



# Western Society of Weed Science Newsletter

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Spring 2015

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## Report from the President by Joe Yenish

First, I want to give great thanks to all who, through their efforts and diligence, ensured the success of the 68<sup>th</sup> annual meeting in Portland in planning and conducting the meeting. The city of Portland provided a stunning backdrop for the exchange of ideas, discussion of topics, or just reconnecting with old friends. The vast landscapes and landmarks of the west, such as the view of Mt. Hood, Mt. Adams, and Mt. St. Helens, help make our regional society and meetings unique among those in North America.

At the President's reception on Monday evening, we recognized two retirees, Bill Kral, DuPont Crop Protection and Dan Ball, Oregon State University and a past WSWS president. Congratulations to both these two and thanks for your efforts on behalf of our academic society.

Somewhat unique to this meeting, presentations began on Monday afternoon with the symposium on plant diagnostics. The timing of the symposium relative to the rest of the meeting was intended to provide valuable information and appeal to weed management practitioners of the region. Please let us know your thoughts on the timing of the symposium if you get a chance.

This year, 19 oral and 19 poster presentations were made as part of the student paper contest. Thanks to each of the students that participated. Thanks also to the judges who volunteered their time to evaluate the competitors. I continue to be amazed at the number of people who step up each year when the request for judges goes out.

A total of 132 (78 oral; 54 posters) were presented at this year's annual meeting. Ed Davis, Research Section Chair, along with the project chairs and moderators prepared the meeting rooms and kept the sessions running smoothly and on time. Additionally, there were some very productive discussion sessions as part of each of the projects. Kirk Howatt, Education and Regulatory Chair, and incoming Chair Sandra McDonald organized a great presentation and discussion session on providing education and informational responses to incidents of concern related to pesticides. The popularity and success of this session has resulted in discussion of a symposium for the next annual meeting in Albuquerque, New Mexico. As mentioned earlier, Bill Cobb in conjunction with Kassim Al-Khatib, kicked off the meetings on Monday with a symposium on plant diagnostics. The coordination of the poster session was handled well by the committee chaired by Harold Quicke and Local Arrangements Committee Chair Dan Curtis.

The Presidential Address was delivered by Drew Lyon. Drew provided an overview of the current health of the organization and efforts to maintain or increase attendance and participation in our society meetings. He also presented information on the status of Weeds of the West. Lee Van Wyche provided an update on recent federal legislation affecting agriculture, including the current budget situation along with the framework of the USDA's efforts in education and research within the various agencies and projects. Additionally, he discussed the need to provide a definition of "super weed," in response to popular media attention on herbicide resistance. Lee also provided a brief update and discussion of the administrative rule to clarify Waters of the U.S. (WOTUS).

Dr. Michael Barrett of the University of Kentucky, currently serving as WSSA Liaison to the USEPA followed with an update of his efforts in the latter position. Mike is the first non-WSWS member to serve in the role of WSSA EPA Liaison.

The general session concluded with two informative and educational presentations. The first focused on the development of the wine industry of the Pacific Northwest, by Dr. Joan Davenport of Washington State. Dr. Davenport discussed the history of

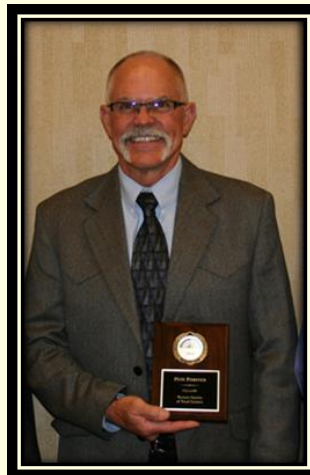
growing both wine and nonwine grape types in the region and the recent popularity of the various wines produced today. The second equally informative presentation was on the background and potential for robotic aircraft in agricultural production with a focus on the western U.S.

While there is a strong sense of satisfaction and relief to observe the success of the Portland meeting, it is great to see the program committee is already off and running to ensure the same or greater success for the 2016 WSWS meeting in Albuquerque. Please feel free to send any suggestions to improve our society's efforts to Kirk Howatt or myself. Thank you for allowing me to serve as the president of this great society.

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## WSWS 2015 Fellow Awards – by Tim Miller

**Pete Forster** is a Senior Scientist in charge of product evaluation with Syngenta Crop Protection at Greeley, Colorado, where he has been stationed since 2000. Prior to this position, Pete was with Ciba in Sanger, California, beginning in 1988. He has presented many times at WSWS as well as at NCWSS. He has also contributed on the WSWS Sustaining Membership (2008-2010) and Site Selection (2013-Present) committees. Pete has been the Syngenta contact for the Graduate Student and Spouse Breakfasts at the WSWS Annual Meeting (2000-2010), coordinated multiple other sponsored events at Annual Meeting (2010-Present), and helped judge the Graduate Student Contests several times. Pete has served on the WSWS Board of Directors as Secretary (2003-2004) and Member-at-Large (2011-2013) and was named the WSWS Outstanding Weed Scientist in 2009.



**Gil Cook** is currently a private consultant with Cook Ag Science Expertise in Spokane Valley, Washington. Most of our membership will remember Gil as serving with DuPont Crop Protection from 1976 until his retirement in 2004. Since then, Gil has conducted private research with BASF, Dow, DuPont, FMC, Gowan, Helena, NovaSource, Wilbur-Ellis, Walla Walla Farmers Co-op, and Loveland and has conducted trainings on herbicide resistance and forensic pathology. With DuPont Crop Protection, Gil received the Achievement Award (1984), the Leadership Award (1988), the Environmental Excellence Award (1992), the Project Stewardship Award (Sulfonylurea Herbicides) (1998), and the Accomplishment Award (2002). He was also one of the Washington State Weed Association's Honorary Members (1992) and Weed Warrior (2003). With WSWS, Gil has presented many times at the Annual Meetings and has served on the Necrology (1992-1994), Finance (1994-1996), Student Educational Enhancement (1996-1997), and Local Arrangements (1999-2001) committees. Gil was elected Chair of the Education and Regulatory Committee in 1998 and was the WSWS President in 2003.



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#### Public Relations

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## Student Liaison Report - by Carl Coburn

We had a great meeting in Portland with just under 40 students attending the meeting to present their research. Many students participated in the poster and paper contest, and we would like to congratulate the contest winners for your excellent work. The WSWS also offers the Outstanding Students Scholarship Program, designed to promote student attendance and attract new students to the meeting. We would like to congratulate the 2015 Outstanding Student Scholarship award winners, and encourage more students to apply for the scholarship this fall.

The Student Silent Auction was a success, and we raised over \$2,000 to help fund the student scholarship program for the upcoming year. The success of the silent auction was made possible thanks to the donations and bids on items. A special thanks to BASF, Bayer, Dupont, Dow, Valent, Syntech Research, The California Olive Oil Association, Dr. Joe DiTomasso, Stephen Colbert, Dr. Clyde Elmore, and many others who supported this program. This was the fourth silent auction and because of its success, we will continue this project next year. We hope you will continue to provide support as we continue to expand on the success of this year's silent auction.

This year Marcelo Moretti concluded his term as student liaison, and will now continue his PhD work at UC Davis. Many thanks to Marcelo for his dedication to the WSWS, and I hope to follow the excellent example he has set. Be sure to congratulate Breanne Tidemann at the University of Alberta in Edmonton who was elected as the new Student Liaison Chair-Elect. Breanne and I will be working to increase the involvement of students on the WSWS board as well as organizing the 2016 silent auction.

For the students, please make sure to answer the e-mail survey. Your opinion and comments are very important to improve the experience for WSWS students. Keep an eye on your mailboxes for comments and scoring for the student paper and poster contest. Also, if you would like to get more involved with the society, we would gladly accept help preparing for the upcoming meeting.

You can also like us on Facebook (Western Society of Weed Science Student Section) or follow us on twitter @WSWSstudents. Feel free to share some information about your research on our social media pages! Breanne ([blaturnu@ualberta.ca](mailto:blaturnu@ualberta.ca)) and I ([ccoburn2@uwyo.edu](mailto:ccoburn2@uwyo.edu)) welcome suggestions and comments regarding the student events, the annual meeting, the silent auction, or any other student activities.

Carl Coburn, Student Section Chair  
[ccoburn2@uwyo.edu](mailto:ccoburn2@uwyo.edu)

Breanne Tidemann, Student Section Chair (elect)  
[blaturnu@ualberta.ca](mailto:blaturnu@ualberta.ca)

## Elena Sanchez Memorial Scholarship

This year there were nine excellent applications for the Elena Sanchez Memorial Scholarship.

Three graduate students were provided \$1,000 each to support travel to the WSWS meeting. The awardees were Kelli Belmont, University of Idaho; Breanne Tidemann, University of Alberta; and Vipin Kumar, Montana State University. We encourage all graduate students who have not previously received the award to apply next year.



## Awards Committee Report— by Carol Mallory-Smith, Richard Arnold, Alan Helm

### Brian Mealor - Outstanding Early Career Weed Scientist



**Brian Mealor** is an Assistant Professor & Extension Weed Specialist who joined the University of Wyoming in 2009. Brian is innovative in all aspects of his position including research, extension and teaching. His program focuses on the interaction between native and invasive plants, strategic weed management and cost-effective methods of managing invasive weeds in rangeland ecosystems. His efforts are focused on developing and improving management strategies to reduce the ecological and

economic impacts of invasive weeds, on weed management strategies to restore disturbed rangelands and on understanding the resilience of native plant communities to biological invasion. He was the Director of Stewardship for The Nature Conservancy in Wyoming from 2007-2009. Brian has developed high-quality extension materials including a *Cheatgrass Management Handbook* and the *The Wyoming Weed Watchlist* field guide. Students in his *Invasive Plant Ecology* course contributed chapters to field guide. Brian presented more than 130 extension presentations in the past 5 years. He is an outstanding teacher who has participated in the Southwest Noxious Weed Short Course, the DuPont Invasive Plant Management Webinar Series, and the American Youth Leadership Program in Mongolia. Brian is an active member of the WSWS and served as the chair of the WSWS Finance Committee in 2012-2013. He and his students have presented papers and posters at the WSWS meetings. Brian has received a number of awards including the Outstanding Young Range Professional from the Society of Range Management in 2013 and Outstanding Advisor in 2012. He served as President of the Wyoming Section of the Society of Range Management.

### Brent Beutler - Outstanding Professional Staff

**Brent Beutler** is a Research Support Scientist at the University of Idaho Aberdeen Research and Extension Center. Brent has worked with Dr. Pamela Hutchinson on weed control in potatoes for more than 10 years. In cooperation with Dr. Hutchinson, Brent oversees much of the field work conducted in the program. Brent is creative and innovative; he built a small plot chemigation system that can treat one plot at a time with precise amounts of water and herbicide. Brent has been especially important in the success of research being conducted to develop a weed management plan for the trap crop, Litchi tomato (*Solanum sisymbriifolium*), used for control of the pale cyst nematode. He has been involved in developing weed control in the trap crop and well as controlling the trap crop so that it does not become weedy. He coordinated the on farm research for this project and worked closely with other agencies such as USDA-ARS, USDA-APHIS and the Idaho State Department of Agriculture. There was little information about the trap crop and Brent has been important in increasing the knowledge about the Litchi tomato. Brent has presented papers at the WSWS and the Potato Association of America. He has co-authored seven journal papers, 74 scientific notes/research reports and 25 proceedings/abstracts.



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WSWS ONLINE EDUCATION  
<http://passel.unl.edu/pages/index2col.php?category=weedscience#>

WSSA Journals Website Online  
[www.WSSAJournals.org](http://www.WSSAJournals.org)

## CALENDAR OF EVENTS

### Western Invasive Weed Short Course

April 20-23, 2015  
Loveland, Colorado  
[www.mountainwestpest.com/ShortCourse.html](http://www.mountainwestpest.com/ShortCourse.html)

### NACB 27

June 2-3, 2015  
Penn State Univ.  
University Park, PA  
<http://agsci.psu.edu/nabc>

### 17<sup>th</sup> European Weed Research Symposium

June 23-26, 2015  
Montpellier, France  
<http://ewrs2015.org/>

### National Weed Contest

July 20-21, 2015  
Ohio State University  
[www.swss.ws/contest-hosted-university/links](http://www.swss.ws/contest-hosted-university/links)

### 18<sup>th</sup> International Plant Protection Congress

August 24-27, 2015  
Berlin, Germany  
<http://www.ippc2015.de/>

### 25<sup>th</sup> Asian Pacific Weed Science Society Conference

October 13-16, 2015  
Hyderabad, India  
<http://isws.org.in/apwssorganisers.aspx>

### Weed Science Society of America Annual Meeting Joint Meeting with the Southern Weed Science Society

February 8-11, 2016  
San Juan, Puerto Rico  
[www.wssa.net](http://www.wssa.net)

### Western Society of Weed Science Annual Meeting

March 7-10, 2016  
Albuquerque, New Mexico  
[www.wsweedscience.org](http://www.wsweedscience.org)

### 7<sup>th</sup> International Weed Congress

June 19-25, 2016  
Prague, Czech Republic  
<http://www.iwsc2016.org/>

## Second Circular



Website: <http://isws.org.in/apwss2015.aspx>



### Organized by:

**Indian Society of Weed Science**

### In collaboration with:

**Indian Council of Agricultural Research  
Directorate of Weed Research  
PJT State Agricultural University**



The Indian Society of Weed Science has the honor of organizing the 25<sup>th</sup> Asian-Pacific Weed Science Society Conference, which is scheduled to be held at The Professor Jayashankar Telangana State Agricultural University, Hyderabad, India, October 13-16, 2015.

For more information: <http://isws.org.in/apwssorganisers.aspx>

Dr. A.R. Sharma  
Organizing Secretary, 25<sup>th</sup> APWSS Conference

[iswsjbp@gmail.com](mailto:iswsjbp@gmail.com) or [sharma.ar@rediffmail.com](mailto:sharma.ar@rediffmail.com)

## Retirees and Senior Weed Scientists Social Hour



During the recent WSWS meetings in Portland, a group of senior and retired weed workers gathered Tuesday evening at the Hilton Hotel for a reunion. All of these people are or were members of the WSWS at one time. From left to right: Gil Cook, Bill Cobb, Rick Boydston, Alex Ogg, Bob Parker, Dick Comes, Roland Schirman, Bill Anliker, Kassim Al-Khatib, Arnold Appleby, John Orr, Kurt Volker, Pam Hutchinson, Frank Young, Bob Stougaard, Dan Ball, Ralph Whitesides, Carol Mallory-Smith, Monte Anderson, and Donn Thill.

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## 2015 Student Paper and Poster Awards by Don Morishita

The 2015 WSWS Student Paper Contest included 17 poster presentations and 18 oral presentations. All of the students who participated are to be commended for their excellent presentations. As has been done previously, the students with poster and oral presentations were each divided into two groups. According to the rules of the student paper contest, the number of winning places in the four groups varied from two to three, depending on the number of students in each group.

Poster presentations represented in the Weeds of Range and Natural Areas, Weeds of Horticultural Crops, and Weeds of Agronomic Crops projects had two winners. First place was Derek Sebastian from Colorado State University. His winning poster was titled *Comparing Indaziflam and Imazapic for Downy Brome and Feral Rye Control in Range and Pasture*. Second place winner in the same group was Alan Raeder, Washington State University. His poster was *Field Carryover of Pyroxulam, Sulfosulfuron, and Florasulam to Lentil, Chickpea, Canola, and Barley in the Inland Pacific Northwest*. The other group of posters represented the Basic Biology and Ecology project. First place winner was Curtis Hildebrandt from Colorado State University and his poster was *Green Ash and Honey Locust Response to Aminocyclopyrachlor*. Second place winner was Gabriel Flick, Oregon State University and his poster was *Impact of Seed Burial Depth on Radish Seedling Emergence*. And third place winner was Triston Hooks, New Mexico State University. His poster was *Salinity Responses of Three Invasive Lepidium Species*.

In the oral presentations, the students were divided into two groups with the first group consisting of presentations from the following projects: Weeds of Range and Natural Areas, Weeds of Horticultural Crops, Basic Biology and Ecology. First place winner was Marcelo Moretti, University of California Davis. His presentation was *Mechanism of Glyphosate and Paraquat Resistance in Conyza Species*. Second place winner was Nevin Lawrence, Washington State University and his presentation was *Genetic Variation of Downy Brome from Small Grain Production fields in the Pacific Northwest*. Third place winner was William Rose, University of Wyoming and his paper was *A Novel Method for Removing Downy Brome Contaminants from Reclamation Seed*. The second group of oral presentations were in the Agronomic Crops project. First place winner was Thomas J. Schambow, University of Wyoming and his paper was *The Effects of Simulated Weed Canopies on Sugarbeet Growth*. Second place winner was Christopher Van Horn, Colorado State University and his paper was *Molecular Basis of Glyphosate Resistance and the Rapid Necrosis Response in Giant Ragweed*.

Appreciation is expressed to all of the judges who contributed their time and energy in compiling scores of each of the presenters in the oral and poster presentations. Appreciation is also expressed to Ryan Rector for filling in due to the unexpected absence of the committee chair.

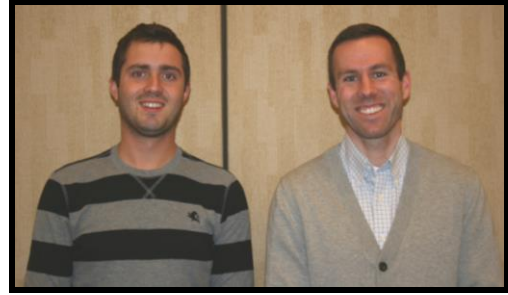
## Student Paper Contest Winners

### Weeds of Range and Natural Areas, Weeds of Horticultural Crops & Basic Biology and Ecology



- 1<sup>st</sup> - **Marcelo Moretti**, University of California, Davis  
2<sup>nd</sup> - **Nevin Lawrence**, Washington State University, Pullman  
3<sup>rd</sup> - **William Rose**, University of Wyoming, Laramie  
(Not pictured)

### Weeds of Agronomic Crops



- 1<sup>st</sup> - **Thomas Schambow**, University of Wyoming, Laramie  
2<sup>nd</sup> - **Christopher Van Horn**, Colorado State University, Fort Collins

## Student Poster Contest Winners

### Weeds of Range and Natural Areas, Weeds of Horticultural Crops, & Weeds of Agronomic Crops



- 1<sup>st</sup> - **Derek Sebastian**, Colorado State University, Fort Collins  
2<sup>nd</sup> - **Alan Raeder**, Washington State University, Pullman

### Basic Biology and Ecology



- 1<sup>st</sup> - **Curtis Hildebrandt**, Colorado State University, Fort Collins  
2<sup>nd</sup> - **Gabriel Flick**, Oregon State University, Corvallis  
3<sup>rd</sup> - **Triston Hooks**, New Mexico State University, Las Cruces  
(not pictured)

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Mark your calendar - The 2<sup>nd</sup> Global Herbicide Resistance Challenge "Challenge Accepted" will be held May 14-18, 2017 in Denver, Colorado, USA.

The 1<sup>st</sup> Global Herbicide Resistance Challenge was held February 18-22, 2013 in Perth, Australia. More than 300 scientists from 38 countries representing industry, government, universities, and non-governmental organizations attended the very successful 1<sup>st</sup> Global Challenge.

The GHRC 2017 Organizing Committee is working hard to create another successful conference. Hope to see you there!

**GLOBAL** HERBICIDE  
RESISTANCE  
CHALLENGE

Denver, Colorado, USA  
May 14-18, 2017

## 2015-2016 WSWS Officers and Executive Committee



Seated: Jane Mangold, Sandra McDonald, Kirk Howatt, Joe Yenish, Drew Lyon, Brian Jenks  
Standing: Ed Davis, Prashant Jha, Phil Banks, Marty Schraer, Michael Hubbard, Curtis Rainbolt, Corey Ransom, Carl Coburn, Scott Nissan  
Not Pictured: Phil Westra and Breanne Tidemann

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### A Note from the Business Office by Phil Banks

If you did not attend the past meeting in Portland, Oregon and have not done so already, you should renew your WSWS membership for 2015. You can do this by logging into your account at the website ([www.wsweedsociety.org](http://www.wsweedsociety.org)) and clicking on the Current Member Renewal under the Membership tab. You can also renew by sending me a check for \$ 30.00 along with your name and current contact information (form is included in this Newsletter). If you have changed address, job, phone number, or e-mail address, please take the time to update your information. Let me know if you have any questions or need additional information.

If you need to contact the office, please give us a call at (575) 649-7157 or e-mail at [wsws@marathonag.com](mailto:wsws@marathonag.com).

Phil Banks, WSWS Business Manager/Treasurer

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### Reminder from the Necrology Committee – Steve Valenti, Chair

This past year three members of the Society have passed away – John Nalawaja, Kent McKay, and Earl Spurrier. Their obituaries have been included in the 2015 WSWS Proceedings and maybe viewed on the website ([www.wsweedsociety.org](http://www.wsweedsociety.org)).

If you are aware of any WSWS members who have recently passed away please notify Steve Valenti ([stephen.a.valenti@monsanto.com](mailto:stephen.a.valenti@monsanto.com)) or the Business Manager, Phil Banks ([wsws@marathonag.com](mailto:wsws@marathonag.com)) so that we may remember them appropriately at the next meeting in Albuquerque. Additionally, we would like to encourage anyone interested in serving on this committee to please volunteer. The committee is comprised of three members and the second year member will be the chair. The committee is responsible for obtaining the information (obituary or biography) on those members who have passed, keep the President of the society notified, and prepare a written report to be presented at the Society Business Meeting.





POSTER SESSION



ROBOTIC AIRCRAFT



RETIRES RECEPTION



DAN BALL



STUDENT AUCTION TABLE



BRET CHILOTT EXPLAINS AG EAGLE  
ROBOTIC AIRCRAFT OPERATIONS



LEE VAN WYCHAN



PRESIDENT JOE YENISH &  
IMMEDIATE PAST PRESIDENT  
DREW LYON



RETIRES RECEPTION

## **Bayer CropScience Acquires Certain DuPont Crop Protection Land Management Business Assets, Enhances its Vegetation Management Leadership Team, and Makes Key Hires to Add Strength to Growing VM Business.**

Monheim, Germany, Wilmington, Delaware, and Research Triangle Park, North Carolina, USA, – Bayer CropScience has completed the acquisition of certain DuPont Crop Protection Land Management assets in the United States, Canada, Mexico, Australia and New Zealand. The transaction closed on December 1, 2014, following receipt of required antitrust approvals.

The acquisition significantly boosts Bayer CropScience’s non-agricultural pest and weed control business. “We are striving to further expand the leadership position of Environmental Science, and this acquisition is a milestone which underlines our growth ambitions,” said Bayer CropScience CEO Liam Condon. “Through this acquisition we become a leader in Vegetation Management in North America and globally and will continue to build a best-in-class, innovative platform for future product launches and risk management solutions.”

To better serve the vegetation management (VM) industry with top talent, Environmental Science, a division of Bayer CropScience LP, announced the team of professionals who will lead the company’s growing VM business. Following the recent Bayer acquisition of strategic DuPont Land Management assets, Norman Barclift and David Spak are both taking on new roles with the Bayer VM business – Barclift as head of marketing and Spak as stewardship and development manager. Mathew Nespeca will continue to serve as head of commercial operations and Michael Bisciegli as western sales manager for the VM business.

“The new and stronger Bayer VM business is uniquely positioned to deliver the next generation of VM innovation and risk management solutions,” said Mark Schneid, chief marketing officer for Environmental Science North America. “As Bayer expands its role as a market leader in the VM industry, we are continuing to invest in building a world class team designed to add critical value to our customers and the markets we serve.”

Environmental Science, a division of Bayer CropScience LP, announced its expanded team of vegetation management professionals who will bring new value to distributor and end-user customers and to the industry. Key hires include Danial Zapotok, VM product manager; Steve Williams, eastern sales manager; Jason Belcher, eastern regional stewardship manager; and a team of thirteen sales professionals.

“We are committed to bringing our customers innovative solutions to challenges they face in the ever-changing vegetation management industry,” said Matt Nespeca, head of commercial operations for the Bayer VM business. “We are thrilled to welcome to our growing team these proven industry leaders who will help arm vegetation management professionals with the tools they need to be successful.”

To learn more about Bayer solutions for industrial vegetation management, please visit [www.BackedByBayer.com](http://www.BackedByBayer.com).

*Bayer CropScience is committed to bringing new technology and solutions for agriculture and non-agricultural uses. For questions concerning the availability and use of products, contact a local Bayer CropScience representative, or visit Bayer CropScience online at [www.bayercropscience.us](http://www.bayercropscience.us).*

## Legislative Committee Report – by Chad Clark

Here are the reports the legislative committee was able to get from the folks that volunteered their time and expertise. The reports are ranked alphabetically by state followed by the person who reported and the legislation they are following. At the Business Meeting in Portland, Marty Schraer approached the committee with a list of contacts compiled by the WSWs Board of Directors from the states that did not respond to the original request. The committee will follow up with those contacts.

### Alaska – Brianne Blackburn:

- HB 20: Ban/limit neonicotinoid pesticides
- HB 38: Relating to the rapid response to, and control of aquatic invasive species and establishing the aquatic invasive species response fund.
- HB 53: Use of Pesticides and Broadcast Chemicals near fish habitat and water used for human consumption and on state land.

### California – David Pegos:

- CA has no introduced legislation yet that deals with invasive species that we are tracking.

### Hawaii – Becky Azama:

- No Report

### Kansas – Scott Marsh:

- We are following SB 134 – Amendments to the noxious weed law and HB2329 – Creating a program to research the use of industrial hemp.

### Montana – Dave Burch:

- HB-525-Revise aquatic invasive species fund laws
- HB-553-Generally revise aquatic invasive species laws
- HB-167-Generally revise off-highway vehicle laws

### Nebraska – Bobbie Wickham:

- Nothing to contribute.

### Nevada – Jamie Greer:

- In 2013 – 2014 season the NDA received petition from Pacific Northwest Seed Growers for removal of mayweed chamomile from NV Noxious Weed List.
- In the last 2 years, we have had a lot more pressure to enforce our state noxious weed statutes. In 2014 we did first state initiated abatement.
- We have in session now AB 77 in Nevada that looks at cleaning up our current noxious weed statutes for Nevada in NRS 555.

### Oklahoma – Jeanetta Cooper:

- Oklahoma does not have any weed legislation or support at this time.

### South Dakota – Brandon Beshears:

- In South Dakota we don't have any legislation this session affecting weed & pest or pesticide issues. We did have a bill for the Department of Ag that revises some of the statutes, but that was some housekeeping in our code.

### Washington – Alison Halpern:

- HB 1375: Concerning criminal trespass on private property.
- SB 5769: Concerning the management of noxious weeds on state lands.
- SHB 1654: Controlling noxious weeds while still supporting pollen-rich forage plant communities for honey bees.

### Wyoming – Josh Shorb:

- S.F. No. 0012 Trespassing to collect data.

# WASHINGTON REPORT

April 1, 2015  
Lee Van Wychen

## **Superweed Definition Unanimously Approved**

At the recent WSSA meeting in Lexington, Kentucky, the Board of Directors unanimously approved the following definition for “superweed”

***Superweed:** Slang used to describe a weed that has evolved characteristics that make it more difficult to manage due to repeated use of the same management tactic. Over-dependence on a single tactic as opposed to using diverse approaches can lead to such adaptations.*

*The most common use of the slang refers to a weed that has become resistant to one or more herbicide mechanisms of action ([www.weedscience.org](http://www.weedscience.org)) due to their repeated use in the absence of more diverse control measures. Dependence on a single mechanical, biological, or cultural management tactic has led to similar adaptations (e.g. hand-weeded barnyardgrass mimicking rice morphology, dandelion seed production in a regularly mowed lawn, knapweed resiliency to gall fly biocontrol).*

*Two common misconceptions about a superweed are that they are the result of gene transfer from genetically altered crops and that they have superior competitive characteristics. Both of these myths have been addressed by the Weed Science Society of America (WSSA) at: [www.wssa.net/weed/wssa-fact-sheets](http://www.wssa.net/weed/wssa-fact-sheets). WSSA has created a variety of free educational materials and recommendations concerning herbicide resistance and how to avoid it, available at: [www.wssa.net/weed/resistance](http://www.wssa.net/weed/resistance).*

## **FY 2016 USDA Appropriations**

The administration released its FY 2016 budget request at the beginning of February. Things look pretty good for USDA budget items overall with NIFA, ARS, NRCS, the Economic Research Service (ERS), and National Ag Statistics Service (NASS) all receiving higher budget requests compared to FY 2015 that was just passed in December. Within USDA-NIFA, the Agriculture and Food Research Initiative (AFRI) grants program was recommended for a large increase from \$325 million to \$450 million. Many of USDA-NIFA’s capacity building programs also were recommended for increases compared to FY 2015, including the Hatch Act increasing from \$244 million to \$256 million and Smith Lever 3b and 3c increasing from \$300 million to \$304 million. FY 2016 funding for the IR-4 program (\$11.9 million) and the Crop Protection and Pest Management line item (\$17.2 million) would remain as in FY 2015.

## **House Ag Committee Passes “NPDES Fix” Bill**

On March 19, the House Agriculture Committee passed [The Reducing Regulatory Burdens Act of 2015 \(H.R. 897\)](#). This legislation has passed the U.S. House as a stand-alone bill in two previous sessions of Congress but failed in the Senate. H.R. 897 clarifies congressional intent and eliminates the duplicate regulatory requirement of a National Pollutant Discharge Elimination System (NPDES) permit for the use of herbicides in, over, or near waters of the United States that are already approved for use under FIFRA. This stems from the problem created in 2009 by a three-judge Court of Appeals Ruling for the Sixth Circuit. The 2009 court ruling invalidated a 2006 EPA regulation exempting pesticide applications that are in compliance with FIFRA from a requirement to also comply with NPDES permits.

## **Milkweed and Monarchs**

The Fish and Wildlife Service (FWS) was petitioned by three environmental groups last August that claimed that extensive use of glyphosate on glyphosate resistant corn and soybeans in the Midwest has devastated native populations of milkweed, the sole source of food for monarch butterfly larvae. The petitioners claim that monarch butterfly populations have decreased 90 percent over the past 20 years. FWS is reviewing the status of the monarch butterfly to consider if it needs federal intervention under the Endangered Species Act (ESA). However, if we actually want to see monarch butterfly numbers rebound, listing it under the ESA is a bad idea as the ESA has a terrible track record for promoting species recovery. Along those lines, Monsanto has taken a proactive approach by contributing

\$3.6 million over three years to the National Fish and Wildlife Foundation (NFWF) Monarch Butterfly Conservation Fund. The \$3.6 million will be used to match funds provided by FWS and other federal agencies that will support habitat restoration, education, outreach, and milkweed seed production to benefit monarch butterflies. To learn more about the Monarch Butterfly Conservation Fund, visit [www.nfwf.org/monarch](http://www.nfwf.org/monarch). In addition to its commitment to NFWF's Monarch Butterfly Conservation Fund, Monsanto will provide approximately \$400,000 in grants to other organizations working to protect biodiversity through both immediate and long-term actions.

### **Washington Post – We Don't Need Labels on Genetically Modified Foods**

In a March 29 editorial by the Washington Post, the editorial board discusses the false balance between scientific consensus and fear mongering in the GM food debate. They state "The GM-food debate is a classic example of activists overstating risk based on fear of what might be unknown and on a distrust of corporations." The editorial can be found at: [http://www.washingtonpost.com/opinions/we-dont-need-labels-telling-us-our-food-has-been-genetically-modified/2015/03/29/66f97f4a-d4c5-11e4-8fce-3941fc548f1c\\_story.html](http://www.washingtonpost.com/opinions/we-dont-need-labels-telling-us-our-food-has-been-genetically-modified/2015/03/29/66f97f4a-d4c5-11e4-8fce-3941fc548f1c_story.html).

### **USDA Stakeholder Workshop on Coexistence**

USDA recently conducted a two day stakeholder workshop to advance an understanding of agricultural coexistence – the concurrent cultivation of conventional, organic, identity preserved (IP), and genetically engineered (GE) crops consistent with farmer choices and consumer preferences – and discuss opportunities for making coexistence more achievable for all stakeholders. The workshop was organized around three sessions: 1) the current state of affairs of coexistence; 2) knowledge gaps, challenges, and USDA's responses so far to the AC21 recommendations; and 3) additional steps USDA is considering to respond to the challenges. Webcasts of the workshop as well as copies of workshop's presentations and summaries of USDA activities that are either newly proposed or already underway to support of coexistence—are available for public viewing on the USDA Stakeholder Workshop on Coexistence Web page: <http://1.usa.gov/1CCWEXU>. There is a ton of information provided there, but I would like guide your attention to two excellent presentations in particular regarding USDA and EPA actions on herbicide resistance weeds:

**U.S.D.A. Actions to Address Herbicide Resistance in Weeds:** Jill Schroeder, Ph.D, USDA Office of Pest Management Policy

**EPA's Perspective on Herbicide Resistance in Weeds:** Jack Housenger

Lee Van Wychen, Ph.D.

Science Policy Director - National and Regional Weed Science Societies

[Lee.VanWychen@wssa.net](mailto:Lee.VanWychen@wssa.net)

cell: (202) 746-4686

[www.wssa.net](http://www.wssa.net)

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## **2015 Presidential Award of Merit – Carol Mallory–Smith**

Carol Mallory-Smith received the WSWS Presidential Award of Merit from Drew Lyon at the 2015 annual meeting in Portland, Oregon. Carol has not only provided the WSWS with outstanding service by serving on the Board of Directors and on numerous committees, she has also served the broader weed science community as President and Treasurer of the Weed Science Society of America and Secretary-Treasurer of the International Society of Weed Science. Carol has directed the graduate studies for 32 students. She has published more than 100 refereed journal articles and eight book chapters. She has given 30 invited professional presentations and she is a member of the National Research Council's Committee on Genetically-Engineered Crops. Carol has served our society well and she is a very deserving recipient of this award.





AWARDS LUNCHEON



BRIAN MEALOR RECEIVES THE 2015  
OUTSTANDING WEED SCIENTIST  
AWARD FROM CAROL MALLORY-  
SMITH



2015 FELLOWS - PETE FORSTER & GIL COOK



PHIL AND ED AT COMMAND CENTRAL



BILL KRAL



JOAN DAVENPORT  
DISCUSSES SOILS  
AND VITICULTURE  
IN THE PNW



TIM MILLER AND 2015  
FELLOW PETE FORSTER



2015 FELLOW GIL COOK



## North American Invasive Species Management Association

205 W. Boutz Rd.

Bldg. 4, Ste 5

Las Cruces, NM 88005

Phone: 575-527-8853 Fax: 575-527-8853

Email: [marathonag@zianet.com](mailto:marathonag@zianet.com)

Dear Potential Partner,

We would like to introduce you to a program that has a main goal to disrupt the link between the spread of invasive species and outdoor recreation and other vectors – **PlayCleanGo: Stop Invasive Species in Your Tracks**. Like its sister program *Stop Aquatic Hitchhikers!*, **PlayCleanGo** is designed to provide outdoor recreationists with a clear call of action to become aware, attentive and accountable for stopping the spread of invasive plants and animals. Please visit [www.playcleango.org](http://www.playcleango.org) for more information.

NAISMA recently adopted **PlayCleanGo (PCG)** as our national education campaign. The NAISMA Marketing and Outreach Committee conducted a survey that identified the need for a national campaign with a unified message. The response was overwhelmingly in support of a campaign that any program could adopt and utilize as a compliment to their local outreach efforts. The committee feels the **PCG** campaign meets that need and thus supports adoption by NAISMA.

We invite you to join us in this effort by becoming a **PCG** partner. To do so, enter your information in the [PCG partner form](#). As a **PCG** partner, you have access to all **PCG** graphics and photos, and limited graphic services to customize ads specifically for your audiences. In return, **PCG** asks that you add them as a link to your website, provide them with your logo to serve as a hyperlink on the PCG partners page, and Like them on Facebook. **PlayCleanGo** also asks partners to follow graphic standards when using **PCG** materials. **PCG** has adopted a look and feel that is modern, active and positive with a flexible system of messaging capable of reaching a wide array of audiences.

As you probably know, invasive species have been identified as being amongst the worst threats to our nation's natural resources. People are primary means of long-distance spread! The chief of the United States Forest Service characterized invasive species as a "catastrophic wildfire in slow motion" because of the seriousness of the problem. Invasive plants, for instance, invade 1.7 million acres of wildlife habitat annually (NISIC, '09).

Working together, we can increase the success of our mutual outreach goals. Please join NAISMA and many others in this important endeavor as we band together as never before to increase public awareness.

Thank you for your consideration,

Julie Kraft  
Marketing and Outreach Committee Chair  
North American Invasive Species Management Association  
(307) 367-4728  
[jewelryjoe@hotmail.com](mailto:jewelryjoe@hotmail.com)

## 2016 IWSS Graduate Student Award—A Competition

The International Weed Science Society has decided to continue with its tradition to encourage the participation of graduate (M.Sc. and Ph.D.) students in the 7th International Weed Science Congress (June 19-25, 2016) in Prague (<http://www.iwsc2016.org>).

A limited number of awards will cover registration fees, accommodation and part of travel expenses. The Graduate Students Award Committee will select the awardees according to the following criteria:

1. The candidate must be enrolled as a M.Sc. or Ph.D. student, pursuing a degree related to weed science as of **1 January 2016**.
2. A 5-page manuscript including tables, figures and photos (PDF file, 12 pt font, 1.5 line spacing, and 3-cm margin all around), with Abstract, Introduction, Materials and Methods, Results and Discussion. **Deadline for submission is 1 January 2016**.
3. Submissions will be appraised based on the following merits: quality of research, novelty, and contribution to the discipline of weed science.
4. Submissions should include a letter of commitment from the major Professor or institution to provide additional travel support should the student receive the award from IWSS.
5. All material should be sent via e-mail, **no later than 1 January, 2016** to the three members of the Graduate Students Award Committee: [pbhowmik@umass.edu](mailto:pbhowmik@umass.edu) [paolo.barberi@sssup.it](mailto:paolo.barberi@sssup.it) and [rubin@mail.huji.ac.il](mailto:rubin@mail.huji.ac.il).

Please ask for confirmation that your manuscript has arrived safely to **all** committee members.

The IWSS is grateful to the EWRS and the WSSA for their financial support to partially cover these important awards. The student submitting the most outstanding paper as determined by the Graduate Students Award Committee will receive the "**IWSS Larry Burrill Graduate Student Travel Award**", which covers all expenses to attend the Congress.

## Ohio State University will host the 2015 National Weed Contest

The 2015 National Weed Science Contest will be held on Tuesday, July 20-21, 2015 at the OARDC Western Agricultural Research Station near South Charleston OH (about 40 miles west of The Ohio State University). Details regarding hotels, registration, volunteers, rules, and schedule of events may be found on the Southern Society of Weed Science's website ([www.swss.ws/contest-hosted-university/links](http://www.swss.ws/contest-hosted-university/links)). For questions, contact Bruce Ackley ([ackley.19@osu.edu](mailto:ackley.19@osu.edu)).

## A tool you can use: the National Pesticide Information Center (NPIC)

The Education & Regulatory Section discussion in Portland was very lively and informative. Kaci Buhl, Project Coordinator, National Pesticide Information Center, lead the discussion. The topic was "Pesticide incidents, the stories people tell, and how to use them in educational programs." The discussion was preceded by Kaci's presentation "A Tool You Can Use: The National Pesticide Information Center at Oregon State University."

- You can make referrals to **NPIC** ([www.npic.orst.edu](http://www.npic.orst.edu)) (1-800-858-7378) when individuals contact you for non-emergency, science-based information about pesticides.
- You can use the expansive NPIC website to find talking points for consumer-oriented topics like **food safety**, **low-risk pesticides**, and **residential pests**.
- As a professional, you might enjoy or directories of **chemical databases**, **manufacturer contacts**, and our collection of **technical fact sheets**.

NPIC is operated at Oregon State University through a cooperative agreement with the US Environmental Protection Agency. Their mission is to promote informed decision-making, to translate technical information, and to facilitate access to sound science. NPIC does not make recommendations or levy opinions.

NPIC's toll-free phone service is available Monday – Friday, 11:00 – 3:00 Eastern (8:00 – 12:00 Pacific). Email inquiries and voice-mail messages will be returned within one business day. Send email to NPIC at this address: [npic@ace.orst.edu](mailto:npic@ace.orst.edu). They're also active on **Facebook**, **Twitter**, and **YouTube**.



*Announcing NABC 27 – Stewardship for the Sustainability of Genetically Engineered Crops: The way Forward in Pest Management, Coexistence, and Trade*

The 27<sup>th</sup> annual conference of the North American Agricultural Biotechnology Council (NABC) – *Stewardship for the Sustainability of Genetically Engineered Crops: The Way Forward in Management, Coexistence, and Trade* – will be hosted by the Pennsylvania State University at University Park, PA, June 2-3, 2015.

The conference agenda, online conference registration, lodging information, and other pertinent details are available at <http://agsci.psu.edu/nabc>.

NABC 27 will address the following themes related to stewardship and sustainability of genetically engineered crops:

- Resistance Management
- Co-existence
- Trade and Markets

Four keynote presentations and three plenary sessions will allow for presentations, in-depth discussion, and opportunities for question and answer. In addition, there will be two moderated panel sessions covering “Social and Economic Dimensions of Sustainability” and “Puttin it all Together”.

As in previous years, the Student Voice travel stipend will be available to graduate students at NABC member institutions. Please visit <http://nabc.cals.cornell.edu/StudentVoice.html> for additional information.

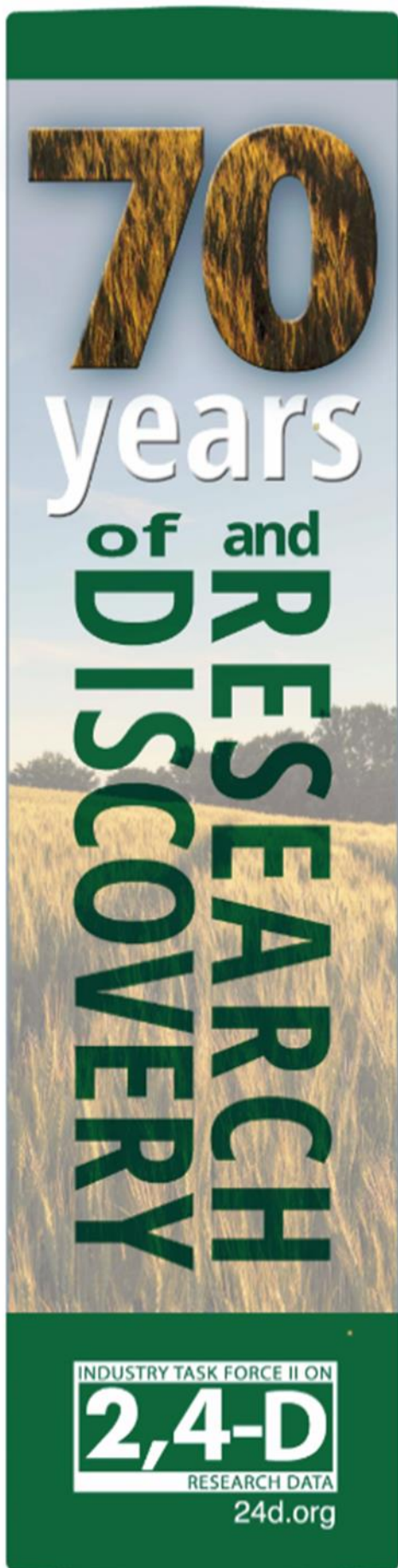
NABC (<http://nabc.cals.cornell.edu/>) has been hosting annual public meetings about the safe, ethical, and efficacious development of agricultural biotechnology products since its formation by the Boyce Thompson Institute in collaboration with Cornell University, Iowa State University, and the University of California-Davis in 1988. Today the organization, a not-for-profit consortium of twenty-four leading agricultural research and teaching universities/governmental agencies/institutions in the U.S. and Canada, continues to provide all stakeholders the opportunity to speak, to listen, and to learn about the issues surrounding agricultural biotechnology.

The conference will be held on Penn State’s University Park campus. University Park is located in beautiful central Pennsylvania, an area that combines the natural beauty of hardwood forests and working farms, but is also easy to reach by road or air.

We hope to see you in June.



Friends, this year is the 70<sup>th</sup> anniversary of 2,4-D.



Marking seven decades of research and innovation, we have launched the 2,4-D Research Portal ([www.24d.reviews/](http://www.24d.reviews/)) as a place to gather the most robust peer reviewed studies as well as video interviews with leading experts.

The world's first selective herbicide, 2,4-D is still one of the most widely used agricultural herbicides today. It has played a critical role in drastically increasing food production while simultaneously lowering cost.

For its contributions to agriculture and food safety, the Henry Ford organization identified 2,4-D as one of the 75 most important inventions of the past 75 years.

In determining 2,4-D's safety, merit and the value of its continued use, regulatory agencies in countries across the world draw on the vast literature on 2,4-D.

2,4-D has been registered for use as an agricultural herbicide since 1947 and since then the molecule has been reevaluated and registered by regulatory agencies across the world. I invite you to look at our Research Portal, watch the videos we have posted, and pass this message along to your peers and colleagues.

With sincere appreciation,

Jim Gray  
Executive Director  
Industry Task Force II on 2,4-D  
Research Data

# **REQUEST FOR WSWS FELLOW AND HONORARY MEMBER NOMINATIONS**

**BY**

**Dr. Jill Schroeder, Committee Chair**

**Now is your chance to nominate deserving colleagues as a WSWS Fellow or Honorary Member!**

## **WSWS FELLOW**

### **WSWS Guidelines for Nominating Fellows**

**Fellows of the society are members who have given meritorious service to the Western Society of Weed Science.**

The nominator must contact the member to be nominated and request them to prepare a concise [2-3 page] resume.

- a. The nominee must be involved in the process. The most pertinent information about the nominee can only be obtained from the nominee.
- b. The nominee's resume should be based on the WSWS guidelines approved by the Board of Directors (see below).
- c. Information from the resume will be used by the nominator in writing the letter of nomination.
- d. The nominator also is responsible for soliciting two letters of support for the nominee. The letters should be sent to the nominator and included in the nomination package sent to the committee.
- e. The nomination package should include the nominee's vita, the nominator's letter of nomination, and two support letters.

### **SERVICE TO WSWS – Please address the following points in the resume:**

1. **Officer:** President; Vice-President; Secretary, Research Section Chair; Education & Regulatory Section Chair; Editor; Other.
2. **Committees:** Standing; Special; Ad Hoc.
3. **Presentations and Publications:** WSWS – Papers, Proceedings, Research Progress
4. **Service to other Weed Science Societies:** Weed Science Society of America; State Organizations.
5. **Academic Weed Science Endeavors:** Teacher; Graduate Students; Refereed Publications; Extension Publications, Books; Popular Publications; Academic Weed Science Pursuits; Other.
6. **Industry Weed Science Endeavors:** Sales and Marketing; Research and Development; Regional Manager; Product Manager.
7. **Other Meritorious Weed Science Service**

## **WSWS HONORARY MEMBER**

### **WSWS Guidelines for Nominating Honorary Members**

**Honorary members are selected from individuals whose activities have been largely from outside the Western Society of Weed Science, but who have significantly contributed to the field of weed science.**

- The nominator must contact the person to be nominated and request them to prepare a vita.
- The nominator will then prepare a letter summarizing the nominee's contribution to the area of weed science with emphasis on how the interests of the WSWS have been served by this non-member.
- Include the vita with the letter of nomination to provide all pertinent information to the Committee.

**NOMINATIONS FOR FELLOW AND HONORARY MEMBER PACKAGES ARE DUE BY DECEMBER 1, 2015**

**TO:**

*Electronic submission preferred.*

**Dr. Jill Schroeder**

**(202)720-0066**

**Jill.schroeder@ars.usda.gov**

## Call for Symposia for the 69<sup>th</sup> Annual Meeting

Members of the WSWS are invited to submit proposals for symposia at the 69th Annual Meeting to be held at the Hyatt Regency Albuquerque, New Mexico from March 7-10, 2016. The WSWS program committee will receive proposals and evaluate proposed symposia based on justification and objectives, the target audience, thorough agenda development, and detailed budget. Symposium proposals are due **June 15**. Symposia will be confirmed at the summer board meeting.

The program committee together with the WSWS Board of Directors may approve full or half-day symposia for the annual meeting. An allowable budget of up to \$2000 can support travel and lodging expenses for invited nonmember speakers (honoraria will not be paid), symposia materials, or refreshments. Although funds have been budgeted for the symposia, the goal is to spend the least amount necessary to obtain excellent symposia speakers.

Please use the **WSWS SYMPOSIUM PROPOSAL FORM**, which can be found on the WSWS homepage ([www.wsweedscience.org](http://www.wsweedscience.org)) under the "Annual Meeting" tab. Symposium proposals can be e-mailed directly to Sandra McDonald ([sandra@mountainwestpest.com](mailto:sandra@mountainwestpest.com)) or Kirk Howatt ([kirk.howatt@ndsu.edu](mailto:kirk.howatt@ndsu.edu)). Proposals for meetings beyond Albuquerque in 2016 also are encouraged. The WSWS Annual Meeting will be held in Coeur d'Alene, Idaho in 2017 and California in 2018. Topics that are relevant for the local audience are encouraged so that WSWS can reach out to end users with knowledge and technology.

Past symposia topics have included Lab Diagnostics for Injury Determination, Tree & Vine Weed Control, Ecology and Management of Downy Brome, *Ventenata dubia*, Invasive Toadflax, Ecological Effects of Invasive Plants, *Kochia*, Invasive Grasses, Jointed Goatgrass, Biological Control of Invasive Plants, Adjuvant Technology, *Arundo/Phragmites*, Application Technology, Knotweed, Crop Protection Chemistry vs. Genetically Modified Crops, Dose Response Functions, and Salt Cedar.

Abstracts of symposium presentations will be included in the proceedings; therefore, symposium organizers are responsible for ensuring all electronic title and abstract submissions. We look forward to your symposia proposals. If you have any questions, please contact Sandra McDonald or Kirk Howatt.

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### 2015 Membership Renewal Form for the Western Society of Weed Science

(To pay by credit card, please go to [www.wsweedscience.org](http://www.wsweedscience.org) and login to your account)

**IF YOU DID NOT ATTEND THE ANNUAL MEETING BUT WANT TO REMAIN A MEMBER, FILL IN THE INFORMATION BELOW AND SEND \$ 30.00 FOR DUES TO THE ADDRESS GIVEN.**

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<b>Last name</b>	<b>First name</b>	<b>Affiliation</b>	
<b>Mailing address</b>	<b>City</b>	<b>State</b>	<b>Zip code</b>
<b>Phone # w/area code</b>	<b>e-mail address</b>		

**Classification:** Student \_\_\_ University \_\_\_ Federal Agency \_\_\_ State Agency \_\_\_  
Private Industry (manufacturing and sales) \_\_\_ Private Industry (consulting) \_\_\_  
Unemployed \_\_\_ Retired \_\_\_ other (specify) \_\_\_\_\_

Send to: WSWS/Phil Banks  
205 W. Boutz, Bldg 4, Ste 5  
Las Cruces, NM 88005



**University of Nebraska-Lincoln**  
**Institute of Agriculture and Natural Resources**  
**Position Announcement**  
**Department of Agronomy and Horticulture**

**March 5, 2015**

**The Institute of Agriculture and Natural Resources at the University of Nebraska is accepting applications for an Integrated Weed Management Specialist**, a 50% research, 50% extension, a twelve-month, tenure-leading faculty position at the Assistant or Associate rank in the Department of Agronomy and Horticulture and administered at the Panhandle Research and Extension Center (PHREC) located at Scottsbluff, NE. Tenure home for this position is the Department of Agronomy and Horticulture, with administrative assignment to the PHREC. Rank and tenure will be based on experience and credentials of the successful applicant. Focus of the position will be on researching and conducting extension activities related to integrated weed management.

Research responsibilities are to develop new and evaluate existing practices for weed control in the Nebraska Panhandle and other areas of western Nebraska. Research to meet the increasing challenge as more weeds develop resistance to herbicides and new weed species from other areas become established due to our changing climate. This region has a dry climate, low organic and high pH soils, thus necessitates specific weed management strategies. The unique crop rotation of sugarbeet, corn and dry bean in irrigated regions and winter wheat, dry edible peas, sunflower and proso millet in dryland regions require the development of integrated weed management techniques and the testing of herbicides for these crops. In addition to crops, animal systems that use grazed and harvested forages are often impacted by weed encroachment. Development of weed management strategies that integrate weed ecology, cultural, mechanical, biological and chemical weed control techniques on a whole farm, multi-crop, and multi-year basis across the entire management landscape are expected.

Extension educational programs will serve growers, consultants and agricultural industry professionals. Leadership in updating and developing management and control practices for weed management and invasive species into rangelands and other environments across the region will be key components of the extension efforts. The use of multimedia tools and distance education is expected to complement conventional outreach approaches.

Additional responsibilities include communication of research in peer-reviewed journals, presentations at scientific conferences, supervision of graduate student research, publication of extension bulletins/circulars and/or development of educational programs that effectively convey research findings to clientele. Participation in recruitment of potential students to the University of Nebraska is an expectation of all faculty. The incumbent is expected to obtain grant funds to maintain active programs in research and extension as well as support graduate student training.

Requires a Ph.D. degree or Ph.D. in place by date of hire in Agronomy, or closely related field, with appropriate documented research experience. Post-doctoral experience is preferred. Additionally, demonstrated research and extension experience in invasive weed management; evidence of a strong publication and grant record; excellent communication skills; experience working in multi-disciplinary teams; and potential for growth into a leadership role are preferred qualifications for this position.

To review the complete position details and to apply for this position, go to: <http://employment.unl.edu>, search for requisition number F\_150058. Click on "Apply to this Job." Attach a cover letter, an overview of research and extension experience and interests, and a curriculum vitae. Arrange for 3 letters of reference to be sent via e-mail to: [kdanforth2@unl.edu](mailto:kdanforth2@unl.edu). Review of applications will begin on June 1, 2015, and continue until the position is filled or the search is closed.

*The University of Nebraska-Lincoln is committed to a pluralistic campus community through affirmative action, equal opportunity, work-life balance, and dual careers.*

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## Principal Research Specialist

Crop Sciences

College of Agricultural, Consumer and Environmental Sciences

University of Illinois at Urbana Champaign

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Illinois is a world leader in research, teaching, and public engagement. We serve the state, the nation, and the world by creating knowledge, preparing students for lives of impact, and addressing critical societal needs through the transfer and application of knowledge. Illinois is the place where we embrace difference. We embrace it because we value it. Illinois is especially interested in candidates who can contribute, through their research, teaching, and/or service, to the diversity and excellence of the Illinois community.

### POSITION SUMMARY

Provide managerial leadership of the herbicide evaluation program.

### SPECIFIC DUTIES AND RESPONSIBILITIES

- Conduct applied weed science research through planning, coordination, treatment application, data collection, entry and analysis for field and greenhouse experiments.
- Provide research knowledge and advice to faculty, staff, and graduate students in weed science.
- Coordinate the management and leadership of the herbicide evaluation program.
- Conduct field tours and presentations with weed science faculty and staff and perform other outreach activities as needed.
- Maintain and analyze pesticide application records.
- Collaborate with growers, industry representatives, and other research personnel.
- Produce annual research summaries and reports.
- Supervise hourly student employees by training, assigning work, and approving time sheets

**QUALIFICATIONS:** Required qualifications: a B.S. in agronomy or related agricultural discipline; three years of weed science research experience and experience with computer software for word processing, data entry and analysis, and slide preparation. Applicant must possess a thorough knowledge of weed science field and greenhouse research techniques, and of pesticides and their associated application techniques. This position requires possession of, or ability to obtain, an Illinois Research Pesticide Applicators license.

Preferred qualifications: Preference will be given to candidates with a M.S. in weed science and experience in row-crop agronomic production.

### SALARY

Salary will be commensurate with training and experience.

### APPOINTMENT STATUS

This is a 12-month, 100% academic professional position.

### PROPOSED STARTING DATE

As soon as possible after the closing date.

### APPLICATION PROCEDURES

Please create your candidate profile at <http://jobs.illinois.edu> and upload a cover letter indicating your qualifications, resume and contact information for three references by February 22, 2015. All requested information must be submitted for your application to be considered.

For further information regarding application procedures, you may contact Linda Kemplin, [kemplin@illinois.edu](mailto:kemplin@illinois.edu). You may also visit <http://cropsci.illinois.edu> for additional information.

*Illinois is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, religion, color, national origin, sex, age, status as a protected veteran, or status as a qualified individual with a disability. Illinois welcomes individuals with diverse backgrounds, experiences, and ideas who embrace and value diversity and inclusivity ([www.inclusiveillinois.illinois.edu](http://www.inclusiveillinois.illinois.edu)).*

# Postdoctoral Researcher Position in Weed Evolution and Genetics

**Location:** Department of Plant Sciences, University of California – Davis

A postdoctoral researcher position is available immediately in the laboratory of Marie Jasieniuk to work on the evolution and genetics of herbicide resistance in agricultural weeds of California. Projects include research on the evolution, spread, and genetic basis of glyphosate and glufosinate resistance in *Lolium multiflorum* (Italian ryegrass), an economically significant weed of orchards and vineyards. The selected candidate will conduct field and lab studies and use multiple approaches, including SNPs, microsatellites, chloroplast DNA sequencing, and/or next-generation sequencing to analyze herbicide-resistant and –susceptible plants from field populations across the Central Valley of California. Publication of the research results in peer-reviewed journals is required.

**Minimum Qualifications:** Applicants must have a Ph.D. in plant genetics, weed science, or plant biology with experience in molecular genetic and/or next generation sequencing analyses. Applicants with a proven record of publications in peer-reviewed journals and strong verbal and written communication skills will be preferred.

This position is a two-year appointment contingent on satisfactory job performance during the first year. The position may be extended beyond the second year based on satisfactory progress and available funding. A competitive salary and health benefits are included, as specified by the University of California at Davis.

Interested applicants should send via e-mail: (1) a cover letter detailing the applicant’s research experience and possible starting date, (2) a curriculum vita that includes a list of at least three references’ names and contact information, and (3) university transcripts to Dr. Marie Jasieniuk at [mjasien@ucdavis.edu](mailto:mjasien@ucdavis.edu). Please include “Postdoctoral Application” in the subject line.

Address questions about the position to:

Dr. Marie Jasieniuk  
Associate Professor  
Department of Plant Sciences, MS 4  
University of California – Davis  
Davis, CA 95616 USA  
E-mail: [mjasien@ucdavis.edu](mailto:mjasien@ucdavis.edu)  
Phone: 530-752-8166

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## Faculty Position in Weed Science - Clemson University

Type of Position	Tenure-track position at the Assistant Professor level (80% Research, 20% Extension, 12-month appointment)
Employer	Clemson University, Coastal Research and Education Center
Description of Employer	Clemson University is a Land Grant University located on the shores of Lake Hartwell within view of the Blue Ridge Mountains in the Upper Piedmont of South Carolina, USA. Clemson University is recognized as a Top 25 public university by U.S. News and World Report.
Location of Position	Coastal Research and Education Center, 2700 Savannah Highway, Charleston, SC 29414 ( <a href="http://www.clemson.edu/public/rec/coastal">www.clemson.edu/public/rec/coastal</a> )
Description of Location	The Coastal Research and Education Center (CREC), one of Clemson University’s off-campus research sites, is located in Charleston, SC, on a 325-acre research complex. CREC is housed in the USDA’s U.S. Vegetable Laboratory that provides state-of-the-art greenhouse, laboratory and genomics facilities. Charleston, founded in 1670, is a city rich with history, architecture, culture, and renowned cuisine. The Atlantic coastal environment supports diverse terrestrial and marine ecosystems.
Salary	Dependent upon on qualifications and experience.
Benefits	Full benefit package ( <a href="http://www.clemson.edu/employment/benefits/">www.clemson.edu/employment/benefits/</a> )

Closing date of competition	April 15, 2015 or until suitable candidate is found.
Date Position Available	On or after August 1, 2015.
Position Description	<p>The incumbent will be expected to conduct research on weed biology and ecology that leads to the development of economically and environmentally sustainable weed management programs for vegetable crops in South Carolina and the region. Research areas may include, but are not limited to, plant-herbicide interactions, strategic use of cultural practices and equipment to manage weeds, and potential influences of soil and climatic factors on weed growth and development. The individual would not have a formal teaching appointment, but would support the teaching program on campus by providing lectures in courses on topics related to their expertise.</p> <p>The successful candidate will be expected to develop a nationally recognized, externally funded research program and to supervise graduate student research. He or she will work closely with research and Extension personnel, local farmers, agricultural organizations, and governmental and non-governmental organizations to plan and develop programs that support sustainable vegetable production in the area of weed science.</p> <p>Qualified candidates must have a Ph.D. in weed science or a closely related field. Preference will be given to candidates with post-doctoral research experience, evidence of research productivity, and potential to secure external funding to support an active research program.</p> <p>The successful candidate will be expected to communicate research results through refereed journal articles; oral presentations at county, statewide, regional and national meetings and workshops; and Extension publications available in a variety of media. She or he will be expected to participate in the annual Southeastern Vegetable Extension Workshop to collaborate on development of regional weed management recommendations.</p> <p>Strong written, verbal, and interpersonal communication skills are required, as well as a general understanding of current vegetable production practices.</p>
Submit what	<p>Please email a single PDF file (Lastname.pdf) including :</p> <ol style="list-style-type: none"> <li>1. Letter of interest with applicant's contact information;</li> <li>2. Names, titles, and contact information for at least three references;</li> <li>3. A one-page Plan for Future Research;</li> <li>4. An unofficial transcript from the Ph.D. degree-granting institution; and</li> <li>5. A Curriculum Vitae.</li> </ol> <p>Review of materials will continue until the position is filled. To ensure full consideration, please submit materials by April 15, 2015.</p>
Submit to	Ms. Jennifer Thomas Hooper via e-mail at <a href="mailto:jthoope@clermson.edu">jthoope@clermson.edu</a>
Additional Information	Clemson University is committed to a policy of equal opportunity for all persons and does not discriminate on the basis of race, color, religion, sex, sexual orientation, gender, pregnancy, national origin, age, disability, veteran's status, genetic information or protected activity (e.g., opposition to prohibited discrimination or participation in any complaint process, etc.) in employment, educational programs and activities, admissions and financial aid. This includes a prohibition against sexual harassment and sexual violence as mandated by Title IX of the Education Amendments of 1972.



# Publications Available From the Western Society of Weed Science

(All prices include shipping and handling; bulk orders may be discounted, see below)

_____ Weeds of the West.....	\$34.00
_____ Aquatic and Riparian Weeds of the West.....	\$45.00
_____ Weeds of California and Other Western States.....	\$85.00
_____ Weed Control in Natural Areas in the Western United States .....	\$40.00
_____ Interactive Encyclopedia of North American Weeds DVD.....	\$50.00
	Total_____

All publications can be ordered online at [www.wsweedscience.org](http://www.wsweedscience.org) (click on online store)

To order by mail and pay by check, send this completed form with payment to:  
WSWS Business Manager, 205 W. Boutz Rd, Bldg 4, Ste 5, Las Cruces, NM 88005.

**Contact the Business Manager (Phil Banks) at (575) 649-7157 for bulk order prices.**

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## WSWS Objectives

- ❖ To foster and encourage education and research in weed science.
- ❖ To foster cooperation among state, federal and private agencies in matters of weed science.
- ❖ To aid and support commercial, private and public agencies in the solution of weed problems.
- ❖ To support legislation governing weed control programs and weed research and education programs.
- ❖ To support the Weed Science Society of America and foster state and regional organizations and agencies interested in weed control.



Western Society of Weed Science  
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Las Cruces, NM 88005