

NCWSS • News

North Central Weed Science Society

Vol 29, Number 1, Spring 2012

www.ncwss.org

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2012 President— Bryan Young



*Bryan Young
2012 President*

I'm certain that all previous Program Chairs of the North Central Weed Science Society have taken a deep sigh of relief following the annual conference. As I reflect on my time organizing the program I now realize just how much those duties provided me with a greater perspective on what and who really comprise the NCWSS. Among all the author names, titles, symposia, and committee meetings on the agenda were individuals who are passionate about their work and not only sought to share their knowledge, but to learn from their peers in weed science and

ultimately continue the advancement of weed management in the North Central region from within their own organizations or as part of a collaborative initiative. Even after serving on the NCWSS Board for the majority of the past 13 years I did not fully appreciate the devoted individuals that comprise our membership, the depth and breadth of our technical expertise in weed management, and the range of organizations and initiatives that are represented within the NCWSS. I'm honored to serve as the President of the NCWSS and I look forward to what this year will unfold for opportunities to keep the NCWSS in the forefront as a premier regional scientific organization and resource.

Reflections on the 2011 Conference

Any northern meeting location for our conference instills some degree of concern over inclement weather hampering conference attendance, but it would be hard to envision better weather than what we experienced at Milwaukee in December. Mick Holm and his team on the Local Arrangements committee were simply outstanding and are to be commended for their effort and attention to detail. The 2011 conference had 355 registered individuals for NCWSS and another 156 registered on Wednesday and Thursday of the conference for the Invasive Plants Symposium which we hosted with the Midwest Invasive Plant Network (MIPN) and the Invasive Plants Association of Wisconsin (IPAW). This partnership with the invasive plant groups continues to be mutually beneficial and has been progressively integrated within the NCWSS program at select venues over the past several years. I would again like to convey my gratitude to Mark Renz, Katie Howe, Jerry Doll, Reid Smeda and

**Please send your articles for
the Summer NCWSS
Newsletter to Harlene
Hatterman-Valenti by
May 15th
Electronic Submission is
preferred, send articles to
h.hatterman.valenti@ndsu.edu**

Continued on Next Page

others who helped to coordinate the Invasive Plants Symposium.

At the general session we had the pleasure of hearing from Bill Chism, Jill Schroeder, and Lee VanWychen on activity within Washington DC, especially sharing their thoughts and activity on herbicide-resistant weeds and management issues. The regional weed science societies and WSSA have continued to cultivate productive conversations related to herbicide resistance with stakeholders and government agencies to address this issue as one of our most significant challenges at present. I'm optimistic that there will be opportunities created through this dialogue for the membership of the NCWSS in 2012 and improvements in education and the sustainability of weed management may be facilitated.

The symposium on Giant Ragweed Biology and Management co-chaired by Emilie Regnier and George Kegode received high acclaim for the presentations and discussion forum they organized covering a broad range of presentations from basic biology to public health issues and allergies. Attracting international speakers for the symposia provides great credibility to our conference program and I hope that the NCWSS will be recognized as the organization and venue for expertise on giant ragweed. As always the Industry Update session was very well attended and has become a staple of our program. I would like to thank Terry Carmody and Adrian Moses for their effort in coordinating this symposium which holds significant value for our membership.

Overall, the presentations and posters were excellent and I appreciate everyone's effort to maintain the high quality standard that is our tradition at the conference. Among these were the student contest winners who I want to congratulate once again. We also acknowledged several of our NCWSS members who have served our society and their profession well for which they were recognized with our distinguished achievement awards. I would be amiss if I didn't explicitly thank our NCWSS Sustaining Members and other sponsors through the Industry committee for their commitment to our society. Their contributions are greatly appreciated and enable us to provide a rewarding meeting for attendees and "move the needle" on our progress towards our mission: *to deliver research, education, and training to persons responsible for weeds and their management in land use systems*. Dave Johnson has been working on the program for 2012 so please share any thoughts for his consideration in making that conference another great success.

The NCWSS Board of Directors has several topics at hand that should bear fruit over the coming year. Below is an incomplete list of important items that should be brought to your attention:

- 1) The concept of capturing video and audio of oral presentations has been suggested for future meetings and the Strategic Planning committee, led by Brian Jenks, is developing a proposal for consideration by the Board. Critical considerations are member acceptance of the technology and the logistics for implementation. The Giant Ragweed Biology and Management symposium from 2011 will serve as a pilot project with presentations available for viewing on a secure website later this year.
- 2) After a two-year hiatus the NCWSS summer contest resumes in 2012 on August 8 and 9 at the Diamond Ag Research Facility near Larned, KS. Doug Nord and his associates at Diamond Ag have my sincere appreciation for hosting this event and I'm looking forward to another great educational experience for our students.
- 3) The Resident Education committee continues to consider how to strengthen current activities and develop new ones that contribute towards the education of both our undergraduate and graduate students. If you have a passion for student education, please consider serving on this committee or just sharing your thoughts with some of the current committee members.

Committee membership and Section Chair assignments are found in this newsletter and on the website. Please review the assignments and inform me if any corrections are necessary for the individuals listed or their contact information. Service to our society through these committees is critical to how well we function as an organization and our future vitality. I appreciate your willingness to serve and encourage productive committee activity throughout the year.

Finally, I need to thank Chris Boerboom as he completed the presidential rotation when his term as Past President came a close in December. In addition, I look forward to continuing to work with Mark Wrucke and Dave Johnson in the presidential ranks and welcome J.D. Green as the current Vice-President. In closing, a professional society such as the NCWSS requires a huge pool of volunteer effort from within the membership. I thank you for your persistent energy and devotion to this society. ♦

66th Annual Meeting of the North Central Weed Science Society

Mark Wrucke (Past President)

It has been an honor to serve the North Central Weed Science Society as your president this past year. It is exciting to know that our society has shown growth and now stability in attendance and participation. We had 355 people register for our annual meeting plus we had an additional 156 register for the joint meeting with the Midwest Invasive Plant Network and the Invasive Plants Association of Wisconsin. The opportunity to hold a joint meeting with these Invasive Weed groups has helped to strengthen the format of all groups involved. We share many areas of interest with these groups and having joint meetings allow for expanded expertise and education of those involved and the public in general.

Our annual meeting in Milwaukee was a success thanks to the efforts of many. I would like to thank Bryan Young for pulling together an excellent program. Meeting jointly with MIPN and IPAW created significant challenges for meeting space and to develop a schedule which allowed the opportunity to attend as many sessions as possible but Bryan did an excellent job. I would also like to thank all the individuals who organized symposia, served as session or committee chairs, volunteer judges, and especially to all those who volunteered to present papers and posters. Also, many thanks to Mark Renz and Kate Howe with MIPN and Jerry Doll with IPAW for working with the NCWSS to allow this joint meeting to take place. Hopefully this collaboration will continue in the future to provide the opportunity for education of a broader array of weed science issues.

Many thanks have to be extended to Mick Holm and the entire Local Arrangements Committee. They continually anticipated needs ensuring that all functions ran very smoothly during the meeting. The facilities and personnel at the Hyatt Regency Milwaukee were very accommodating contributing to a highly successful meeting. I would also like to thank the continued support of our Sustaining Members for their financial support to the society. Many of these same members provide additional support through the Graduate Student luncheon and mixer as well as the Society Social event. All of these functions provide great opportunities for interaction and networking.

A key priority of mine as Past President will be to solicit nominations for the Distinguished Achievement Awards and Fellows as well as the Graduate Student Award. Please start thinking about nominations for any of these awards and fellows before the busy spring and summer seasons start. The process for nominating someone for a Society award has been simplified making it much easier to nominate a worthy candidate. We are blessed to have many very active members of the NCWSS so please consider making a nomination this summer.

In closing, I want to thank you for the opportunity to serve as President of the NCWSS. The continued support and involvement of our members makes it a pleasure to serve. As I said at the general session, this is a great time to be involved in agriculture and in particular weed science. I look forward to seeing you all next December in St. Louis. Please be careful and have a safe and productive season.

2012 NCWSS Board of Directors

Top Row:

J.D. Green, David Johnson, and Mark Wrucke

Bottom Row:

Harlene Hatterman-Valenti, Christy Sprague, Bryan Young and Mark Bernards

Not Present: Robert Hartzler, Duane Rathmann, Phil Banks and Lee Van Wychen



Distinguished Achievement Awards

Education Award

Recognizes outstanding educational achievements in weed science. Principal criteria include innovative or unique approaches that result in learning, ability to clearly communicate ideas, motivation of the intended audience and recognition of accomplishments by peers and the intended audience.



Dr. Anita Dille. Anita completed her B.Sc. (Agr) and M.Sc. degrees from the University of Guelph and her Ph.D. degree from the University of Nebraska-Lincoln. She has been at Kansas State University in the Department of Agronomy since Nov. 1999. Currently, she is an associate professor in the area of Weed Ecology with responsibilities in research and teaching.

Dr. Dille is responsible for two undergraduate courses: the introductory Weed Science course and a senior-level Integrated Weed Management course, and she facilitates discussion in a graduate-level Advanced Weed Ecology course every other year. Dr. Dille is also a faculty advisor for the undergraduate Wheat State Agronomy Club, and advises up to 20 undergraduate students on their academic programs in Agronomy.

Dr. Dille procured grant funds to start the Agronomy Learning Farm that was established in 2002. She coordinates activities on the 80-acre site where students get hands-on experiences in crop production and pest management within their four-year agronomy curriculum.

Dr. Dille has a strong record of professional service. She has been a member of the NCWSS since 1995 when she first attended as a graduate student. She has been actively involved with NCWSS: organized and chaired symposia at the NCWSS annual meetings (2009 and 2010), judged paper and poster contests, and served as chair of the Summer Contest Subcommittee and the Contest Rules Subcommittee. She previously served as the NCWSS representative to the WSSA (2005-2008) and is now completing her term as WSSA Treasurer and Chair of the Finance Committee (2009-2012).

Dr. Dille has been recognized for her excellent efforts in working with students by receiving the 2011 Kansas Commerce Bank Outstanding Undergraduate Teaching Award, the 2011 Gamma Sigma Delta – Outstanding Teaching Award, and being named a North American Colleges and Teachers of Agriculture (NACTA) Teacher Fellow Award in 2010.



Dr. Walter H. Fick. Walt Fick grew up on a cattle and hay ranch in the Nebraska Sandhills. His earliest recollections of weed science were helping his dad and brothers treat leafy spurge. Walt received B.S. (1973) and M.S. (1975) degrees from the University of Nebraska in agronomy/range management. A Ph.D. (1978) in range science from Texas Tech University launched Walt into a position at Kansas State

University in the Department of Agronomy with teaching and research responsibilities in range management. He developed courses in grassland monitoring and assessment, range ecology, and range management planning. All these courses include information obtained from his research efforts in rangeland brush/weed control. In recent years Dr. Fick has given guest lectures in weed science, integrated weed management, and turf weed management. He currently serves as chair of a multistate consortium developing a distance graduate certificate in grassland management.

In 2004, Dr. Fick agreed to take on added responsibilities as an extension range management specialist emphasizing prescribed burning, invasive and noxious weed control, and grazing management. Information presented in the college classroom were modified and presented via workshops, field trips, and webinars. Walt has organized and/or given presentations on prescribed burning at over 65 events with total attendance exceeding 2200. He provided expertise used in the development of the Flint Hills Smoke Management Plan in 2010.

In service to the Department of Agronomy and Kansas State University, Dr. Fick has served as an advisor to the Wheat State Agronomy Club, been an active member of the departmental course and curriculum committee for

Distinguished Achievement Awards - Continued

the last 10 years, and advises 10-15 undergraduates each year. He has also advised 11 M.S. and 3 Ph.D. students. Dr. Fick has been recognized for his advising skills with receipt of the Outstanding Advising Award of Merit, Gamma Sigma Delta, Kansas State University, 2002 and Outstanding Advising, College of Agriculture, Kansas State University, 2004-2005.

Dr. Fick gains the most satisfaction by seeing his advisees and students succeed in life while at the university and beyond.

Industry Award

The Industry Award recognizes representatives of industry who meet the basic guidelines in the above education, research, or service categories. These individuals have made significant contributions to weed science within the industry. Examples might be: patents, development of unique formulations, development of research techniques, the discovery of unique uses for a product, or service to NCWSS or to agriculture in general.



Terry Wright. Terry was born in Greenville, Mississippi and is a second-generation Dow Weed Scientist. Terry received B.S. degrees in Agricultural Biochemistry and Crop and Soil Sciences from Michigan State University, his M.S. degree in Crop Science from Washington State University, and a Ph.D. in Crop and Soil Sciences/Biotechnology from

Michigan State University. During his graduate studies, Terry's research was focused on industry-related technology including assessment of new chemistries for weed control in wheat and development of herbicide-tolerant sugar beets. Terry has established himself as a herbicide resistance expert and since joining Dow AgroSciences in 1998, has served regional, national, and international Weed Science organizations and HRAC with his knowledge of herbicide physiology and applied science. Terry has the experience as a field research biologist in Minnesota and served as Field Station Manager for the Coastal US Field Station from 2001-2002. Terry's field R&D experience included development and launch of acetochlor, cyhalofop, penoxsulam, noviflumuron, Herculex™, and

Widestrike™ insect resistant crops. Terry was Group Leader of Plant Biology-Discovery (2003-2009) and Traits Product Development Leader since 2009, focusing on opportunities for DAS's input, agronomic, and output traits in all monocots. Terry has led the team responsible for Discovery of Dow's soon-to-launch Enlist™ Weed Control Technology. Terry was co-recipient of Dow's Excellence in Science Award associated with the discovery of Enlist which has also received the AGROW award for Best Novel Agricultural Biotechnology. Terry continues to seek innovative solutions to meet today's agricultural challenges.



Gregory K. Dahl. Greg Dahl grew up on a farm near Felton, MN. He attended North Dakota State University where he received his BS degree in Agronomy in 1980 and his MS degree in Agronomy (Weed Science) in 1984. Greg worked as a crop consultant for Centrol, Inc. of Morris, MN in 1983 and 1984. He was a Technical Service Representative with American Cyanamid Company, based in Fargo, ND from 1984 to 1988. Greg was

the Pesticide Coordinator for the North Dakota State University Extension Service from 1988 to 1997, where he coordinated the training and certification program for the State of North Dakota. He became an Agronomist for Cenex/Land O' Lakes Agronomy Company in 1997. He became Research Coordinator for Product Development for Agrilience, LLC, in 2000 and for Winfield Solutions, LLC, a Land O' Lakes Company in 2007. He currently is Research Manager for Product Development for Winfield Solutions.

Greg has conducted thousands of research trials and has coordinated additional research conducted by university and private contract researchers. His research has been in the areas of adjuvants, herbicides, insecticides, fungicides, seed treatments and micronutrients. He has received one patent and his research has led to the development of over 50 commercial products. He helped develop a new class of adjuvants, the high surfactant oil concentrates. He has conducted much research on spray deposition, canopy penetration and drift reduction.

Distinguished Achievement Awards - Continued

Greg has been a member of NCWSS since 1981. At NCWSS, Greg has served on many committees including Legislative Information, Summer Contest Program, Nominations and Industry. He has chaired the Equipment and Application Methods section, and has served as graduate contest paper judge and poster contest judge several times. Greg has made presentations at many of the NCWSS meetings, participated in the "What's New in Industry" sessions, has been involved in two NCWSS symposia, and was co-organizer and co-moderator of the NCWSS Learning Store: Application and Adjuvant symposium at the 2010 meeting. He was the Master of Ceremonies at the 2010 NCWSS Awards Banquet.

Greg enjoys pheasant and deer hunting. He lives in Eagan, MN with his wife, Sheila. They have three grown children.

Professional Staff

The Professional Staff award recognizes outstanding and sustained contributions in support of weed science activities in the North Central region.



Dr. Nader Soltani. Dr. Nader Soltani is a Research Associate working with Dr. Peter Sikkema on weed management in field crops at the University of Guelph Ridgetown Campus. Nader received his BSc and MSc from California State University, Fresno and PhD from Utah State University. Upon graduation, Nader worked as a Research Associate at Utah State University and then as a

Term Research Scientist with Agriculture and Agri-Food Canada in London, Ontario. In 2002, Nader joined the Field Crop Weed Management research program at the University of Guelph, Ridgetown Campus. During his career, Nader has been involved in development of phenological models for different crops, use of soil amendments for control of weeds and diseases in various crops and weed management in field and horticultural crops.

Dr. Soltani has published 92 peer-reviewed manuscripts in various national and international

journals and co-authored one book chapter. He has been the author/co-author of 108 oral/poster presentations to various industry representatives, farmers, provincial, national and international scientific conferences in the USA and Canada. Nader has prepared six research proposals worth \$4.3 million that have all been funded by provincial and national funding agencies. Nader has served on the supervisory committee of graduate students and provided training and advice to graduate, undergraduate and summer students as well as fellow staff on preparation of manuscripts for publication in scientific journals. Nader has reviewed numerous manuscripts on behalf of Editors/Associate Editors of various national and international Journals.

Dr. Soltani has been an active member of the North Central Weed Science Society and has attended all of the NCWSS annual meetings since 2003. He has presented 23 posters at the NCWSS annual meetings and has been co-author of 6 oral presentations in the past 8 years. Nader has served as the Ontario Director on the board of directors of the NCWSS and is currently a member of the Long Range Planning, Organizational Affairs and membership Committee of the NCWSS.

Fellow Awards

Fellow is the highest honor that the Society can confer to an individual member. Only individuals who have made outstanding contributions to weed science (no more than 0.5% of the membership) receive the award each year. Fellows are considered life-time members of the NCWSS.



Dr. William G. (Bill) Johnson. Bill Johnson was raised on a small grain and livestock farm in Northwest Illinois. He received a B.S. from Western Illinois University, and M.S. and Ph.D. degrees in Weed Science from the University of Arkansas. He began his career as a faculty member and extension weed scientist in 1995 at the University of Missouri and is now a Professor of Weed Science at Purdue University. Dr. Johnson's extension and applied

Distinguished Achievement Awards - Continued

research efforts have encompassed a number of different topics over the years. His most notable recent efforts have revolved around the biology and management of glyphosate-resistant weeds. He has won two awards for his efforts on this topic, which include the Purdue Cooperative Extension Specialists Associate Special Award in 2007, and the Mid America CropLife Association Educator of the Year Award in 2009. His other extension efforts have focused on atrazine management to reduce offsite movement, nitrogen accumulation by weeds on corn, economic evaluations of weed control programs herbicide resistant crops, and diagnostic training. Dr. Johnson has given over 400 extension presentations on topics involving weed identification, biology and management, herbicide-resistant crops and weeds, proper utilization of new and existing weed management technology, and herbicide injury to crops. He has authored or co-authored over 40 extension manuals and over 300 newsletter and popular press articles. He has won 14 awards from the American Society of Agronomy for extension publications he has authored or co-authored. For his career extension accomplishments he received the Eric G. Sharvelle Distinguished Extension Specialist Award from Purdue University in 2010.

Dr. Johnson has an active applied research program in support of his extension responsibilities. He has advised 23 M.S. and Ph.D. students, 3 post-doctoral research associates, and published over 100 refereed manuscripts. He has attracted more than \$5 million in grant funding. His graduate students have won numerous awards, which include 18 1st place awards at NCWSS paper, poster or weed science contests. He has also coached graduate teams, which have won the NCWSS summer weeds contest 8 times in his career. Dr. Johnson has taught or co-taught a number of courses during his career, which include Advanced Weed Biology, Advanced Weed Science, Senior Seminar in Botany and Plant Pathology, and Special Topics in Weed Science.

Dr. Johnson is an active member of the NCWSS and WSSA, and currently an Associate Editor for Weed Technology. He served as NCWSS Communications Editor for 5 years and in the NCWSS Presidential rotation from 2006 until 2009. As President of NCWSS, his proudest accomplishments include revisions to the officer voting process to include the entire membership and changes to the board structure to utilize the state directors in a more active role. Dr. Johnson received the NCWSS Young Scientist award in 2000 and the WSSA's

Outstanding Paper in Weed Technology Award in 2005, Outstanding Extension Weed Scientist Award in 2010, and was advisor of the WSSA's Outstanding Ph.D student in 2010.



Dr. Harlene Hatterman-Valenti. Dr. Harlene Hatterman-Valenti is a native of northeast Nebraska. She received her B.S. in Biology from Kearney State College and was a three year starter for the Lady Loper's basketball team. Her M.S. was in Horticulture from the University of Nebraska-Lincoln and Ph.D. from Iowa State University in Agronomy and

Horticulture.

Dr. Hatterman-Valenti joined the NCWSS in 1987 as a graduate student and has remained actively involved since that time. As a graduate student, she participated in the Summer Weed Contest twice and in 1989 placed first in Weed Identification, tied for second in the Crop/Weed Problems & Recommendations, and overall first place Individual Graduate. She is serving or has served on many NCWSS committees and held several positions including Career Placement Committee Chair, Membership Committee Chair, Resolution and Necrology Committee Chair, Sectional Program Chairs for Soybeans and Annual Legumes section and several times for the Sugarbeets, Horticulture, and Ornamentals section, Electronic Communications Committee member, Finance, Steering and Policy Committee member, Research and Publications Committee member, Newsletter Editor, and Board of Directors.

In addition to her service to the society, Dr. Hatterman-Valenti has been influential in Weed Science with positions in industry and academics. At Iowa State University, Harlene was a Pre-doctoral Extension Associate, a full-time extension position addressing weed management issues in forages, right-of-way, horticultural crops, and residential areas. After graduate school, Harlene joined FMC as a Research Biologist at the Princeton, NJ facility, responsible for primary and pre-secondary herbicide evaluations in the Herbicide Discovery project. Three years prior to joining North Dakota State University in 2000 as an

Distinguished Achievement Awards - Continued

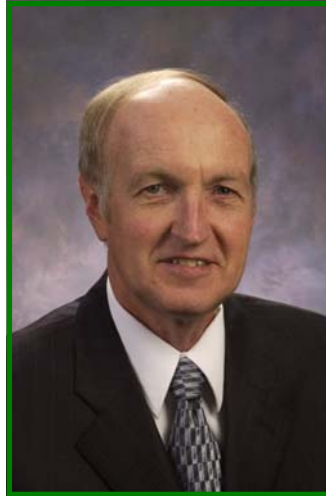
Assistant Professor, Harlene was an instructor at Metro-Tech Community College in Sioux Falls, SD. As a faculty member in the Plant Sciences Department at NDSU, Dr. Hatterman-Valenti has been primarily responsible for research on production and weed management issues in high-value crops such as small fruits and vegetables. In 2007, she was promoted to Associate Professor, during which time she has taken responsibilities as coordinator for undergraduate teaching in the Horticulture major, chair of Undergraduate Assessment for the Horticulture program, and Horticulture representative for the Plant Sciences Department Faculty Advisory Committee. She teaches two horticultural courses and coordinates the field experience courses throughout the year for crop and weed science students as well as horticulture students.

Harlene has trained nine M.S. students and currently has two Ph.D. and three M.S. students in her program. She advises approximately 20 undergraduate students each semester and has served as a faculty mentor for new faculty in the department as well as the university for the past five years. To date, Harlene has published 27 peer-reviewed manuscripts, authored one book chapter, published 81 scientific abstracts or proceedings, authored or co-authored 17 extension publications, and published 163 research reports. Since joining NDSU, Harlene has given 151 extension presentations.

Dr. Hatterman-Valenti is an active member of the North Central Weed Science Society and the Weed Science Society of America, the American Society for Enology and Viticulture and the Northeast Chapter of the ASEV, the American Society of Horticulture Science, the Perennial Plant Association, the Potato Association of America, Gamma Sigma Delta, and Pi Alpha Xi.

Dr. Hatterman-Valenti has received several awards since the North Central Collegiate Weed Science Contest, including the FMC Extra Mile Award and Innovation Award, the WSSA Outstanding Paper in

Weed Technology, the Alpha Tau Omega Amazing Teacher Award, and the NDSU College of Agriculture, Food Systems, and Natural Resources Larson/Yaggie Excellence in Research Award.



Dr. Gordon K. Roskamp.

Gordon Roskamp was raised on a grain and livestock farm in Western Illinois, graduating from Western Illinois University in 1971. He earned the Master's and PhD degrees from the University of Missouri in 1973 and 1975 respectively. He immediately accepted a teaching position at Western Illinois University in the Department of Agriculture where he has completed 36

years. Teaching responsibilities include Introductory Crop Science, Integrated Pest Management, Weed Science, Field and Forage Crops Production, and Soil Management. He serves as advisor to the WIU Agronomy Club which is affiliated with the American Society of Agronomy. Gordon became interested in Weed Science as an undergraduate at WIU. Since that time, he has worked with the major herbicide manufacturers generating field plot data representing the weed problems and environmental conditions in the Western Illinois region. He also manages the crops at the WIU University Farm where students get "hands-on" experience growing field and forage crops while identifying and solving weed, insect, disease, nematode, and vertebrate pest problems. Research interests include early preplant weed control applications in no-till crop production. He uses his contacts with herbicide manufacturers to enhance his teaching and obtain both internship and full-time employment opportunities for WIU students. Gordon currently holds the CCA and CPAg certifications. ♦

**The NCWSS Newsletter is filled by its members
Edited by Harlene Hatterman-Valenti
and arranged put together Glenn Nice**

NCWSS 2011 Annual Meeting



2011 NCWSS Meeting - Milwaukee, WI Graduate Student Poster Contest

The 22 participants in this year's Graduate Student Poster Contest were divided into three sections: Corn and Soybean Physiology; Soybean, Forage, and Cereals; and Weed Ecology, Invasive Plants, and Equipment. All posters were evaluated for appearance, rationale and logic in formulating research hypothesis, use of scientific principles and technique, interpretation of results, and oral presentation of the poster. The quality and content of the posters were very good in all three divisions with the difference between top three being only a couple of points. Many thanks to the students for their time and diligence in creating their posters, and to the fifteen judges for volunteering their time to critique them. The winners for each section with presenting author underlined were:

Corn and Soybean Physiology—Poster



First Place:
Evaluation of Application Program and Timing in Herbicide-Resistant Corn. Laura E. Bast, Andrew J. Chomas, James J. Kells, Wesley J. Everman; Michigan State University, East Lansing, MI



Second Place:
The Impact of Corn Nitrogen Concentration on Clethodim and Glufosinate Activity. Ryan M. Terry, Paul Marquardt, James J. Camberato, William G. Johnson; Purdue University, West Lafayette, IN

Soybean, Forage and Cereals—Poster



First Place:
Soil Persistence of Dicamba. Ashley A. Schlichenmayer, Tye C. Shauck, Spencer A. Riley, Carey F. Page, Reid J. Smeda; University of Missouri, Columbia, MO



Second Place:
Palmer Amaranth Control in Established Alfalfa with Dormant and Between Cutting Herbicide Treatments. Josh A. Putman, Dallas Peterson; Kansas State University, Manhattan, KS

Graduate Student Poster Contest - Continued

Weed Ecology, Invasive Plants, and Equipment—Poster



First Place:
Pollen Mediated Transfer of Fluazifop-P Resistance in Johnsongrass (*Sorghum halepense*). Tye C. Shauck, Ashley A. Schlichenmayer, Reid J. Smeda; University of Missouri, Columbia, MO



Second Place:
Effects of Increasing Weed Competition on Aboveground Switchgrass Biomass Allocation. Kassidy N. Yatso, Catherine S. Tarasoff; Michigan Technological University, Houghton, MI

Graduate Student Paper Contest

There were 33 participants in this year's Graduate Student Paper Contest divided into four sections. All papers were evaluated based on content, which includes introduction, methods and results and presentation, which includes visuals, oration and length of time of the paper. The quality of the papers was very good in all four sections with the difference between first and second place usually being just a few points.

As always we would like to thank the judges for their time and investment in the contest. This is one of the many things that go on behind the scenes at NCWSS that takes a lot of people to get done and we appreciate their involvement.

Also, thank you to the graduate students for the time and effort to put together your presentations.

Soybeans and Legumes – Papers



First Place:
Glyphosate resistant Giant Ragweed in Ontario Survey and Control. Joe Vink, Peter Sikkema, Francis Tardif, Darren Robinson, Mark Lawton, University of Guelph and Monsanto Canada



Second Place:
Economic considerations of soil residual herbicides versus postemergence glyphosate tank mixtures in soybeans. R. Joseph Wuerfel, Bryan Young, Julie Young, Joseph Matthews, Douglas Maxwell, Southern IL. University and University of Illinois

Weed Biology and Ecology—Papers



First Place:
Dairy compost influence on Weed Competition and Potato Yield. Alexander Lindsey, Karen Renner, Wesley Everman, Michigan State University



Second Place:
Influence of Sterilized and Non Sterilized Missouri Soil Collection on Glyphosate Resistance in Waterhemp. Kristin Rosenbaum, Travis Legleiter, Jim Wait, Kevin Bradley, University of Missouri, Columbia, Mo

Graduate Student Poster Contest - Continued

Herbicide Physiology and Corn/ Sorghum— Papers



First Place:
Reduced Clethodim Efficacy on Volunteer Glyphosate Resistant Corn from Tank Mixtures with Glyphosate Dicamba or 2,4D. Lucas Harre, Julie Young, Joseph Matthews, Bryan Young. Southern Illinois University



Second Place:
Responses of an Illinois HPPD-Resistant Waterhemp Population to Soil Applied Herbicides. Nicholas Hausman, Dean Riechers, Patrick Tranel, Douglas Maxwell, Lisa Gonzini, Aaron Hager, University of Illinois

Mixed Student papers, Forestry, Industrial, Turf, Aquatics, Forage, Range—Papers



First place:
Row width and Population Effects on Weed and Crop Development in Black and Small Red Beans Ryan Holmes, Christy Sprague Michigan State University



Second Place:
Differential Response of Common Lambsquarters, Powell Amaranth and Sugarbeet to Nitrogen Alicia Spangler, Christy Sprague, Michigan State University



Second Place:
Effect of Application Carrier Rate on a Conventional Sprayer System and ultra Low Volume Sprayer J Connor Ferguson, Roch E Gaussoin, John Eastin, Greg Kruger University of Nebraska

Washington Report, January 1, 2012— Lee Van Wychen

FY 2012 Ag Appropriations Bill Signed into Law

Three of the twelve federal appropriations bills, were passed by both the House and Senate and signed into law on the Friday before Thanksgiving. The agriculture appropriations bill was one of them (H.R. 2112 – H. Report 112-284). Its only the second time in 10 years that USDA will know its fiscal year appropriations before Thanksgiving, meaning Congress was only 2 months late. The remaining nine appropriations bills were signed into law on Dec. 23, 2011.

Given the current fiscal climate, federal programs were facing double digit reductions in many areas. It

was considered a victory to get the same amount appropriated in 2012 as in 2011 (i.e. 0% change), and this was the case for three of our highest priority programs: the AFRI competitive grants program, Hatch Act, and Smith-Lever Act. The Regional IPM Centers, which were on the chopping block in FY 2011, got their funding almost back to where it was in FY 2010 at \$4.1 million. The IR-4 program, which is vital for researching minor crop weed control, took a 2% cut from FY 2011. We will work to make sure that number does not decrease any further. Other program areas that support weed science that took big cuts for FY 2012 are APHIS and ARS. We will need to provide stronger support for those programs as well.

NPDES Permits now Required for Aquatic Applications

Despite having a 2/3's majority support in both the House and Senate, Sen. Barbara Boxer (CA) managed to block H.R. 872 from coming to the Senate floor for a vote. H.R. 872 ensures that pesticide applications over or near water are regulated through the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and fixes some misguided court decisions that have resulted in a duplicative and costly National Pollutant Discharge Elimination System (NPDES) permit.

On October 31, 2011, NPDES permits are now required for point

Washington Report - Continued

USDA Program Description	FY 2011	FY 2012	% Change
	(in thousands of dollars)		
APHIS	863,270	816,534	-5.4
ARS	1,133,230	1,094,647	-3.4
ERS	81,814	77,723	-5.0
NASS	156,447	158,616	1.4
NIFA	698,740	705,599	1.0
- Hatch Act	236,334	236,334	0.0
- Cooperative Forstry Research	32,934	32,934	0.0
- Improved Pest Mang't & Bio Control	16,153	15,830	-2.0
Expert IPM Decision Support System	156	153	-2.0
IPM	2,410	2,363	-2.0
IR-4	12,156	11,913	-2.0
Pest Mang't Alternatives (PMAP)	1,431	1,402	-2.0
- AFRI	264,470	264,470	0.0
- Sustainable Ag Res. And Ed. (SARE)	14,970	14,471	-3.3
Extension Activities	479,132	475,183	-0.8
- Smith Lever	293,911	294,000	0.0
Integrated Activities	36,926	21,482	-41.8

source discharges from applications of pesticides. Some examples of pesticide applications that now require NPDES permit coverage are applications made to control aquatic weeds or fish, flying insects above U.S. waters, or pests present near these waters, such that it is unavoidable that pesticides will be deposited to these waters during application. NPDES permits establish conditions under which discharges may legally occur. Provided that an operator meets the conditions of their permit, the operator may be shielded from Clean Water Act-related citizen lawsuits.

Agricultural water runoff and irrigation return flow, both of which may contain pesticides, are exempt from NPDES permit requirements. Also, pesticide applications to land that do not result in point source

discharges of pesticides to waters of the U.S., such as for controlling pests on agricultural crops, forest floors, or range lands, do not require NPDES permit coverage.

EPA is the NPDES permitting authority for six states (Alaska, Idaho, Massachusetts, New Hampshire, New Mexico, and Oklahoma), Washington, D.C., all U.S. territories except the Virgin Islands, most Indian Country lands, and federal facilities in Colorado, Delaware, Vermont, and Washington. The remaining 44 states and the Virgin Islands are authorized to develop and issue their own NPDES pesticide permits.

Please see the attached document "[State Pesticide NPDES Permit Requirements](#)" for a state by state breakdown of the requirements for obtaining an NPDES permit.

The Corps' Aquatic Plant Control Research Program Gets \$3 million

The Assistant Secretary of the Army for Civil Works, Jo-Ellen Darcy, made the poorly informed decision to eliminate funding the U.S. Army Corps of Engineers' Aquatic Plant Control Research Program (APCRP) in the FY 2012 budget. This is the nation's only federally authorized program for research and development of science-based management strategies for invasive aquatic weeds. There is no question that the work conducted by APCRP's 18 research staff has been effective, efficient, and invaluable in our nation's fight against foreign aquatic invaders. It would be a grave mistake by the Corps' to eliminate the expertise and institutional knowledge encompassed by APCRP.

Washington Report - Continued

We asked the Army Corps of Engineers and Congress to restore funding to \$4 million for FY 2012. While our efforts to get the funding restored by the House fell on deaf ears, the Senate Appropriations Committee included that amount in their mark-up of the FY 2012 Energy and Water appropriations bill. I am happy to report that the final conference agreement on the FY 2012 Energy and Water Appropriations bill provided \$3 million for APCRP.

Precarious State of U.S. Pesticide Safety Education Program – WSSA Press Release

Today scientists with the Weed Science Society of America (WSSA), the American Phytopathological Society (APS) and the Entomological Society of America (ESA) expressed concern about the precarious state of the U.S. Pesticide Safety Education Program (PSEP). Funding for the program has plummeted in recent years and is now in danger of evaporating completely.

As the nation's primary pesticide applicator training and education program, PSEP is responsible for ensuring the safety of applicators, other workers and the public, for protecting the environment and for providing guidance in the proper use and security of pesticides.

"In addition to certifying applicators and delivering education on the safe use of pesticides, the program today is tasked to provide guidance on a wide range of pesticide-related topics – from avoiding spray drift and minimizing development of pest resistance to protecting endangered species," says Lee Van Wychen, science policy director for WSSA.

Collectively, the U.S. Environmental Protection Agency

(EPA) and the U.S. Department of Agriculture (USDA) are responsible for ensuring that the nation's pesticide training needs are met. Since 1965, federal funds to support PSEP and its coordinators have been provided annually by EPA through USDA's Cooperative Extension System. In fiscal year 2000, for example, EPA provided \$1.9 million for PSEP, but in fiscal year 2011, EPA funding has been eliminated.

The only remaining source of federal funding for PSEP is \$500,000 mandated by the Pesticide Registration Improvement Renewal Act (PRIA II), which translates to only \$10,000 per state. However, this funding will end in fiscal year 2012 when the statutory authority of PRIA II expires. To compound the problem, most states have significantly reduced their funding for the personnel and basic services needed to support pesticide education through the Cooperative Extension System.

Statistics show close to 900,000 private and commercial applicators holding PSEP certification in 2010, including more than 100,000 new certifications and more than 225,000 applicators pursuing recertification. In addition, the program has educated more than a million other pesticide users.

"With nearly a 75 percent reduction in federal support for PSEP over the past decade, there is no question that states will not be able to deliver the same quality of PSEP training or to certify the same number of individuals," says Carol Ishimaru, APS president.

Earlier today, WSSA released a technical paper on PSEP that addresses its history, goals and funding. The paper also discusses proposed ideas for ensuring more stable financial resources for PSEP

in the future. Examples include:

Allocating additional dollars from federal and state pesticide product registration fees to cover education on the proper use of pesticides.

Pursuing grants from pesticide companies, commodity groups, conservation groups and others with an interest in pesticide safety education.

Changing policies, regulations and statutes to better support funding. For example, most states direct fines for improper use of pesticides into their general funds. These dollars would be an especially appropriate source of support for pesticide safety education.

"There is no one solution to the increasingly precarious state of the Pesticide Safety Education Program," Van Wychen says. "A grassroots effort is needed by stakeholders at the state and national level to overcome policy and regulatory impediments and to ensure the program's sustainability and focus."

The WSSA technical paper on pesticide safety education is available on the WSSA website: [View the technical paper.](#)

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SAVE THE DATE – the next National Invasive Species Awareness Week (NISAW) will be held February 26 to March 3, 2012 in Washington DC. A week of activities, briefings, workshops and events focused on strategizing solutions to address invasive species prevention, detection, monitoring, control and management issues at local, state, tribal, regional, national and international scales.

HIGHLIGHTS INCLUDE:

- National Invasive Species Council public meeting
- Grassroots action to prevent and control invasive species – Panel discussions and Webinar
- Success stories and challenges
- Cooperative Weed and Invasive Species Management Areas and Tribal efforts
- Capitol Hill Briefings on aquatic invasive species, including quagga and zebra mussels and Asian Carp
- Workshop on invasive species prevention and management in urban areas
- Invasive Species Award Ceremony and Reception
- Kids Invasive Species Awareness Day at the US Botanic Garden
- Invasive Plant Issues and Solutions
- Prevention through outreach and awareness – Experts panel on lessons learned
- Invasive Species Solutions – poster session
- Update by federal agencies on important invasive species issues and initiatives

State and Local events highlighting invasive species efforts throughout the country!

Check www.nisaw.org for more details and further developments.



UPDATE

2012 NORTH AMERICAN INVASIVE PLANT ECOLOGY AND MANAGEMENT SHORT COURSE

January 31, 2012. A new feature, “Interviews with NAIPSC”, has been added to the North American Invasive Plant Ecology and Management Short Course (NAIPSC) website (<http://ipscourse.unl.edu>). The NAIPSC has been conducting interviews with individuals who are familiar (or not so familiar) with invasive plants. Read about some of the NAIPSC instructors and their thoughts on invasive plants and similar topics. The first interview is with Steve Young, organizer, moderator, and an instructor for the NAIPSC, who shares his thinking behind the development of the NAIPSC and what makes an outstanding course. Be sure to check back regularly or follow the NAIPSC on Facebook or Twitter. The second annual NAIPSC will be held June 26-28, 2012 at the University of Nebraska-Lincoln West Central Research & Extension Center in North Platte, NE.

NECROLOGY



Eric D. Hoiland, 43, of Rushford, Minn. died on Saturday, February 18, 2012, at Rochester Methodist Hospital in Rochester, Minn.

Eric was born on January 30, 1969, in Winona, Minn. to Stanley and Elizabeth (Semmen) Hoiland. Eric was raised in Rushford and graduated from Rushford High School in 1987. While in high school, Eric was active in FFA, football and wrestling. He received his Associates Degree from the University of Minnesota - Waseca, his Bachelors Degree in Agriculture from the University of Minnesota - Twin Cities, and his Masters Degree in Agronomy from Iowa State University under the supervision Dr. Micheal D.K. Owen. After graduating from Iowa State, Eric stayed there to do a work study research project in agronomy studies. He then moved back home to Rushford where Eric farmed with his brother, Phillip. He also started his own turkey farming business, known as Hoiland Mill Turkeys. In addition, Eric farmed cattle and pumpkins.

As a result of the 2007 flood in Rushford, Eric's farm was destroyed. Rather than giving up, Eric looked at that as an opportunity to fulfill his life-long dream of renovating the Hoiland Mill. After two years of renovation efforts, the mill became the Feed Room Café in 2010.



2012 NCWSS CONTEST

The 2012 NCWSS Contest will be held Aug. 8 and 9 at the Diamond Ag Research Facility near Larned, KS.

Follow this link <http://www.ncwss.org/weed-contest.php> to access the registration information, volunteer sign-up form, directions and hotel list, the weed list, and the unknown herbicide and crop list.

The contest rules and regulations can be found also at the NCWSS website under the heading "About NCWSS", Operating Procedures pp 29-31.

For questions, please contact: Audrey Allison, 620-285-3380
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Reid Smeda	Past Chair	573-882-1329	smedar@missouri.edu

Section Program Chairs

General Program

Dave Johnson	Program Chair	515-535-7234	david.h.johnson@pioneer.com
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Board and Committee Members - Continued

Poster Session

Gordon Vail	Chair	336-632-5596	gordon.vail@syngenta.com
Dave Ruen	Vice Chair	507-467-2375	dcruen@dow.com
Helen Flanigan		317-862-0578	helen.a.flanigan@usa.dupont.com
Jeff Stachler		701-231-8131	jeff.stachler@ndsu.edu
Jerry Hora	Past Chair	563-662-5013	jerry.hora@bayer.com

Graduate Student Paper Awards

Cheryl Dunne	Chair	772-794-7146	cheryl.dunne@syngenta.com
Fritz Koppatschek	Past Chair	317-415-0553	fkoppatschek@abgaservices.com

Graduate Student Poster Awards

VACANT	Chair	VACANT	
Cheryl Dunne	Past Chair	772-794-7146	cheryl.dunne@syngenta.com

Agronomic Crops I (Cereals, Sugar Beets, Dry Beans)

Aaron Franssen	Chair	402-643-9252	aaron.franssen@syngenta.com
Aaron Waltz	Vice Chair	608-756-4030	aaron.waltz@pioneer.com

Agronomic Crops II (Corn, Sorghum)

Walter Thomas	Chair	919-547-2549	walter.e.thomas@basf.com
Ryan Lins	Vice Chair	507-251-5524	ryan.lins@syngenta.com

Agronomic Crops III (Soybeans, Legumes, Forage and Range)

Mike Weber	Chair	515-962-9214	michael.weber@bayer.com
Mark Waddington	Vice Chair	618-334-6789	mark.waddington@bayer.com

Equipment and Application Methods

Greg Kruger	Chair	308-696-6715	gkruger2@unl.edu
Lillian Magidow	Vice Chair	651-600-1028	lcmagidow@landolakes.com

Extension

Doug Shoup	Chair	620-212-2399	dshoup@ksu.edu
Vince Davis	Vice Chair	608-262-1392	vmdavis@wisc.edu

Herbicide Physiology

Andy Robinson	Chair	765-414-6615	arobins@purdue.edu
Ryan Lee	Vice Chair	812-855-0848	ryanlee@indiana.edu

Invasive Weeds

Steve Young	Chair	308-696-6712	syoun4@unl.edu
Catherine Tarasoff	Vice Chair	906-487-2396	ctarasof@mtu.edu

Forestry, Industrial, Turf, Aquatics, Forage and Range

Reid Smeda	Chair	573-882-1329	smedar@missouri.edu
Scott Flynn	Vice Chair	515-964-7641	flynn@dow.com

Horticulture and Ornamentals

Darren Robinson	Chair	519-674-1604	drobinso@ridgetownc.uoguelph.ca
Collin Auwarter	Vice Chair	701-231-8471	collin.auwarter@ndsu.edu

Weed Biology, Ecology and Management

Marty Williams	Chair	217-244-5476	mmwillms@illinois.edu
Kris Mahoney	Vice Chair	608-342-1363	mahoneykr@uwplatt.edu

PEOPLE AND PLACES

Arrival of new staff member and student at Purdue University

The newest member of the Purdue University weed science program is Travis Legleiter, whom arrived on campus in early January. Travis has accepted the weed science program specialist position and will fill that position while working to obtain a PhD under the direction of Dr. Bill Johnson. The responsibilities of the weed science program specialist include contributions to newsletter articles and Purdue extension publications, extension presentations at local and regional meetings, support and contributions to the Purdue Diagnostic Training Center, and diagnosis of weed samples received by the Purdue Plant Diagnostics Lab.

Travis is a former member of the University of Missouri weed science staff, where he also received his MS under the direction of Dr. Kevin Bradley. He looks forward to bringing his knowledge gained at Missouri to producers in Indiana as well as expanding and diversifying his weed science knowledge through his new position and degree program.



New Faculty at Kansas State University

Dr. Mithila Jugulam joined the Weed Science group at Kansas State University as an Assistant Professor in October 2011. She is responsible for research and teaching in the areas of weed and herbicide physiology and herbicide resistant weeds and crops. Dr. Jugulam is originally from India, completed Ph.D. at the University of Guelph in Ontario, Canada, and she has been active as a Research Associate at University of Guelph until her arrival in Kansas.



<http://events.isaa-online.org/page/163/welcome-to-isaa-2013.html>

ISAA 2013 - 10th International Symposium on Adjuvants for Agrochemicals

Hyperlink: <http://events.isaa-online.org>

Dates: April 22 - 26, 2013

Organizer: International Society for Agrochemical Adjuvants (ISAA Society)

Country: Brazil

City: Foz do Iguaçu

Positions Available

Extension Educator 3 (Extension Educator, Agronomy) Western PA – Armstrong, Indiana, and Westmoreland Counties

Campus/Location:	Penn State Extension	Date Announced:	02/24/2012
		Date Closes:	03/29/2012
Work Unit:	College of Agricultural Sciences	Job Number:	36065
Department:	District 6 - Armstrong, Indiana, Westmoreland Counties	Level/Salary Band/ Classification:	03 - H - Exempt

This individual will function as a member of the Penn State Field and Forage Crops State Team, representing Penn State and the College of Agricultural Sciences in interpreting, applying, and disseminating the latest research findings in agronomy. The individual will also support local needs working collaboratively with staff in Extension District 6 (Armstrong, Indiana and Westmoreland counties).

Major responsibilities will include planning, implementing, conducting and evaluating a broad range of educational programs for adults and youth who need assistance in the area of agronomy and agriculture. This includes maintaining and expanding existing agronomy and agriculture programs, supervision of programs delivered by extension assistants, building community collaborations and partnerships, managing an expanding revenue enhancement portfolio and developing a professional development plan. Identify problems, opportunities, and educational needs of clientele (both producer and industry groups) in the broad areas of agronomy, forage production, soil and nutrient management, worker protection standards, and integrated pest management programs. Conduct needs assessment, evaluation and maintain relationships with key stakeholders to help identify additional agriculture program needs across the District/State. Write and secure grants and develop revenue enhancement strategies to obtain additional resources to initiate new educational programs or enhance ongoing programs. Operate in a team environment with faculty, educators and other staff. Assist in the development of a statewide educational business plan to support the state Field and Forage Crop Management Team working on agronomy/agriculture programs. Develop an Action Plan followed by an Accomplishment Report that will be reviewed by the EPL and District Director. Responsible for submitting program, administrative and financial reports as appropriate.

Requires a Master's degree or higher plus two years of related experience or an equivalent combination of education and experience. Preference will be given to candidates with degrees in Agronomy, Agriculture, Agricultural Economics, or General Ag and have related work experience in education or industry. Candidates should have a basic knowledge of and commitment to food and agriculture, and enjoy the challenge of working as a part of a team on a wide variety of educational efforts. Candidates must possess effective communication skills (verbal and written), teaching skills, interpersonal skills, ability to build effective working relationships with colleagues and clientele, and work as a member of a team. The candidate must be organized and able to manage multiple projects simultaneously. Desired experience includes: writing articles for clientele information and formal reports, managing grants, and providing leadership. Proficiency in use of computer software packages such as Word, Excel, Publisher and PowerPoint. Must have the ability to carry equipment, educational materials and supplies with or without accommodation and the ability to travel. Must possess a valid driver's license and use of a private automobile.

For application information visit - <http://psu.jobs/Search/Opportunities.html>.

This is job #35065 under Job Family: Education. If you have additional questions contact Gary Sheppard (gls4@psu.edu) or Bill Curran (wcurran@psu.edu), search committee co-chairs.

The position closing date is March 29, 2012 with candidate screening soon thereafter.

Positions Available - Continued



POSTDOCTORAL RESEARCH ASSOCIATE, (Research Agronomist or Plant Physiologist) for a TWO YEAR APPOINTMENT.

The USDA, Agricultural Research Service, Global Change and Photosynthesis Research Unit in Urbana, Illinois, is seeking a POSTDOCTORAL RESEARCH ASSOCIATE, (Research Agronomist or Plant Physiologist) for a TWO YEAR APPOINTMENT. Recent Ph.D. is required. Salary is commensurate with experience plus benefits. Citizenship restrictions apply. The incumbent will conduct research to quantify the effect of climate change on risk of herbicide injury in corn. Specifically, the incumbent will 1) study the extent to which variable environmental conditions influence corn sensitivity to cytochrome P450-metabolized herbicides, and 2) identify the role of different cytochrome P450 alleles and crop safeners in mitigating injury under future climate scenarios. Knowledge of herbicide physiology, plant-environment interactions, and genetics is required. Working knowledge of molecular biology (e.g., PCR) and protein biochemistry (e.g., immunoblotting) is highly desirable. Refer to:

<http://www.afm.ars.usda.gov/divisions/hrd/hrdhomepage/vacancy/pd962.html> for further information on Postdoctoral Research Associate Jobs, for complete application instructions, and the full text announcement (RA-12-024-H).

Send application materials and references to:

Dr. Martin Williams II, USDA/ARS Global Change and Photosynthesis Research Unit, N-325 Turner Hall, 1102 S. Goodwin Ave., Urbana, IL 61801 or e-mail (Martin.Williams@ars.usda.gov).

This position is open until filled. USDA/ARS is an equal opportunity provider and employer.

If you are a member of the NCWSS and have material you would like to submit to the News-letter, please send it to:

Harlene Hatterman-Valenti at H.Hatterman.Valenti@ndsu.edu