re-design establishes new regional divisions based on the boundaries of states and watersheds (see map).

The proposal has been under development for several months. “Our new Unified Regions will allow important decisions to be made nearer to where our stakeholders and intergovernmental partners live and work, and will make joint problem-solving and improved coordination between our Bureaus and other Federal, State, and local agencies easier,” stated Secretary Zinke.

The 12 unified regions will replace the 49 individual Interior Bureau regional boundaries. Secretary Zinke said that the reorganization will “reduce bureaucratic redundancy, will improve communication between our experts in the field and leaders in Washington, D.C., and will allow us to share our knowledge and resources more effectively.”

Each new region will be managed under a “Regional Leadership Team”, an idea outlined by Susan Combs, acting Assistant Secretary for Policy, Management and Budget for DOI. Combs described Alaska as a model for operations under the reorganization plan. “We started with a pilot in Alaska, because it’s one state that has all the bureaus, it already has a legislative framework that requires federal and state agencies to work together,” said Combs. “So, they are working away on inter-bureau collaboration.”

The plan applies to all Interior agencies, except the Bureau of Indian Affairs, the Office of the Special Trustee for American Indians, and the Bureau of Indian Education. Whether these agencies are eventually aligned with the new regional boundaries will be determined after tribal consultation.

### **New Cover Crops and Water Quality Fact Sheets Available**

In a review of 98 publications, staff from USDA’s Sustainable Agriculture Research & Education (SARE) program and the University of Missouri identified how cover cropping influences soil and nutrient losses from agricultural fields, water infiltration, and soil organic matter. [Cover Crops and Water Quality](#) resources include five fact sheets, three infographics and a PowerPoint presentation template that can be downloaded and used for outreach and educational purposes.

Lee Van Wychen, Ph.D.

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Phone: 202-746-4686

## 2018 Summer Weed Contest



The 2018 North Central Collegiate Weed Contest was held on July 26 at the Monsanto Water Utilization Learning Center near Gothenburg, NE. The contest was co-hosted by Monsanto and University of Nebraska-North Platte. Special thanks to Brian Olson from Monsanto (now Bayer CropScience) and Dr. Greg Kruger from University of Nebraska and the MANY individuals that helped from both organizations to make it a huge success. Pictures from the contest can be found at: (<http://ncwss.org/photos/>)

**Congratulations to all contest competitors and winners!**

### Team Awards:

Graduate Team	Undergraduate Team
1 <sup>st</sup> Place – Purdue University Marcelo Zimmer Nick Steppig Brent Mansfield Jesse Haarmann	1 <sup>st</sup> Place – Kansas State University Sarah Zerger Peter Bergkamp Keren Duerksen Trent Frye
2 <sup>nd</sup> Place – University of Wisconsin-Madison Lindsay Chamberlain Sarah Striegel Nikola Arsenijevic Derek Potratz	2 <sup>nd</sup> Place – Iowa State University Andrew Blomme Hailey Daufeldt Becca Johnson Heather Wilson
3 <sup>rd</sup> Place – University of Illinois Christopher Landau Daljeet Dhaliwal Seth Strom Conner Sible	3 <sup>rd</sup> Place – Kansas State University Kaylin Fink Dakota Came Hayden Heigele Oakley Kauffman

### Individual awards:

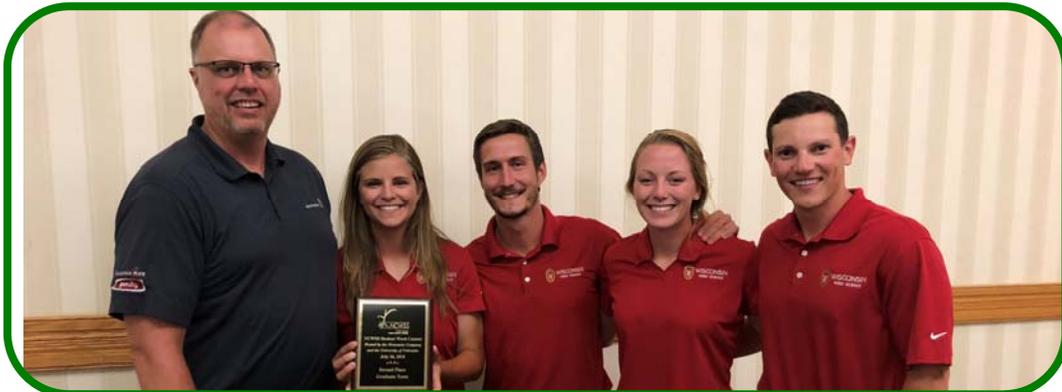
Graduate Division	Undergraduate Division
<b>Overall Graduate Individual</b> 1 <sup>st</sup> place – Marcelo Zimmer, Purdue University 2 <sup>nd</sup> place tie – Seth Strom, University of Illinois 3 <sup>rd</sup> place - Jesse Haarmann, Purdue University	<b>Overall Undergraduate Individual</b> 1 <sup>st</sup> place – Sarah Zerger, Kansas State University 2 <sup>nd</sup> place – Keren Duerksen, Kansas State Univ. 3 <sup>rd</sup> place – Ben Westrich, Purdue University
<b>Written Calibration –</b> Aaron Brooker, Michigan State University	<b>Written Calibration -</b> Andrew Blomme, Iowa State University
<b>Unknown Herbicide Identification –</b> Seth Strom, University of Illinois	<b>Unknown Herbicide Identification –</b> Sarah Zerger, Kansas State University
<b>Farmer Problem –</b> Seth Strom, University of Illinois	<b>Farmer Problem –</b> Sarah Zerger, Kansas State University
<b>Weed Identification –</b> Nikola Arsenijevic, University of Wisconsin	<b>Weed Identification –</b> Keren Duerksen, Kansas State University
<b>Team Calibration – Michigan State University</b> Aaron Brooker Scott Bales John Schramski Kaitlin Blaine	<b>Team Calibration – Kansas State University</b> Sarah Zerger Peter Bergkamp Keren Duerksen Trent Frye

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# 2018 Summer Weed Contest



**1<sup>st</sup>  
Graduate  
Team**  
**Purdue  
University**



**2<sup>nd</sup>  
Graduate  
Team**  
**University of  
Wisconsin**



**3<sup>rd</sup>  
Graduate  
Team**  
**University of  
Illinois**

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# 2018 Summer Weed Contest (continued)



**1<sup>st</sup>**  
**Undergraduate  
Team**

**Kansas State  
University**

**1<sup>st</sup>**  
**Team**  
**Calibration**



**2<sup>nd</sup>**  
**Undergraduate  
Team**

**Iowa State  
University**



**3<sup>rd</sup>**  
**Undergraduate  
Team**

**Kansas State  
University**

**Congratulations to all the participants!!**

## Meetings of the National and Regional Weed Science Societies

**Dec. 3 - 6, 2018** North Central Weed Science Society (NCWSS), Milwaukee, WI  
[www.ncwss.org](http://www.ncwss.org)

**Jan. 7 - 10, 2019** Northeastern Weed Science Society (NEWSS), Baltimore, MD  
[www.newss.org](http://www.newss.org)

**Feb. 3 - 7, 2019** Southern Weed Science Society (SWSS), Oklahoma City, OK  
[www.swss.ws](http://www.swss.ws)

**Feb. 11 - 14, 2019** Weed Science Society of America (WSSA), New Orleans, LA  
[www.wssa.net](http://www.wssa.net)

**Mar. 11 - 14, 2019** Western Society of Weed Science (WSWS), Denver, CO  
[www.wweedsociety.org](http://www.wweedsociety.org)

**Jul. 14 - 17, 2019** Aquatic Plant Management Society (APMS), San Diego, CA  
[www.apms.org](http://www.apms.org)