



# Awards Program

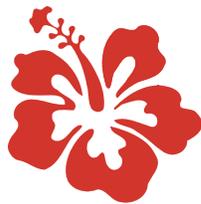
## Monday, March 2, 2020

### 4:00 - 6:00 PM



## Hyatt Regency Maui

### Lahaina, Hawai'i



#### Presiding WSSA

Dr. Larry Steckel

#### Presiding WSWS

Pat Clay

#### Presentation of Honors & Awards WSSA

Dr. William Curran

#### Presentation of Honors & Awards WSWS

Pat Clay

#### Awards

- Outstanding Extension
- Outstanding Research
- Outstanding Graduate Student
- Outstanding Teacher
- Outstanding Weed Scientist, Public Sector - WSWS
- Outstanding Weed Scientist, Private Sector - WSWS
- Outstanding Early Career Weed Scientist - WSSA
- Outstanding Early Career Weed Scientist - WSWS
- Outstanding Industry
- Public Service Award
- WSSA Excellence in Journalism Award
- Outstanding Achievement Award, Weed Manager - WSWS
- Outstanding Paper-Invasive Plant Science & Management
- Outstanding Paper-Weed Science
- Outstanding Paper-Weed Technology
- Outstanding Reviewers
- WSSA Fellows and Honorary Member
- WSWS Fellows and Honorary Member

#### Subcommittee Chair

- Larry Steckel
- Ramon Leon
- Chris Marble
- Reid Smeda
- Lesley Beckworth
- Lesley Beckworth
- Franck E. Dayan
- Lesley Beckworth
- Gary Schwarzlose
- Mike Barrett
- Carroll Moseley
- Lesley Beckworth
- John Madsen
- Jim Brosnan
- Jason Bond
- Sarah Ward
- Krishna Reddy
- Jill Schroeder

## WEED SCIENCE SOCIETY OF AMERICA AWARDS

**FELLOWS.** The nominees must be active members of the WSSA at the time of their nomination and have been active members for at least 10 years. They must have made substantial contributions in more than one of the following areas: (1) professional publications, (2) educational contributions other than publications, (3) development or improvement of weed science programs, practices, and products, (4) other professional contributions, (5) service to WSSA or regional conferences, and (6) service to the profession outside the society. Up to 0.25 percent of the active membership of WSSA may be elected to fellowship in one year.

**HONORARY MEMBER.** Honorary memberships are given for significant contributions to the field of weed science. Active membership in WSSA is not a requirement.

**OUTSTANDING INDUSTRY AWARD.** The recipient must be a member of the WSSA and be employed in private industry. This award recognizes professional accomplishments via products, processes, patents, and publications.

**OUTSTANDING REVIEWERS.** This award recognizes WSSA journal reviewing excellence. Winners of the award are determined by Associate Editor Reviewer rankings and

completed review times. The two reviewers with the highest rankings (composite score of quality, number and return times) receive the award.

### ANNUAL MEETING GRADUATE

**STUDENT GRANTS.** The purpose of these grants is to encourage the involvement of graduate students in the annual WSSA meeting early in their degree programs, and to broaden the attendance of graduate students from nontraditional weed science research programs. The grants are limited to students for their first time WSSA meeting attendance.

**UNDERGRADUATE RESEARCH AWARD.** A competitive research grant awarded to undergraduate students to encourage and support undergraduate involvement in weed science research. Sponsored by WSSA Endowment.

**EXCELLENCE IN JOURNALISM AWARD.** Awarded annually to an individual(s) for excellence in journalistic coverage that increases public understanding of science-based information related to weeds and fosters awareness of weeds and their impacts on managed and natural ecosystems. Sponsored by WSSA.

## INDUSTRY-SPONSORED AWARDS

**OUTSTANDING TEACHER AWARD.** To be eligible for this award, the nominee must be currently active in teaching weed science. The recipient must have taught a weed science course(s) at least five times or have served as major professor for at least five students who have received advanced degrees and whose research was in weed science. Sponsored by Syngenta.

**OUTSTANDING RESEARCH AWARD.** This award is for research workers who have demonstrated originality and creativity and whose work has had an impact in the field of weed science. The award is established to recognize outstanding contributions to both applied and basic weed science research. Sponsored by Corteva Agriscience.

**OUTSTANDING GRADUATE STUDENT AWARD.** The student must be a candidate for the MS or PhD degree or have received the degree within the past twelve months at the time the award is presented. The student should have made a notable contribution to weed science and should have a good academic record and sound training in weed science. Above all, the recipient must be recognizable as a truly outstanding individual with excellent potential for continued development. Sponsored by Corteva Agriscience.

**OUTSTANDING EXTENSION AWARD.** The recipient of this award must have been active in extension work for four out of the past five years and must devote at least 75 percent of their extension activities to weed science work. Sponsored by Corteva Agriscience.

**OUTSTANDING PAPER IN INVASIVE PLANT SCIENCE AND MANAGEMENT.** This award is given to the author(s) of the

paper published and judged to be the outstanding contribution in the journal, *Invasive Plant Science and Management*. Sponsored by Cambridge University Press.

**OUTSTANDING PAPER IN WEED SCIENCE.** This award is given to the author(s) of the paper published and judged to be the outstanding contribution in the journal, *Weed Science*. Sponsored Cambridge University Press.

**OUTSTANDING PAPER IN WEED TECHNOLOGY.** This award is given to the author(s) of the paper published and judged to be the outstanding contribution in the journal, *Weed Technology*. Sponsored Cambridge University Press.

**OUTSTANDING EARLY CAREER WEED SCIENTIST AWARD.** This award is for young scientists who have demonstrated originality and creativity and who have made a notable contribution to weed science and have potential for continued excellence. Nominees are eligible for consideration for the Weed Science Society of America 'Early Career Outstanding Scientist Award' if they demonstrate accomplishments in a career in the discipline of weed science for no more than ten (10) years since completion of their terminal degree. The years are further qualified as not calendar years but years. Sponsored by BASF.

**PUBLIC SERVICE AWARD.** Awarded annually to a WSSA member for accomplishments in advancing Public understanding of the scientific principles of Weed Science (including but not limited to the study of weeds, their place in the environment, and the means by which they may be controlled and/or managed). Sponsored by Bayer US – Crop Science.

## Western Society of Weed Science Awards

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

**Honorary Member.** 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.

**Outstanding Weed Scientist.** This award recognizes outstanding achievements in weed science from individuals in both the public and private sectors. Principle criteria for this award includes innovative or unique approaches that result in learning, ability to clearly communicate ideas, motivation of the intended audience, demonstrate excellence and creativity in research accomplishments, applying results to solve problems in weed science, the impact on weed management practices and principals of weed science, and recognition of accomplishments by peers and intended audiences.

**Outstanding Weed Scientist - Early Career.** This award is to be given to members in the private and public sectors with no more than 10 years of service after completion of their terminal degree. This award recognizes outstanding achievements in weed science early in the individual career with the same criteria as the outstanding weed scientist above.

**Weed Manager.** This award recognizes outstanding and sustained contributions in support of weed science activities. This award is intended for those paid by taxpayers and are working in the public sector, such as employees of state departments of agriculture, weed boards, public land managers, and vegetation management personnel. The nominee must have been involved in the WSWs and weed science for at least five years at the time of nomination.

**Professional Staff.** This award recognizes outstanding and sustained contributions in support of weed science activities. Nominees will be restricted to individuals that work under the direction of university, federal, or industry scientists. These individuals may have titles such as researcher, research associate, technician, support scientist, or specialist. The nominee must have been involved in the WSWs and weed science research, extension, or resident education for at least five years at the time of nomination.

# 2020 Awards

## Outstanding Extension Award - WSSA

### Dr. John Byrd



John D. Byrd, Jr. was raised on a small cotton and tobacco farm near Hartsville, SC. He learned the importance of integrated weed management at a young age with a hoe. He received a B.S. from Clemson University, then M.S. and Ph.D. degrees from North Carolina State University. Over his career as Extension Weed Specialist and Professor at Mississippi State University, he has been responsible for extension weed control education for agronomic and horticultural crops, turfgrass, forages, wildlife food plots, roadside and utility rights of way vegetation management, invasive weeds, Master Gardener training, sprayer calibration workshops, etc. His research efforts currently focus on forages, rights of way, and invasive weeds. He currently has 2 graduate students and has served on committees of 79 additional students.

He received the Outstanding Young Weed Scientist (2001) and Fellow (2019) Awards from the Southern Weed Science Society, the Alumni Association Faculty Recognition Award for Service (2003) from the Mississippi State University Alumni Association, the Dr. Mark E. Keenum Outstanding Extension Faculty Award (2018) and Extension/Outreach Superior Faculty Award (2019) from Mississippi State University, as well as several others. He has served on numerous committees of both the Southern Weed Science Society and Weed Science Society of America.

He has more authored or co-authored numerous Extension publications, abstracts, and refereed journal articles.

## Outstanding Research Award - WSSA

### Dr. Patrick J. Tranel



Patrick Tranel was raised on a crop and livestock farm in northern Illinois. He received B.S., M.S., and Ph.D. degrees from Iowa State University, Washington State University, and Michigan State University, respectively. After a one-year post-doc with Monsanto, Pat joined the faculty of the University of Illinois in 1997, where he has remained since.

Pat's research program uses molecular and genomics tools to address weed science issues. His lab is internationally recognized for its numerous contributions that have increased our understanding of the evolution and underlying mechanisms of herbicide resistance. Current research foci include genetic mapping of nontarget-site resistance genes and elucidating sex-determination mechanisms in dioecious amaranths. Pat also collaborates extensively with more applied weed scientists at the University of Illinois and elsewhere, fostering a research program that is timely and relevant to weed management practitioners. Pat actively engages his clientele regarding the practical implications of his research, much of which is translational. For example, his lab pioneered the use of molecular tests for herbicide resistance in waterhemp.

Pat has authored/coauthored 100 research papers, 17 review articles, and 7 book chapters. His research contributions were facilitated by 29 graduate students and postdocs, as well as by collaborations with numerous University of Illinois and WSSA colleagues.

In addition to his research contributions, Pat also has contributed significantly to formal training of future weed scientists and practitioners. Roughly 1000 undergraduate students have taken his introductory weed science course; several of these students have been inspired to pursue a career in weed science.

Pat serves on the editorial boards of four journals, including service as an Associate Editor of Weed Science since 2002. He is a Fellow of the North Central Weed Science Society. Pat currently holds the Ainsworth Professorship and is Associate Head of the Department of Crop Sciences at the University of Illinois.

## **Outstanding Graduate Student - WSSA**

### **Hudson Takano**



Hudson Takano grew up on a farm in Southern Brazil where his family grow soybean, corn, orange, cassava and cattle. Hudson has dedicated his entire education to agriculture and weed science. He received his BS and MS in Agronomy from the State University of Maringá, Brazil. Hudson's MS research investigated the population genetics, resistance mechanisms, and management of glyphosate-resistance in grass species. In April 2017, Dr. Phil Westra recruited him to join the Weed Research Institute at Colorado State University as a PhD student under the supervision of Dr. Franck Dayan to work on herbicide mechanisms of action and resistance. Hudson graduated in December 2019 with his PhD dissertation entitled "Physiological and biochemical mechanisms behind the fast action of glufosinate". Hudson's PhD research provided a new understanding on the mechanism of action of glufosinate, and a biochemical approach to enhance herbicidal activity on weeds. In addition to his main project, Hudson has worked on multiple side projects focusing on understanding molecular and biochemical herbicide resistance mechanisms in weeds. He has also trained several CSU students as well as people visiting from other universities. Hudson's PhD research generated 11 peer-reviewed publications, 1 book chapter and 1 patent application. As a PhD student, Hudson received 5 oral presentation awards in national and international meetings including the WSSA, and 11 other awards/scholarships from CSU, professional societies, or industry. Hudson has taught graduate level classes on Plant Biochemistry in Agriculture and Herbicide Mode of Action as a guest lecturer. Hudson is also a significant Ad-Hoc reviewer, having reviewed more than 20 manuscripts for scientific journals as a graduate student. As a young scientist, Hudson has already made significant contribution to the Weed Science discipline and will continue to do so throughout his career.

## Outstanding Teacher Award - WSSA

### Dr. Baruch Rubin



Professor Emeritus Baruch Rubin received his Ph.D. from the Hebrew University of Jerusalem (HUJI), in 1976 a post-doc training in Michigan State University, until 1978. He was employed as a Lecturer of Weed Science and Agronomy at the Faculty of Agriculture, Food and Environment of the Hebrew University in 1978, promoted to a tenured Senior Lecturer 1983, Associate Professor in 1989 and Full Professor in 1995. At present, as Professor Emeritus, he is active in research and teaching weed science for graduate students.

During his long service at the Hebrew University, he taught three courses in weed science under-graduate and graduate students, and supervised more than 110 MSc and PhD students. He published more than 200 peer-reviewed papers and book chapters.

He served as head of the RH Smith Institute of Plant Sciences and Genetics in Agriculture, Faculty of Agriculture, Food and Environment of the Hebrew University of Jerusalem. He was a post-doc in the Department of Crop and Soil Sciences in Michigan State University (1976-1978), and a visiting scientist at UC Berkeley, California (1983-4); Long Ashton Research Station, University of Bristol, UK (1989-90), and at Zeneca Agrochemicals Jellots Hill Research Station (Now Syngenta), UK (1996-7). He also spent a sabbatical leave in AHRI - Australian Herbicide Resistance Initiative, Australia (2002-2003), and at University of São Paulo, Piracicaba, Brazil (2012).

Internationally, he is a member of WSSA since 1972. He served as President of the International Weed Science Society (IWSS) and continue to serve as an ex-officio member of the IWSS Board; A member of the Scientific Committee, European Weed Research Society (EWRS), and as the founder and first coordinator of the EWRS Working Group – “Weed Management in Arid and Semi-Arid Climate.” He served as Vice President and now as a board member of IAAPS (International Association for the Plant Protection Sciences). He is the Honorary President of the Weed Science Society of Israel (WSSI), and Honorary Member of WSSA. He received honorary Awards from: WSSI; IAPPS; Weed Science Society of India and the Israel Cotton Board.

## Outstanding Weed Scientist Public Sector - WSWs

### Timothy Harrington



Timothy B. Harrington received a B.S. degree in botany (1980) from Louisiana State University and M.S. (1982) and Ph.D. (1989) degrees in forestry from Oregon State University (OSU). In the 1980's, he was a researcher in the forest vegetation management cooperative at OSU. In the 1990's, Tim was an Associate Professor of Forestry at the University of Georgia in Athens. Since 2002, he has worked as a scientist for the USDA Forest Service, Pacific Northwest Research Station (PNW) in Olympia WA. Tim has authored over 140 publications on topics of silviculture, vegetation management, and forest ecology. His vegetation management research includes long-term studies on hardwood control, chemical

site preparation, conifer release from competition, and native plant community restoration. His recent work has focused on the biology, control, and prevention of nonnative Scotch broom. Currently Tim serves as Team Leader for the Insects, Pathogens, and Stressors Team in PNW. Tim's first WSWs meeting was in Las Vegas, NV in 1983.

## **Outstanding Weed Scientist Private Sector - WSWS**

### **Stephen “Marty” Schraer**



Marty Schraer is a senior research and development scientist with Syngenta covering Idaho, Oregon, Utah, and Nevada. He began his career in 1999 with Zeneca Ag Products as the Weed Scientist for the Southern Regional Technical Center in Leland, MS. Marty holds a PhD in Weed Science from Mississippi State University, as well as B.S. and M.S. degrees in Entomology from Texas A&M University. Marty grew up on a cotton and grain sorghum, family farm in west Texas.

Marty currently lives in Meridian, ID, with his lovely wife, Kelly, and their three children, Luke, Levi, and Markley.

## **Outstanding Early Career Weed Scientist - WSSA**

### **Muthukumar Bagavathiannan**



Dr. Bagavathiannan was born and raised on a diversified farm in rural Tamil Nadu, a southern state in India. His deep-rooted passion for agriculture led him to a BSc in Agriculture at Tamil Nadu Agricultural University, Coimbatore where he also completed an MSc in Agronomy under the supervision of Dr. Velayudham Kumaran. He received a prestigious scholarship from the British Council, London and completed an MSc in Plant Genetic Manipulation, with distinction at the University of Nottingham, England, working with plant physiologist Dr. Martin Broadley. Following that, Dr. Bagavathiannan was awarded the University of Manitoba Graduate Fellowship and a Manitoba Govt. Scholarship to undergo a PhD program in Weed Ecology at the University of Manitoba, Winnipeg, Canada, under the mentorship of Dr. Rene Van Acker. He conducted his postdoctoral research in weed biology and herbicide resistance modeling at the University of Arkansas-Fayetteville with Dr. Jason Norsworthy, prior to his appointment as a Weed Science faculty (25% teaching; 65% research; 10% service) at the Department of Soil and Crop Sciences, Texas A&M University, College Station. Dr. Bagavathiannan is currently an Associate Professor with tenure in the department.

Dr. Bagavathiannan’s research interests fall within the broader area of Weed Science and Agronomy, with particular emphasis on weed ecology and management. The threat of herbicide resistant weeds is immense in agronomic and turf systems, among others, leading to loss of effective herbicide options and reduced profitability. To this effect, the prime goal of his research program is to understand the evolutionary biology and dynamics of herbicide resistance in weed communities and develop integrated weed management (IWM) solutions for effectively targeting weed seedbanks. More recently, Dr. Bagavathiannan’s program has a substantial focus on the application of digital tools in precision weed management and ecology. He takes an inter-disciplinary approach in tackling these challenges, by collaborating broadly at local, regional, national, and international levels. He leads or participates on a number of multi-state research projects focusing on integrated weed management.

Dr. Bagavathiannan has published over 65 peer-reviewed journal articles, 10 book chapters and several outreach bulletins. He has so far mentored 3 PhD students, 3 MS students, 4 postdoctoral

researchers, 2 research assistants, 5 visiting scholars, 12 student interns, and 8 undergraduate researchers; and is currently mentoring 6 PhD students, 2 MS students, 1 visiting scholar, 1 student intern, and 2 undergraduate researchers. He chairs the WSSA Herbicide Resistant Plants Committee and a member of the WSSA Website Committee. He serves as an Associate Editor for Weed Science (WSSA) and Crop Science (CSSA) journals, and served on a number of USDA-NIFA grant review panels. Dr. Bagavathiannan was the recipient of the 2018 Dean's Outstanding Early Career Research Award and the 2019 Vice Chancellor's Outstanding Early Career Research Award from the College of Agriculture and Life Sciences, Texas A&M University.

## **Outstanding Weed Scientist - Early Career - WSSWS**

### **Vipan Kumar**



Dr. Vipan Kumar is an Assistant Professor of Weed Science (with 100% research appointment) at Kansas State University, Agricultural Research Center in Hays, KS. Vipan grew up on a small family farm in northwestern Punjab (a bread basket of India). He completed his Diploma in Agriculture (two year program) from Institute of Agriculture in Gurdaspur, Punjab (India) in 2004. He graduated from Punjab Agricultural University, India in 2008 with a B.S. in Crop Science. Vipan received his M.S. from Louisiana State University in Agronomy in 2011 and Ph.D. from Montana State University in Plant Science in 2015. He worked as a Postdoctoral Scholar for two years at Montana State University Southern

Agricultural Research Center near Huntley, MT before beginning his position at K-State in 2017. Dr. Kumar has an innovative research program that evaluate and develop cost-effective, integrated weed management strategies for irrigated and dry land cropping systems of Kansas and the High Plains region. Since 2017, he has secured >\$1.2 million (as PI/Co-PI) in extramural grants and contracts. Vipan has published 38 refereed journal articles, 14 extension articles/technical reports, 104 abstracts in conference proceedings, and documented 4 new cases of herbicide-resistant weeds across U.S. Great Plains. His extension activities at K-State since 2017 included 12 field days and field tours, 8 media talks, and 36 invited presentations at various industry, grower, and commodity group meetings region wide. Vipan has served as major Advisor/co-Advisor of 2 M.S. students; committee member of 4 other graduate students; advised one postdoctoral fellow and hosted one visiting scholar. He has served as an Associate Editor for Agronomy journal since 2017. He is an active member and serves on several committees of the Weed Science Society of America (WSSA), North Central Weed Science Society (NCWSS), and Western Society of Weed Science (WSWS), including the Chair of Herbicide Resistant Plants Committee (WSWS). He is serving as a reviewer for Weed Technology, Weed Science, Pest Management Science, Crop Protection, Agronomy Journal, Nature Scientific Reports, and PLoS ONE. Vipan has been honored with the Elena Sanchez Memorial Outstanding Graduate Student award from the Western Society of Weed Science in 2015.

## Outstanding Industry Award - WSSA

### Terry R. Wright



Terry's education includes BS degrees in Agronomy and Biochemistry and a PhD in herbicide physiology from Michigan State University and a MS degree in Weed Science from Washington State University. His professional career includes 2 years with BASF and 22 years with Dow AgroSciences and now Corteva Agriscience. Terry has focused on herbicide resistance mechanisms and strategies in both weeds and crops for over 25 years. He has been involved in discovery, development, launch, and support of many Corteva's herbicides including acetochlor, cyhalofop, penoxsulam as well as the extensive portfolio of synthetic auxin related technologies from clopyralid and fluroxypyr to the new arylpicolinate herbicides. His research team was responsible for the discovery and early stage development of the trait portfolio behind the Enlist™ Weed Control System launched in corn, cotton, and soybeans. He has served on various committees for herbicide resistance plants (NCWSS, SWSS, WSSA) as well as industry-sponsored HRAC-NA, HRAC-Auxin Working Group, and presented plenary talks and co-led an auxin resistance symposium in Global Herbicide Resistance Challenge meetings in Perth and Denver, respectively. Beyond weed management, Terry's career has focused on Intellectual Property strategy and portfolio management across Crop Protection and Seeds & Traits platforms. Terry is currently a Corteva Distinguished Fellow and his current role is Global Technical Educator supporting launches for an array of late-stage technologies. Terry is grateful for the generations of scientists that enabled his efforts and for the numerous colleagues and peers who collectively made his contributions possible and who inspired him to work harder. Terry focuses significant effort to transfer knowledge, skills, and encouragement through mentoring programs and supporting writing and review of refereed publications.

## WSSA Public Service Award

### Susan Koehler, Ph.D.



Susan Koehler received her B.S. in Agronomy from the University of Kentucky. She then worked four years as a Biologist at Monsanto using tissue culture to screen chemicals and regenerate plants. Next she earned a Ph.D. in Plant Biology from Washington University, St. Louis, MO. Her public career began in 1990 as a post-doc at the USDA-ARS-Beltsville in the Plant Molecular Biology and Soybean and Alfalfa Research Labs. Since 1994, she's served at the Animal and Plant Health Inspection Service (APHIS), Biotechnology Regulatory Services (BRS). She is currently an Agriculturalist assisting in development, communication, and coordination of APHIS biotechnology policy and regulations with other agencies, and ensuring that best science is used to support agency decisions through reviewing documents and engaging scientific societies and NGOs.

At APHIS, Dr. Koehler was first a Biotechnologist, then a Branch Chief supervising biotechnologists that review and prepare plant pest and environmental risk assessments for applications to introduce genetically engineered (GE) plants and for petitions for deregulation covering many species and GE traits, especially herbicide resistance (HR). Dr. Koehler made significant contributions to APHIS' processes, coordination and communication on biotechnology, HR crops, and pest management. She assisted in development/revision of BRS User Guides for notifications and permits; criteria for review

and approval of GE field trials, including pharma and industrial plants and processes for compliance incidence response; policies for large-scale trials of GE crops and perennials; plant pest and weediness assessments. In 2015 she participated in APHIS' emergency response to the avian influenza outbreak. For 2018-2020, she reviewed cooperative agreements for APHIS-PPQ funding for plant pest mitigation, education and outreach. As a BRS grants manager, she contributed to a 2019 Report by a National Academies Committee on the Potential for Biotechnology to Address Forest Health, and another project for a publicly-accessible, online searchable database on advances in bioengineered products. She also participates on an interagency initiative to develop and distribute science-based ag-biotech consumer education and outreach material.

For twenty years, Dr. Koehler has facilitated information sharing between USDA, EPA, and WSSA to support science-based assessments for key decisions on HR crops and use of companion herbicides and their stewardship. She contributed to the 2011 USDA Report to Congress on Herbicide Resistance. On the WSSA Herbicide Resistance Education and Public Awareness Committees, she provided support and input to numerous APHIS grants to WSSA, activities and press releases on the impacts, science, policy and regulations related to HR, weeds and weed management. These grants facilitated publications and national and regional workshops and listening sessions on the status of HR crops and weeds, challenges, obstacles, opportunities, and recommendations on best management practices and actions for federal and state agencies, local communities and other stakeholders to promote HR management, some of which are being implemented. She coordinated with other federal agencies to support scientifically-sound policies, regulatory decisions and grants on pest management, including those of the EPA and NIFA, revised the National Roadmap for IPM, and co-authored a report on threats to precision agriculture.

## **WSSA Excellence in Journalism Award**

### **Emily Unglesbee**



Emily Unglesbee is a staff reporter for DTN/Progressive Farmer, a subscription-based news service and monthly magazine focused on agriculture.

Her entry into journalism and agriculture was far from straightforward. Although she boasts a long line of Iowa farmers in her family, Emily grew up in a household of writers and readers in southern Pennsylvania. However, her father, an English professor, was an unlikely subscriber to Progressive Farmer, and she grew up reading about agriculture alongside Jane Eyre and Charles Dickens. She graduated from the University of Notre Dame in 2009, armed with a bachelor's

degree in Classics and a plan to study early Christianity in graduate school.

In what was supposed to be a temporary reprieve from academia, she spent the next two years working on five different farms and ranches in England, Pennsylvania, Virginia and Nebraska. While working cattle, butchering chickens and spraying pesticides, she gained a profound respect for the complicated and diverse world of food production.

After deciding she enjoyed agriculture far more than Latin and Greek, she earned her master's degree in journalism from the University of Missouri-Columbia, while working part-time as an intern for DTN/Progressive Farmer and a columnist at the Missouri Ruralist. In 2013, she joined the DTN newsroom full-time. There, she primarily covers crop production issues, including agronomy, biotechnology, regulatory issues, insects, diseases and -- of course -- weeds.

Since she joined the agricultural industry just as glyphosate-resistance was reaching crisis levels, weed control stories have been a central focus of Emily's reporting career. She has relished the chance to dive deeply into the science and social issues behind weed management and herbicide performance, with help from organizations like WSSA.

Her work has netted many awards from the American Agricultural Editors' Association (AAEA), the North American Agricultural Journalists (NAAJ) and the Jesse H. Neal Awards. Her proudest achievement to date, however, remains the time when some family members found a number of her stories clipped to a bulletin board in the hog barn of a farm in upstate New York they were touring. She only wishes they had taken a picture.

Emily lives in Maryland with her husband and fellow journalist, Ben, and their two young children who are growing like, well, weeds.

## **Outstanding Achievement, Weed Manager - WSWS**

### **Steve Sauer**



Steve is originally from the corn and soybean country of the great state of Illinois. He grew up on a farm in central Illinois, attended school at Southern Illinois University and earned a degree in agriculture education. After teaching Ag. Education in high school for 4 years, Steve retired from teaching and farmed in Illinois for 5 years. Steve and his wife and 2 boys moved to the San Luis Valley in southern Colorado in 1983 where they bought a farm. After 22 years of growing potatoes, malt barley, wheat and canola on 2000 acres, being on the local school board for 8 years he retired from farming and moved to Northern Colorado. In 2005 he was hired as a roadside weed technician in Boulder County, Colorado.

Two years later Steve was promoted to the position of Weed Management Coordinator for Boulder County Parks and Open Space, overseeing weed management on over 100,000 acres. He has served as president of the Colorado Weed Management Association. Steve and his wife like to spend their free time traveling, golfing, boating and spoiling their grandchildren who are 8, 4, and 2.

## **Outstanding Paper: Invasive Plant Science and Management - WSSA**

### **Interpreting life-history traits of miconia (*Miconia calvescens*) through management over space and time in the East Maui Watershed, Hawaii (USA).**

*Invasive Plant Sci Manag* 11:191-200. doi: 10.1017/inp.2018.26

**James Leary, Brooke Mahnken, Christopher Wada, Kimberly Burnett**



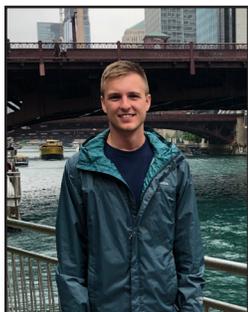
Dr. James Leary is Assistant Professor for the Center of Aquatic and Invasive Plants with the Institute of Food and Agricultural Sciences at University of Florida. He was born and raised in Alma, Michigan, earning a BS degree in Horticulture and Chemistry at Michigan State University in 1996. He relocated to Hawaii in 1997, earning his MS and PhD degrees in Horticulture and Molecular Ecology, respectively, at the University of Hawaii at Manoa. Coming from a cold, dark winter in Michigan, his original fascination with Hawaii was how food could be grown year-round in a tropical island environment. Within his first weeks after arrival, he soon realized...WEEDS DO TO! Prior to his current appointment, he

served the last decade stationed on the beautiful island of Maui as an Associate Specialist for the University of Hawaii in invasive plant species management, where his claim to infamy was the development of Herbicide Ballistic Technology (HBT) designed to surgically eliminate invasive species targets from helicopter platforms. He has over 20 year of experience in tropical weed management and enjoys collaborations with a wide range of disciplines in biology, engineering, economics, and GIS supporting tactical and strategic management decision based on empirical data and scientific inquiry. He starts a new chapter in aquatic plant management continuing his mission to extend knowledge and technology contributing to efficient and effective invasive plant species management in natural and managed landscapes.

## Outstanding Paper: Weed Science - WSSA

**Sex-specific markers for waterhemp (*Amaranthus tuberculatus*) and Palmer amaranth (*Amaranthus palmeri*).** *Weed Sci.* 67:412-418. doi: 10.1017/wsc.2019.27

**Jacob Montgomery & Ahmed Sadeque, Darci Giacomini, Patrick Brown, Patrick Tranel**



Jake Montgomery was born and raised on his family's corn and soy farm near Athens, IL. After high school, Jake studied at Lincoln Land Community College, where he earned his associate degree. Upon graduation, he transferred his credits to the University of Illinois at Urbana-Champaign in order to continue working towards a bachelor's degree in crop science. Throughout his undergraduate career, Jake participated in a range of internships including corn breeding, crop scouting, and small-plot herbicide research. His interest in weed control and molecular biology drove him to continue into a master's program under the supervision of Dr. Patrick Tranel at the University of Illinois. In this program, Jake has used comparative genomics to study dioecious, weedy amaranths in order to better understand the genetic basis of sex-determination in these species. Once he is finished with his master's degree, Jake plans to pursue a Ph.D. in molecular weed science.



Being a member of health professional's family, I developed avid interest in biological sciences in my early childhood. This was a major reason to opt for biological sciences, when the time came for choosing a career and always craved for working in a research environment. I learnt about Bioinformatics when I was about to complete high school. At that time the main aspect of this field which caught my attention was the usage of computers to solve biological problems. This fascinated me and along with subjects like molecular biology, genetics, biotechnology, plant genomics and biochemistry this field was a complete package for me. I have always believed that evolving into a prolific researcher requires dedicated and enthusiastic efforts. Therefore, when the time came to choose a research field for my PhD studies, I wanted to work in a collaborative environment on a multi-disciplinary NGS project and was lucky enough to find a project of my liking under Dr. Patrick Tranel in weed genomics.

Throughout my research career, I have been fascinated by the intricate variations in genome/ expression pattern and transcript variants correlated with manifestation of specific phenotype. My background in computational biology, with numerous NGS data analysis projects under my belt have inspired me in pursuing a scientific career aimed towards understanding the genomics-to-phenotypic associations, population dynamics, genomic variations and expression variability in populations. In, addition I have been fortunate enough to work in tech companies like Bayer and DOW-DUPONT, where I worked under supervision of very capable scientists and in process familiarized myself with HPC, cloud computing and data management systems.

I am extremely humbled on receiving the prestigious WSSA paper award and thank my mentor and colleagues for helping me along the way.

## **Outstanding Paper: Weed Technology - WSSA**

### **Comparing Responses of Sensitive and Resistant Populations of Palmer Amaranth (*Amaranthus palmeri*) and Waterhemp (*Amaranthus tuberculatus* ver. *rudis*) to PPO**

**Inhibitors.** *WT-D-19-00124*

**Kathryn Lillie, Darci Giacomini, Patrick Tranel**



Kathryn Lillie graduated from the University of Illinois at Urbana-Champaign in 2017 with a B.S. degree in Crop Sciences. In 2019, she completed her M.S. degree in Crop Sciences at the University of Illinois with a concentration in Weed Science. During graduate school, her research focus was on protoporphyrinogen oxidase (PPO) inhibitor-resistance in Palmer amaranth and waterhemp. She spent the summer of 2018 working for BASF SE in Limburgerhof, Germany, in the Herbicides Early Biology department. There, she completed enzyme assays to test the effects of known and experimental PPO inhibitors on all amino acid changes at the R128 site of PPX2. Following graduate school, she accepted a position at

Illinois Valley Community College in Oglesby, Illinois, as an agriculture instructor and program co-coordinator. There, she teaches classes in field crop sciences, pest management, crop production and management, soil fertility, business, finance, computers, and marketing. Ms. Lillie has published an article in both the Weed Science and Weed Technology journals and has presented at five professional conferences. Additionally, she has won numerous awards, including receiving both the Ainsworth Family Endowment in Crop Sciences Fellowship and the Lawrence E. Schrader and Elfriede Massier Plant Physiology Fellowship, placing third in the Weed Science Society of America oral presentation contest in 2019, placing first in the North Central Weed Science Society oral presentation contest in 2018, and she was recognized on UIUC's List of Teachers Ranked as Excellent by Their Students as an Outstanding Teacher's Assistant in 2018.

## **Outstanding Reviewer Awards - WSSA**

### **Vipan Kumar, Kansas State University - Weed Science**



Dr. Vipan Kumar is an Assistant Professor of Weed Science (with 100% research appointment) at Kansas State University, Agricultural Research Center in Hays, KS. Vipan grew up on a small family farm in northwestern Punjab (a bread basket of India). He completed his Diploma in Agriculture (two year program) from Institute of Agriculture in Gurdaspur, Punjab (India) in 2004. He graduated from Punjab Agricultural University, India in 2008 with a B.S. in Crop Science. Vipan received his M.S. from Louisiana State University in Agronomy in 2011 and Ph.D. from Montana State University in Plant Science in 2015. He worked as a Postdoctoral Scholar for two years at Montana State University Southern

Agricultural Research Center near Huntley, MT before beginning his position at K-State in 2017. Dr. Kumar has an innovative research program that evaluate and develop cost-effective, integrated weed management strategies for irrigated and dry land cropping systems of Kansas and the High Plains region. Since 2017, he has secured >\$1.2 million (as PI/Co-PI) in extramural grants and contracts. Vipan has published 38 refereed journal articles, 14 extension articles/technical reports, 104 abstracts

in conference proceedings, and documented 4 new cases of herbicide-resistant weeds across U.S. Great Plains. His extension activities at K-State since 2017 included 12 field days and field tours, 8 media talks, and 36 invited presentations at various industry, grower, and commodity group meetings region wide. Vipran has served as major Advisor/co-Advisor of 2 M.S. students; committee member of 4 other graduate students; advised one postdoctoral fellow and hosted one visiting scholar. He has served as an Associate Editor for Agronomy journal since 2017. He is an active member and serves on several committees of the Weed Science Society of America (WSSA), North Central Weed Science Society (NCWSS), and Western Society of Weed Science (WSWS), including the Chair of Herbicide Resistant Plants Committee (WSWS). He is serving as a reviewer for Weed Technology, Weed Science, Pest Management Science, Crop Protection, Agronomy Journal, Nature Scientific Reports, and PLoS ONE. Vipran has been honored with the Elena Sanchez Memorial Outstanding Graduate Student award from the Western Society of Weed Science in 2015.

### **Lauren Schwartz-Lazaro, Louisiana State University - *Weed Technology***



Lauren Lazaro obtained her B.S. degree in Biology at Sweet Briar College in 2009 and her M.Sc. and Ph.D. in Plant Biology, with an emphasis in Weed Ecology, from Southern Illinois University. She went on to be a Post-Doctoral Research Associate at the University of Arkansas in 2015. In 2017 Lauren joined Louisiana State University (LSU) AgCenter in the School of Plant, Environmental, and Soil Sciences where she is currently an Assistant Professor of Weed Science/Agronomy with responsibilities in teaching and research. Lauren currently teaches three course offerings at LSU AgCenter in field crop production, introductory weed science, and field plot techniques. She currently mentors several undergraduate

students and chairs 3 M.Sc. students and 1 Ph.D. student.

Lauren's research focus is in integrated weed management, harvest weed seed control, and weed biology and ecology pertaining to herbicide resistant weed species. Lauren has authored 22 journal articles and one book chapter. She was awarded the Outstanding Paper in Weed Science during 2015 and currently is chair of the WSSA Website Development Committee as well as being a committee member of the WSSA Publications Board Committee. At LSU AgCenter, Lauren is serving on the School of Plant, Environmental, and Soil Sciences Undergraduate Courses Curriculum Committee and the Scholarship Committee as well as a College of Agriculture mentor. Further, she is a Faculty Senate member, serves on the Inter-institutional Biological and Recombinant DNA Safety Committee, and is an officer for the LSU chapter of Sigma Xi. Outside of academia, Lauren is a pen pal in the Letters to a Pre-Scientist program.

### **Cynthia Huebner, USDA-USFS - *Invasive Plant Science and Management***



Cynthia Huebner received her BS in biology from the University of California, Riverside, her MS in environmental science and MA in plant ecology from Indiana University, Bloomington, and her PhD in botany from Miami University of Ohio, Oxford. She has been a Research Botanist for the Northern Research Station of the USDA Forest Service in Morgantown, WV since 2000. Previously, she worked for the National Research Initiative (now the National Institute of Food and Agriculture or NIFA) of USDA for three years. Her other related jobs include Research Botanist for the Missouri Department of Conservation, visiting Assistant Professor at Oberlin College, Adjunct Professor at Antioch University, and

Management Intern of the Ohio Chapter of the Nature Conservancy. Her current research focuses on the biology and ecology of invasive plant species in forest systems, especially in association with

anthropogenic and natural disturbances. Research topics include:

- prediction of vulnerability to invasion (from seed bank, to establishment, to spread),
- competitive ability of common invaders (such as *Ailanthus altissima* and *Microstegium vimineum*) in comparison with associated native species and under various environmental conditions,
- basic biology and reproductive ecology of common invaders, especially in terms of how these characteristics may explain their invasiveness or pinpoint weaknesses,
- evaluation of detection methods for sampling so that establishing invaders (or rare species) are documented early and effectively, and
- restoration of invaded forest sites.

## **WSSA Fellow Awards**

### **Dr. Daniel B. Reynolds**



Dr. Daniel B. Reynolds is a Professor of Weed Science and holds the Edgar Hartwig Chair in Agronomy with Mississippi State University. He is a native of Jerome, Arkansas, and received a B.S. degree in Agricultural Science from the University of Arkansas at Monticello and his M.S. degree in Agronomy from the University of Arkansas at Fayetteville. He received a Ph.D. in Crop Science from Oklahoma State University and joined the staff of the Louisiana Agricultural Experiment Station at the Northeast Research Station in 1986. Dan conducted weed control research in soybean, corn, cotton, and cereal grains in northeast Louisiana. In 1996, he joined the Department of Plant & Soil Sciences with

Mississippi State University. Currently his responsibilities include teaching, weed control research in soybean along with agronomic and conservation tillage systems. His research program is now focusing on the use of spatial technologies to assess the needs and application of herbicides, plant growth regulators, and harvest-aids site-specifically. The introduction of transgenic crops has led to increased incidents of off-target deposition of herbicides such as glyphosate and auxin herbicides. Dan has worked with computer and electrical engineers to develop methods for detection and assessment of these events by utilizing multi-spectral and hyper-spectral data. Dan has served or currently serves as major advisor of 33 graduate students and has served on the committee of over 51 others. With the assistance of colleagues, Dan has developed effective weed control programs for the crops grown in Louisiana and Mississippi. He has been an invited speaker at many weed control program training seminars for extension, agri-chemical company, and farm personnel.

Dan has been actively involved in weed science societies at the state, regional, and national levels. He has served as the President of the Southern Weed Science Society (SWSS) as well as on various committees of the Weed Science Society of America. In 1999 he received the SWSS Outstanding Young Weed Scientist Award, in 2003 he was the recipient of the SWSS Outstanding Educator Award, and in 2012 he was selected as the SWSS Weed Scientist of the Year. Additionally, Dan was selected by the Mississippi Agricultural Forestry Experiment Station as their 2012 Researcher of the Year. In 2013, Dan was recognized as a Fellow of the Southern Weed Science Society when they honored him with their Distinguished Service Award. In 2017, Dan and his colleagues, Jason Bond, Darrin Dodds, and Trent Irby were recognized as the recipients of the Rosalind and Rodney Foil Teamwork Award for their team efforts in developing online auxin training materials for the state of Mississippi. In 2018, Dan was recognized by the Division of Agriculture, Forestry, and Veterinary Medicine as the recipient of their Superior Faculty Award for his efforts in International outreach with USAID.

## Dr. Bryan G. Young



Bryan Young was raised on the family farm in Michigan where hand-weeding of sugar beets and dry edible beans was common. Bryan obtained his B.S. degree in Crop and Soil Science at Michigan State University in 1994 while working throughout with Dr. Don Penner. Dr. Penner's support and encouragement resulted in Bryan pursuing a Ph.D. in Crop Sciences, with an emphasis in Weed Science, from the University of Illinois under the direction of Dr. Steve Hart. In 1998 Bryan joined Southern Illinois University working through the faculty ranks to Professor of Weed Science/Agronomy with responsibilities in teaching, research, outreach, and administration. Bryan taught or co-taught 15 different course offerings at SIU and was also a primary academic advisor and coordinator of the student intern program. In 2013 he joined Purdue University with his teaching responsibility focused solely on introductory weed science and herbicide mode of action, earning several teaching awards throughout his career.

Bryan's research has focused on the development of weed management strategies for primarily corn and soybean, herbicide application technologies, and weed biology and ecology pertaining to herbicide-resistant weed species. Bryan has authored 132 journal articles, including Outstanding Paper Awards in both Weed Science and Weed Technology, and was recently recognized as a Purdue University Faculty Scholar. Bryan may be best known for his work with adjuvants and publishing nine editions of the Compendium of Herbicide Adjuvants.

Even though Bryan has never held a formal extension appointment he annually participates in numerous outreach activities to serve the agricultural community with over 650 outreach presentations for his career. Internationally, Bryan has been actively engaged in the management of herbicide-resistant weed species in South America, including an invited speaker at six conferences and hosting over a dozen groups of crop consultants, chemical retailers, and academics from Brazil and Argentina. In addition, Bryan worked with the United Soybean Board to broaden education on the sustainability of U.S. soybean production and the use of transgenic crops through interactions with Copa-Cogeca (European Union Farmer Association), the United Kingdom National Farmers Union, USDA, Capitol Hill legislative aides, and six different state groups for dietetics, nurse practitioners, and family practice physicians.

Bryan served on the North Central Weed Science Society Board of Directors for 14 years in various roles including the Presidential rotation. In 2002 Bryan was honored with the NCWSS Young Weed Scientist Award and in 2013 the NCWSS Fellow Award. Bryan has also served WSSA on the Board of Directors (Member-at-Large), two terms as chair of the Formulation, Adjuvant, and Application Technology committee, several other committee activities, and Associate Editor for Weed Technology. Bryan is also a member of the International Weed Science Society, the Honor Society of GAMMA SIGMA DELTA, and the Agricultural honors fraternity ALPHA ZETA.

Bryan and his wife Julie, who has her M.S. in Weed Science, enjoy rural life on a small farm with three children whom all have an appreciation for agriculture and a basic hatred for weeds.

## WSWS Fellow Awards

### Monte D. Anderson



Monte Anderson originates from a South Dakota wheat, corn, and livestock farm. He obtained B.S. and M.S. degrees in Agronomy from South Dakota State University, and got his first exposure to the weed science societies as a grad student at three NCWSS conferences. During his 36 years in industry he has worked for and survived five company names. Starting out with one of the smallest companies in 1984 and now with the largest company, Monte has worked on more crops and chemistry than he could ever imagine. He has presented on a wide variety of herbicides at the NCWSS, WSWS, and WSSA meetings. Starting out with American Hoechst as a R & D/Tech Service associate, he covered the Red

River Valley of ND and MN. As Hoechst- Roussel Agri-Vet he covered 5 1/2 states based out of Spokane, WA as a Field Technical Group representative, that's when he first joined the WSWS in 1985. When Hoechst Roussel Agri-Vet teamed up with NorAM to become AgrEvo, he was asked to work with transgenic corn and soybeans, essentially the Liberty Link technology, based out of eastern Nebraska. The advent of combining AgrEvo and Rhone Poulenc as Aventis brought him back to the Pacific Northwest and back to the Western Society of Weed Science. Then, when Aventis was sold to Bayer, Bayer CropScience has let him stay right where he was to work on almost anything. Then as Bayer acquired Monsanto, now he truly does cover anything and everything it seems! Last fall, Bayer CropScience assigned him a position as a Field Agronomist in the Field Solutions group that develops only the new stuff, but finds his experience with the old stuff is going to keep him fully engaged for some time until its no longer fun. He's currently a Principal Scientist residing near Spokane, WA covering WA, OR, and ID.

### Traci Rauch

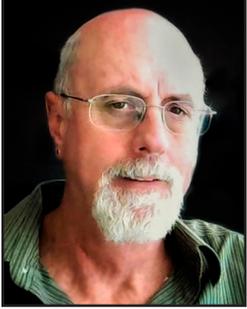


Traci Rauch completed her bachelor's degree in Biology at Pacific Lutheran University in 1992 and her Master of Science degree at the University of Idaho in 1998. Traci started her career in weed science as a Scientific Aide in 1995 and is currently a Research Associate at the University of Idaho. She conducts field and greenhouse experiments in the agronomic weed science program. Traci has been an active member in the Western Society of Weed Science since 1993. She has authored/coauthored 245 WSWS Research Progress Reports, 30 WSWS Proceedings Abstracts, 8 other professional abstracts, 3 Weed Technology articles, and has been WSWS Proceedings co-editor for 6 years, and WSWS Research

Progress Report editor or co-editor for 9 years. She has presented at 152 other meetings and field tours. Growers and industry personnel seek her out for consultation on weed control in wheat, legumes, seed crops and other commodities. She has helped train graduate students at the University of Idaho since the mid-1990's.

## WSWS Honorary Member Award

### William J. Price



I was raised in New Mexico, Colorado and Florida. In 1981 I graduated from Colorado State University with a degree in Entomology. During my undergraduate work, I was introduced to field research and weed science through Dr. Ed Sullivan and Keith Haggenson at Great Western Sugar Beet Co. in Longmont, Colorado. Following graduation, I worked at the New Mexico State University Research and Extension center in Farmington, New Mexico under Dr. Rick Arnold. During this time, I gained experience in weed science, entomology, horticulture, soil science, and agronomy in a wide array of crops and production methods in association with the Navajo Agricultural Products Industries (NAPI). In 1987, I returned to school at New Mexico State University for my MS degree in statistics under Dr. Leigh Murray and Dr. Scott Urquhart. I also minored in soil science. In 1990, I moved to Moscow, Idaho to serve as a consulting statistician in the College of Agricultural and Life Sciences at the University of Idaho. In 1999, I received my PhD in Plant Science (Thesis on Quantitative Weed-Plant Competition models) under Drs Don Thill and Bahman Shafii. I have now worked on the other side of the research desk helping faculty, staff, and graduate students with statistical matters for nearly 30 years and in 2017, I became Director of Statistical Programs, College of Agricultural and Life Sciences, University of Idaho.

# Previous WSSA Award Winners

## Outstanding Paper in WEED SCIENCE

1964	R.N. Andersen A.J. Linck R. Behrens M.L. Weaver R.E. Nyland		H.D. Coble		S. Clay
		1991	W.H. Ahrens	2010	S.S. Kaundun
		1992	J.M. Shribbs D.W. Lybecker E.E. Schweizer		I. Zelaya R. Dale A. Lycett P. Carter K. Sharples E. McIndoes
1966	J.H. Ohman T. Kommedahl L.L. Jansen	1993	J.S. Holt D.R. Orcutt		J. Storkey S.R. Moss J.W. Cussans K. Thinglum C. Riggins A. Davis K. Bradley K. Al-Khatib P. Tranel
1967	L.L. McCormick A.E. Hiltbold	1994	L.J. Wiles G.G. Wilkerson H.J. Gold H.D. Coble	2011	
1968	R. Prasad C.L. Foy A.S. Crafts	1995	D.A. Derksen A.G. Thomas G.P. Lafond H.A. Loeppky C.J. Swanton	2012	
1969	C.R. Swanson H.R. Swanson		C.G. McWhorter R.N. Paul	2013	J. Moriles S. Hansen D.P. Horvath G. Reicks D.E. Clay S.A. Clay
1970	J.B. Weber S.B. Weed T.M. Ward	1996	R.N. Paul J.C. Ouzts		S.E. Wortman A.S. Davis B.J. Schutte J.L. Lindquist J. Cardina J. Felix C.L. Sprague J.A. Dille A.H.M. Ramirez G. Reicks S.A. Clay
1971	L. Thompson, Jr. F.W. Slife H.S. Butler	1997	M. Jasieniuk A.L. Brule-Babel I.N. Morrison	2014	
1972	R.D. Gruenhagen D.E. Moreland	1998	F. Forcella R.P. King S.M. Swinton D.D. Buhler J.L. Gunsolus		
1973	J.L. Hilton M.N. Christiansen		C.V. Eberlein M.J. Guttieri J. Steffen-Cambell	2015	J. F. Egan K. M. Barlow D. A. Mortensen
1974	J.T. Daniel G.E. Templeton R.J. Smith, Jr. W.T. Fox	1999	M.J. Foes L. Liu P.J. Tranel L.M. Wax E.W. Stoller	2016	L.M. Schwartz D.J. Gibson K.L. Gage J.L. Matthews D.L. Jordan M.D.K. Owen D.R. Shaw S.C. Weller R.G. Wilson B.G. Young
1975	A.D. Worsham	2000	M.J. Foes L. Liu P.J. Tranel L.M. Wax E.W. Stoller		M. Dogramaci G. Gramig J.V. Anderson W. Chao M.S. Foley G. Cundiff D. Reynolds T. Mueller
1976	R. Parker M.C. Williams		J. S. Holt A.B. Boose	2017	
1977	J.M. Anderson C.G. McWhorter	2001	L. Hall K. Topinka J. Huffman L. Davis A. Good		
1978	C.G. McWhorter	2002	B.V. Ottis A.M. Prazak-Harvey C.A. Bormans C. Sneller J.M. Chandler W.D. Park	2018	
1979	P.G. Bartels C.W. Watson	2003	M.A. Stanislaus C. Cheng		
1980	P.E. Brewer C.J. Arntzen F.W. Slife	2004	A.N. Steinau D.Z. Skinner M. Steinau	2019	A. Kniss
1981	D.T. Patterson E.P. Flint	2005	I. Rajcan K.J. Chandler C.J. Swanton	2020	J. Montgomery A. Sadeque D.A. Giacomini P.J. Brown P.J. Tranel
1982	P.H. Westra D.L. Wyse E.F. Cook	2006	J.T. Dauer D.A. Mortensen R. Humston		
1983	R.A. Evans D.A. Easi D.N. Book J.A. Young	2007	K.W. Davies R.L. Sheley D.P. Horvath D. Llewellyn		
1984	E.P. Flint D.T. Patterson	2008			
1985	E.E. Schweizer R.L. Zimdahl	2009			
1986	M.R. Pareja D.W. Staniforth				
1987	R.N. Paul S.O. Duke W.H. Kenyon				
1988	S.L. Sherrick H.A. Holt F.D. Hess				
1989	P.J. McCall				
1990	D.A. Mortensen				

## Outstanding Paper in WEED TECHNOLOGY

1988	S.O. Duke J. Lydon		A. Hamill C. Leger		R.R. Bellinder R.R. Hahn
1989	R.J. Smith	2002	S.G. Hallett	2014	R. Werle
1990	R.J. Kremer N.R. Spencer		A. K. Watson		M.L. Bernards
1991	B.D. Maxwell M.L. Roush S.R. Radosevich	2003	L.W. Lass D.C. Thill B. Shafii		L.J. Giesler J.L. Lindquist
1992	R.D. Cousens	2004	T.S. Prather H.J. Beckie	2015	M.J. Walsh S.B. Powles
1993	M. Sattain G. Zanin A. Berti	2005	K.J. Kirkland W.W. Donald W.G. Johnson	2016	L.L. Beck A.J. Patton Q.D. Law D.V. Weisenberger
1994	G. Kapusta R. Krausz	2006	A.S. Sciumbato J.M. Chandler S.A. Senseman		J.T. Brosnan J.J. Vargas Almodovar G.K. Breeden
1995	T.M. Webster M.M. Loux E.E. Regnier S.K. Harrison		R.W. Bovey K.L. Smith	2017	D.A. Kopsell M. Wiggins R.M. Hayes
1996	I. A. Bello M.D.K. Owen H.M. Hatterman-Valenti	2007	S.B. Powles C. Preston		L. Steckel
1997	F. Forcella K.R. Banken	2008	M.P. Blair S.M. Zedaker J.R. Seiler	2018	M. Loux A. Dobbels K. Bradley W. Johnson
1998	T.M. Wolf S.H. Liu B.C. Caldwell A.L. Hsiao	2009	P.L. Hipkins P.L. Burch A. Légère F.C. Stevenson		B. Young D. Spanhorst J. Norsworthy M. Palhano
1999	K.D. Morrison E.G. Reekie K.I.N. Jensen	2010	N. Ziadi H.J. Beckie X. Reboud	2019	L. Steckel M. Walsh J. Broster S. Powles
2000	R.E. Blackshaw G. Semach X. Li T. O'Donovan K.N. Harker	2011	R.A. Mischler W.S. Curran S.W. Duiker J.A. Hyde	2020	K. Lillie D. Giacomini P. Tranel
2001	J. Zhang S. Weaver	2012	S. Fogliatto F. Vidotto A. Ferrero		
		2013	G.J. Evans		

## Outstanding Paper in INVASIVE PLANT SCIENCE AND MANAGEMENT

2009	E.A. Lenhoff L.J. Res B.D. Maxwell M.L. Taper	2014	J. Gaskin M. Schwarländer H.L. Hinz	2017	M. Jenkins K. Gibson A. Boswell S.E. Sing
2010	S. Ward C. Fleischmann M. Turner S. Sing		L. Williams III E. Garber B.G. Rector D.Y. Zhang	2018	S. Ward D. Tekiela J. Barney
2011	K.M. Goodwin R.E. Engel D.K. Weaver	2015	J. Leary B.V. Mahnken L.J. Cox A. Radford	2019	M. Rinella J. Davey G. Kyser F. Mashiri
2012	C. Jarnevich T. Holcombe D. Barnett T. Stohlgren J. Kartesz		J. Yanagida T. Penniman D.C. Duffy J. Gooding	2020	S. Bellows J. James V. Peterson J. Leary B. Mahnken C. Wada K. Burnett
2013	A.M. Herrera-Reddy R.I. Carruthers N.J. Mills	2016	J. Shields B. Dunning M. Saunders P. Zollner		

## Outstanding Teacher Award

1971	A.P. Appleby	1984	A.D. Worsham	1997	D. Penner	2010	None awarded
1972	P.W. Santelmann	1985	M.D. McGlamery	1998	R.E. Talbert	2011	D.S. Glenn
1973	F.W. Slife	1986	L.R. Oliver	1999	D.R. Shaw	2012	G. MacDonald
1974	N.D. Nalewaja	1987	R.D. Ilnicki	2000	J.L. Griffin	2013	W.K. Vencill
1975	W.F. Meggitt	1988	R.L. Zimdahl	2001	K.K. Hatzios	2014	P. Dotray
1976	E.G. Rodgers	1989	C.G. Messersmith	2002	D.A. Mortensen	2015	K. Howatt
1977	G.F. Warren	1990	H.D. Coble	2003	G.R. Stephenson	2016	A. Shrestha
1978	D.E. Davis	1991	D.L. Wyse	2004	B. Maxwell	2017	None awarded
1979	D.E. Bayer	1992	M.A. Ross	2005	K. Harrison	2018	A. Dille
1980	R.E. Frans	1993	P.B. Cavers	2006	J. Wilcut	2019	K. Renner
1981	M.G. Merkle	1994	W.W. Witt	2007	M. Chandler	2020	B. Rubin
1982	L.S. Jordan	1995	W.H. Vanden Born	2008	A. DiTommaso		
1983	T.J. Monaco	1996	J.B. Weber	2009	None awarded		

## Outstanding Extension Award

1972	E.L. Knake	1985	R.A. Fawcett	1998	P. Westra	2011	E.P. Prostko
1973	E.P. Sylvester	1986	C.W. Swann	1999	S.A. Dewey	2012	A.S. Culpepper
1974	H.A. Friesen	1987	L.K. Binning	2000	T.R. Murphy	2013	W.S. Curran
1975	L.E. Anderson	1988	W.M. Lewis	2001	R.K. Zollinger	2014	R.R. Hahn
1976	H.P. Alley	1989	A.G. Dexter	2002	J.W. Boyd	2015	L. Steckel
1977	M.D. McGlamery	1990	C.L. Elmore	2003	R.G. Hartzler	2016	S. Askew
1978	L.W. Mitich	1991	D.N. Weaver	2004	J.N. Rhodes Jr.	2017	M.J. VanGessel
1979	G.R. Miller	1992	M.D.K. Owen	2005	D. Peterson	2018	C. Sprague
1980	J.V. Parochetti	1993	L.C. Burrill	2006	R. Wilson	2019	S. Enlow
1981	J. Miller	1994	E.C. Murdock	2007	T.F. Peeper	2020	J. Byrd
1982	L. Thompson, Jr.	1995	W.M. Stall	2008	J.M. DiTomaso		
1983	R.E. Doersch	1996	A.R. Martin	2009	C. Boerboom		
1984	F.L. Baldwin	1997	A.C. York	2010	W.G. Johnson		

## Outstanding Research Award

1973	D.E. Moreland	1985	C.L. Foy	1997	D.C. Thill	2009	R. Charudattan
1974	D.E. Davis	1986	F.W. Slife	1998	J.C. Hall	2010	J.S. Holt
1975	P.C. Kearney	1987	D. Penner	1999	R.E. Hoagland	2011	D.A. Mortensen
1976	J.L. Hilton	1988	R.H. Shimabukuro	2000	F. Forcella	2012	P.C. Bhowmik
1977	C.G. McWhorter	1989	L.M. Wax	2001	M. Barrett	2013	D.L. Shaner
1978	E.W. Hauser	1990	S.O. Duke	2002	C.J. Swanton	2014	K.N. Harker
1979	O.C. Burnside	1991	S.R. Radosevich	2003	D. Shaw	2015	F. Dayan
1980	A.F. Wiese	1992	E.E. Schweizer	2004	J.T. O'Donovan	2016	C. Mallory-Smith
1981	J.B. Weber	1993	J.D. Nalewaja	2005	K. Vaughn	2017	J. DiTomaso
1982	R.J. Smith, Jr.	1994	K.K. Hatzios	2006	R.E. Blackshaw	2018	J. Norsworthy
1983	A.P. Appleby	1995	J.A. Young	2007	J.L. Griffin	2019	B. Maxwell
1984	F.M. Ashton	1996	E.W. Stoller	2008	K.N. Reddy	2020	P. Tranel

## Outstanding Industry Award

1989	R.A. Gray	1997	M.N. Baig	2005	S. Rick	2013	S.R. Gylling
1990	G.E. Barrier	1998	J.L. Barrentine	2006	J.J. Jachetta	2014	C. Somody
1991	T.D. Taylor	1999	J.R. Bone	2007	D. Maurice	2015	D. Drost
1992	J.D. Riggleman	2000	No award	2008	V.F. Peterson	2016	R. Gast
1993	D.L. Shaner	2001	J.M. Green	2009	N. Jackson	2017	A. Cotie
1994	W.D. Carpenter	2002	E.J. Retzinger, Jr.	2010	J.E. McFarland	2018	M. Peterson
1995	T.J. Holt	2003	R. Ratliff	2011	R. Forney	2019	R. Jain
1996	E.A. Woolson	2004	P. Banks	2012	No award	2020	T. Wright

## Outstanding Graduate Student Award

1975	F.D. Hess		H.J. Streck	1995	T.E. Klingaman	2008	J. Barney
1976	D.H. Teem	1985	D.R. Shaw	1996	J.L. Lindquist	2009	T. Gaines
1977	B.G. Todd	1986	J. McFarland	1997	D.E. Riechers	2010	V. Davis
1978	D.N. Duncan		R. Liebl	1998	T.R. Wright	2011	M.A. Ryan
1979	P.F. Boldt	1987	C.E. Snipes	1999	J.A. Dieleman	2012	S. Wortman
	J.E. Street	1988	D.C. Bridges	2000	A.S. Culpepper	2013	A. Post
1980	J.K. Soteris		M.L. Roush	2001	J. Norsworthy	2014	E. Haramoto
1981	P. Westra	1989	B.D. Maxwell	2002	S. Askew	2015	S. Berger
	E.S. Hagood, Jr.	1990	J.L. Flint	2003	W.A. Pline	2016	R. Werle
1982	M.W. Bugg	1991	R.H. White	2004	I.C. Burke	2017	M. Jeffries
1983	D. McAuliffe	1992	L.D. Boldt	2005	W. Patzoldt	2018	C. Meyer
	L.S. Quackenbush	1993	S.E. Hart	2006	T.J. Koschnick	2019	T. Butts
1984	D.D. Buhler	1994	G.E. MacDonald	2007	W. Thomas	2020	H. Takano

## Outstanding Early Career Weed Scientist Award

1982	R.G. Harvey	1992	M. Barrett	2001	I. Singh	2011	A. Davis
1983	S.R. Radosevich	1993	M.D. Devine	2002	S.A. Senseman	2012	S. Askew
1984	S.O. Duke	1994	J.W. Wilcut	2003	D.L. Jordan	2013	S. McElroy
1985	F.D. Hess	1995	R.E. Blackshaw	2004	P. Dotray	2014	B.D. Hanson
1986	K.K. Hatzios	1996	D.R. Shaw	2005	E. Webster	2015	I. Burke
1987	D.L. Wyse	1997	D. Buhler	2006	F.E. Dayan	2016	J. Barney
1988	P.A. Banks	1998	D.C. Bridges	2007	P. Tranel	2017	A. Jhala
1989	A.K. Watson	1999	A.R. Bonanno	2008	N.R. Burgos	2018	P. Jha
1990	D.C. Thill		L.C. McCarty	2009	C.L. Sprague	2019	T. Gaines
1991	K.C. Vaughn	2000	T.C. Mueller	2010	J. Norsworthy	2020	M. Bagavathiannan

## Outstanding Reviewer Award

2006	C.L. Main		W. Everman		D. Shaner		N. Korras
	J. Ferrell	2011	J. Norsworthy			2019	T. Tseng
2007	A. Dexter		S.O. Duke	2015	M. Bagavathiannan		C. Dalley
	D. Shaw		S.S. Seefeldt		R.D. Sammons	2020	V. Kumar
2008	V.K. Nandula	2012	R.E. Blackshaw	2016	T. Mueller		L. Schwartz-Lazaro
	W.K. Vencill		D. Shaner		K. Renner		C. Huebner
2009	J.F. Gaskin	2013	R. Leon	2017	A. Chandi		
	J. Felix		A. Shrestha		A. Ayeni		
2010	J. Yenish	2014	P. Jha	2018	A. Jhala		

## WSSA Public Service Award

2015	D. Shaw	2017	M. Barrett	2019	D. Shilling
2016	J. Schroeder	2018	P. Stahlman	2020	S. Koehler

## WSSA Excellence in Journalism Award

2019	P. Smith
2020	E. Unglesbee

## WSSA Fellows\*

1970	W.C. Shaw		G.C. Klingman		R.D. Ilnicki	1979	H.P. Alley
	F.W. Slife	1974	D.L. Klingman		D.E. Moreland		R.E. Frans
1971	W.A. Harvey		R.D. Sweet	1977	E.L. Knake		K.C. Hamilton
	L.G. Holm		P.W. Santelmann		C.G. McWhorter		T.J. Sheets
	D.D. Hemphill		L.L. Danielson		H.S. Friesen		A.F. Wiese
1972	B.E. Day	1975	D.E. Davis		L. Southwick	1980	J.D. Bandeen
	W.H. Minshall		J.R. Hay	1978	O.H. Fletchall		S.N. Fertig
1973	E.K. Alban		E.G. Rodgers		J.L. Hilton		C.L. Foy
	W.R. Furtick		R.P. Upchurch		H.M. LeBaron		L.S. Jordan
	R. Behrens	1976	A.P. Appleby		D.W. Staniforth		R.A. Peters

## WSSA Fellows cont.\*

1981	J.F. Ahrens L.H. Hannah W.F. Meggitt R.R. Romanowski C.R. Swanson		A.D. Worsham S.W. Bingham R.W. Bovey T.J. Monaco E.W. Stoller		R. Prasad R.L. Rogers M. Singh W. W. Witt J.L. Barrentine		M.D.K. Owen C.W. Swanton M.E. Foley J.J. Kells R.G. Lym
1982	J. Antognini G.H. Bayer J.H. Dawson C.L. Switzer R.B. Taylorson	1990	R.E. Talbert R.M. Devlin T.L. Lavy M. Newton C.J. Scifres	1998	M.D. Devine A.G. Dexter C.V. Eberlein S.D. Miller P.S. Zorner	2006	A.C. York K.N. Harker R.J. Kremer B.A. Majek K. Vaughn
1983	R.N. Anderson W.D. Carpenter J.E. Gallagher D.L. Linscott L.W. Mitich		J.A. Young R.J. Aldrich C.C. Dowler S.O. Duke C.G. Messersmith	1999	I. Morrison D.S. Murray R. Norris H.D. Skipper D.C. Thill	2008	M.A. Locke R. Wilson C. Mallory-Smith K. Renner M. Barrett
1984	G.A. Buchanan W.A. Gentner M.M. Schreiber R.L. Zimdahl		A.G. Ogg, Jr. J.V. Parochetti R.E. Doersch C.L. Elmore R.E. Eplee	2000	D. Wauchope L.K. Binning N.D. Camper R. Charudattan J.S. Holt	2010	A.R. Bonanno J. Schroeder J. Dusky K. Reddy J.M. DiTomaso
1985	S.R. McLane J.F. Miller W.J. Saidak E.E. Schweizer R.J. Smith, Jr. J.B. Weber	1993	L.R. Oliver D. Penner W.V. Welker J.R. Abernathy J.R. Baker	2001	R.R. Hahn A. Legere A. Martin R.D. Williams G. Wills	2012	D.A. Mortensen K. Al-Khatib J. Derr J. Jachetta P. Stahlman
1986	L.C. Burrill R.D. Comes R.A. Evans R.H. Schieferstein		J.F. Ellis R.E. Hoagland G. Kapusta W.A. Skroch E.F. Eastin	2002	R.E. Blackshaw J.M. Chandler J. Doll J.C. Hall D. Shaw	2013	F. Banks F. Forcella J.M. Green J.V. Anderson T.C. Mueller
1987	F.M. Ashton J.W. Herron G.R. Miller M.G. Merkle J.D. Nalewaja W.H. Vanden Born	1994	A.S. Hamill K.K. Hatzios H.D. Tripple H.J. von Amsberg H.P. Wilson		J.M. Chandler J.C. Hall D. Shaw S.C. Weller S.A. Dewey	2014	P.H. Sikkema R.D. Sammons W.C. Johnson III D. Schilling W. Vencill
1988	D.E. Bayer G.H. Friesen M.C. McGlamery J.A. Meade A.R. Putnam J.D. Riggleman	1995	H.D. Tripple H.J. von Amsberg H.P. Wilson F.L. Baldwin W.L. Barrentine P.C. Bhowmik	2003	R.M. Hayes R. Nishimoto A. Watson T. Whitson J.W. Wilcut	2015	N. Burgos R. Zollinger H. Beckie J. Norsworthy A. Davis
1989	O.C. Burnside W.R. Mullison E.C. Spurrier G.R. Stephenson L.M. Wax	1996	P.C. Bhowmik J.C. Graham F.D. Hess A.E. Smith H.D. Coble R.G. Harvey	2004	B.J. Brecke J.L. Griffin A.E. Miller M.K. Upadhyaya D.D. Buhler J. McFarland	2016	D. Peterson D. Reynolds B. Young
		1997		2005			

## Honorary Members\*

1974	Hans Gysin	1987	Yang-han Li	1998	Jens C. Streibig	2009	H. Matsumoto
1975	A. John Speziale	1988	Werner Koch	1999	Jost Harr	2010	None awarded
1976	Keith C. Barrons	1989	Tetsuo Takematsu	2000	Allan Walker	2011	R. Cousens
1978	John D. Fryer	1990	Agustin Mitidieri	2001	Baruch Rubin	2012	C. & J. Baskin
1979	Menashe Horowitz	1991	Okezie Akobundu	2002	Karl Hurlle	2013	None awarded
1980	Virgil H. Freed	1992	Jonathan Gressel	2003	Helmut Walter	2014	P. Kudsk
1981	Les J. Mathews	1993	Hwan Seung Ryang	2004	Aldo Alves	2015	S. Singh
1982	Gideon D. Hill, Jr.	1994	Peter Böger	2005	Aurora Baltazar	2016	J.L. Gonzalez-Andujar
1983	Shooichi Matsunaka	1995	Keith Moody	2006	Robinson A. Pitelli	2017	None awarded
1985	Abed R. Saghir	1996	Su Shao Quan	2007	Bernal E. Valverde	2018	R. De Prado
1986	Beatriz L. Mercado	1997	Stephen B. Powles	2008	R. Labrada Romero	2019	P. Christoffoleti

\*Society members being honored were originally referred to as Honorary Members. Beginning in 1970 the term was changed to WSSA Fellows and the term Honorary Member has since been reserved for honoring contributions to Weed Science regardless of WSSA membership status.

## Undergraduate Research Award

1992	J. Picketts B. Thorpe		R. Labbe	2009	M. Ho K. Roering D. Giacomini T. Davis K. McCarson	D. Farnsworth G. Gundy J. Bramhall N. Steppig R. Han
1993	G. Chammas J. Sweat	2002	B. Dixon P. Buck S. Schoesk H. Shriner			S. Parry W. Kim
1994	B.A. Galloway R. Lunsford J. Murthy W.B. White		M. Naveed V. Davis L. Bewick	2010	M. Nicolai A. Weiler A. Ryan	C. Dau
1995	E. Miller S. White S. Steed T. Bradford	2003	K. Branum K. R. Dawson R. Kennedy E. La Malfa R. Lynch		D. Triebwasser J. Scott A. Asebedo A. Grothaus A. Wing	J.A. Griffith K.A. Taylor K. Lillie M. Strelau M. Joline
1996	J. Baumgartner W. Pline C. Flore A. Solie		M. Stanford B. Webster	2011	J. Miskella K. Caudle K. Kosog J. Bricker A. Saffer	O. Obenland O. Todd P. Hegedus S. Engelke H. Bateman
1997	L. Fandrich T. Frey M. Furlong I. King G. Penny	2004	J. Flagg C. Curran T. Gaines		J. Schindler K. Kappeler D. Reif R. Dougherty L. Kelly	R. Engel A. Friesen A. Haddad R. Padilla K. Posey T. Randell
1998	S.J. Gray L. Milliman G. Horsman A.S. Franssen J.J. Reilly J. Nguyen A. Anchieta	2005	H. Spalholz M. Pinch D.R. Drost V. Lee M. Lockhard K. Cockburn		M. Angell R. Brenner R. Mejorado K. Caudle D. Brachtenbach	D.A. Wolter D. Came G.A. Caputo A. Constine J. Fisher K.E. Jacobs M. Pitney D. Taylor S. Claire R. Watson
1999	B. Birch H. Chaffey J. Choy J. Groeteke N. Klenk M. Kuchuran C. Sykes	2006	A. Haji D. Heggenstalled K. Campbell M.L. Blanchard A. Hecker M.F. Rollins J. Vassios Z. Isaacson	2012	A. Gardner D. Simmons L. Rios D. Rossman J. Baniszewski K.L. Caudle T. Donohoe T. Newell	A. Tucker D. McCormick A. Butler-Jones E. Eul K. Wills M. Stevens S. Kelly D. Decker B. Fehr J. Adam
2000	K.E. Bolton D. Coggon M. J. Donovan D. Krebs C. Schuster W. Thomas B. Trader	2007	C. Thompson L. Rehak S. Tarolli J. Walter C. Fleischmann S. Rousonelos L.M. Kuehl R.L. Roten		R. Warnock C. Prince B. Janney M. Morris H. Tomlinson	
2001	A.E. Guza W. Barker J. Siira T.L. Brenly M. MacDonald D. Solie	2008	T. Brummer G. J. Miles R. M. Thomas A. J. Paik C. Lange V. A. Johnson L. Daconti A. Zwainz	2013	E. Mayes K. Rimol D. Simmons L. Rios D. Rossman J. Baniszewski K.L. Caudle T. Donohoe T. Newell	

## Annual Meeting Graduate Student Grants

2009	B. Pandey J. Moriles B. Martins L. Christ A. Cho		E. Haramoto A. Lindsey A. Knight E. Burns F. Turner		M. Ashworth A. Mckenzie-Gopsill A. Wright S. Rios Z. Beres	M. Bertucci V. Bhaskar L. Murray K. Segobye S. Shrestha
2010	L. Bast J. Hill M. Pearce K. Polacik T. Skurski E. Waring	2012	R.L. Butler S. Li R. Pedroso M. Elmore K. Jungune T. Burke	2015	S. Betha H.W. Kim D. Sarangi S. Rana J.V. Fernandez	C.A. Brunharo F. Browne J. Boe R. Yadav B. Alexander
2011	R. Holmes P. Quackenbush M. Nicolai J. Mann	2013	C. Rouse S. Birthisel K. Belmont D. Palik	2016	A. Howell N. Soni-Castillo S. McGowen E. Reasor A. Bajwa	J. Gizotti de Moraes V. Yurchak C. Sias J. Schramski M. Brooke

# Previous WSWS Award Winners

## Outstanding Weed Scientists

1989	Jean H. Dawson	1998	Donald R. Colbert		Kelly Luff		Andrew Kniss
1990	Arnold P. Appleby		Clyde L. Elmore	2006	Rick Arnold	2013	Mary Halstvedt
1991	Stephen D. Miller	1999	Gus J. Foster	2007	John Fenderson		Jane Mangold
	Harvey D. Tripple		Philip Westra		Rod Lym	2014	Charlie Hicks
1992	Alex G. Ogg, Jr.	2000	Bart Brinkman	2008	Robert G. Wilson	2015	Brian Mealor
	Kenneth W. Dunster		K. George Beck		Leo Charvat	2016	Prashant Jha
1993	Edward E. Schweizer	2001	John E. Orr		Pat Clay	2017	Erik Lehnhoff
	Sheldon E. Blank		Phillip W. Stahlman	2009	Carol Mallory-Smith	2018	Brian Schutte
1994	Larry C. Burrill	2002	Doug Ryerson		Pete Forster		Rick Boydston
1995	Larry W. Mitich		Tom Whitson		Alan Helm	2019	Todd Gaines
	Paul J. Ogg	2003	Frank Young	2010	Drew Lyon		Don Morishita
1996	Donald C. Thill	2004	Ron P. Crockett		Ian Burke		William (Bill) Cobb
	Neal R. Hageman		Joe DiTomaso	2011	Monte D. Anderson	2020	Timothy Harrington
1997	Jeff Tichota		Jim Vandecoevering		Bradley D. Hanson		Stephen M. Schraer
	Harry S. Agamalian	2005	Kassim Al-Khatib	2012	Brett Oemichen		

## Outstanding Achievement Awards

2003	Bill Brewster	Professional Staff	2012	James Sebastian	Professional Staff
2004	No nominations			Jerry Asher	Weed Manager
2005	Guy Kyser	Professional Staff	2013	Joan Campbell	Professional Staff
	Eric Lane	Weed Manager		Tim D'Amato	Weed Manager
2006	Ed Peachey	Professional Staff	2014	Ed Davis	Professional Staff
2007	Jim Freeman	Weed Manager		Rita Beard	Weed Manager
	Carl Libbey	Professional Staff	2015	Brent Beutler	Professional Staff
2008	Lars Baker	Weed Manager	2016	No nominations	
	Lori Howlett	Professional Staff	2017	No nominations	
2009	April Fletcher	Weed Manager	2018	No nominations	
	Gary Willoughby	Professional Staff	2019	Traci Rauch	Professional Staff
2010	Cheryl Fiore	Professional Staff	2020	Steve Sauer	Weed Manager
2011	Robert Higgins	Professional Staff			

## WSWS Fellows

1968	Robert B. Balcom	1981	P. Eugene Heikes		John T. Schlesselman	2009	Kassim Al-Khatib
	Walter S. Ball		J. Wayne Whitworth	1996	Don Colbert		Scott Nissen
	Alden S. Crafts	1982	Bert L. Bohmont		Robert Parker	2010	Tracy Sterling
	F.L. Timmons		Lowell S. Jordan	1997	Steven A. Dewey		Rick Arnold
	D.C. Tingey	1983	Richard D. Comes		Mike Newton	2011	Daniel A. Ball
1969	Lambert C. Erickson		Clyde L. Elmore	1998	Doug K. Ryerson		Roger Gast
	Jesse M. Hodgson	1984	Larry C. Burrill		Tom D. Whitson	2012	Jodie Holt
1970	Lee M. Burge	1985	L.E. "Jack" Warren	1999	Charlotte V. Eberlein		Lars Anderson
	Bruce Thornton	1986	Dwight V. Peabody		John E. Orr	2013	Tim Miller
1971	Virgil H. Freed		Robert L. Zimdahl	2000	Rodney G. Lym		Tom Lanini
	W.A. Harvey	1987	Alex G. Ogg, Jr.		Frank L. Young	2014	Robert Stougaard
1972	H. Fred Arle		Jean H. Dawson	2001	Barbra Mullin		Robert Norris
	Boysie E. Day	1988	Harvey D. Tripple		Jill Schroeder	2015	Pete Forster
1973	Harold P. Alley		E. Stan Heathman	2002	Jeff Tichota		Gilbert Cook
	K.C. Hamilton	1989	John O. Evans		Philip Westra	2016	Jesse Richardson
1974	William R. Furtick		W.B. "Jim" McHenry	2003	Vanelle Peterson		Joe DiTomaso
	Oliver A. Leonard	1990	Harry S. Agamalian		Carol Mallory-Smith	2017	Ralph Whitesides
1975	Richard A. Fosse		Bart A. Brinkman	2004	Don Morishita		Edward Peachy
	Clarence I. Seely	1991	Larry W. Mitich		Phil Banks	2018	Kai Umeda
1976	Arnold P. Appleby		Edward E. Schweizer	2005	Nelroy Jackson		Dr. Phil Munger
1977	J. LaMar Anderson	1992	Donald C. Thill		Roland Shirman	2019	Joe Yenish
	Arthur H. Lange		Harold M. Kempen	2006	Celestine Duncan		Drew Lyon
1978	David E. Bayer	1993	Paul J. Ogg		Joan Campbell	2020	Monte D. Anderson
	Kenneth W. Dunster		Peter K. Fay	2007	Bill Cobb		T. Rauch
1979	Louis A. Jensen	1994	Sheldon E. Blank		Phil Stahlman		
	Gary A. Lee		Gus J. Foster	2008	K. George Beck		
1980	W.L. Anliker	1995	Stephen D. Miller		Rick Boydston		

## WSWS Honorary Members

1976	Dick Beeler	2003	Roy Nishimoto
1978	Dale W. Bohmont	2004	Doug Schmale
1982	R. Phillip Upchurch	2006	Wanda Graves
1983	Virgil H. Freed	2007	Rob Hedberg
1984	Warren C. Shaw	2008	Robert Zemetra
1987	Norman B. Akesson	2009	Tom Brokaw
1988	Logan A. Norris	2010	Harry Cline
1989	Gary A. Lee	2011	A. G. Kawamura
1990	Earl Spurrier	2014	David Armstrong
1992	Bruce Ames	2015	No nominations
1993	Jerry Caulder	2016	No nominations
1994	Will D. Carpenter	2017	No nominations
1995	K. James Fornstrom	2018	No nominations
1997	F. Dan Hess	2019	No nominations
2001	Darrell Hanavan	2020	William J. Price
2002	Senator Larry Craig - Idaho		

## WSWS Presidential Award of Merit

1994	Rodney G. Lym	2007	Tim Miller
1995	John E. Orr	2009	Mike Edwards
1996	Steven A. Dewey	2010	Phil Motooka
1997	Jill Schroeder	2011	Kai Umeda
1999	Celestine Duncan	2012	Tim Miller
2000	Gus Foster	2013	Phil Banks
2001	Jack Schlesselman	2014	Carl Libbey
2002	Tom Whitson	2015	Carol Mallory-Smith
2003	Nelroy Jackson	2016	Roland Schirman
2004	Joan Campbell	2017	Phil Stahlmann
2005	Tony White	2018	Roger Gast
2006	Janet Clark	2019	Sandra McDonald & Andrew Kniss



## **Sustaining Members**

**Alligare, LLC**  
**AMVAC Chemical Corp**  
**BASF Corporation**  
**Bayer Crop Science**  
**Blue River Technologies**  
**Campbell-Scientific**  
**Clariant Corporation**  
**Corteva Agrisciences**  
**Council of Producers and Distributors of Agrotechnology**  
**FMC Corporation**  
**Gowan Company**  
**Greenleaf Technologies**  
**Growmark, Inc.**  
**Gylling Data Management, Inc.**  
**Helena Chemical**  
**ISK**  
**Lehigh Agri & Bio Services, Inc.**  
**Marrone Bio Innovations, Inc.**  
**Minnesota Valley Testing Lab**  
**Nippon Soda Ltd**  
**NuFarm Americas, Inc.**  
**Oxiten USA**  
**R & D Sprayers**  
**SePRO**  
**Syngenta Crop Protection**  
**TeeJet Technologies**  
**UPL NA Inc**  
**Valent USA**  
**Wilbur-Ellis Company**  
**Winfield United**