

NCWSS *News*

North Central Weed Science Society

Volume 18, Number 1, Spring 2001

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The NCWSS is on the web at:
www.ncwss.iastate.edu



North Central
Weed Science Society

From Your 2001 President — Duane Rathmann

I am pleased to serve as president of the North Central Weed Science Society for 2001. The Board of Directors and myself look forward to receiving input from all members and addressing issues in 2001.

I am pleased with the many members who have indicated a willingness to serve the NCWSS; see the 2001 committee assignments in this addition.

The 55th annual meeting in Kansas City was a success despite the snow and ice that greeted members traveling to the meeting. The 2000 meeting featured 147 oral presentations and 81 posters. The trend of more posters offset by less oral presentations has continued. Next year in Milwaukee we will likely have two poster sessions because of space available for the ever increasing number of poster presentations.

The 2000 meeting theme “The Future Role of Weed Science” was highlighted at the general session by Rob Hedberg, Director of Science Policy, on “Regulatory Issues Affecting the Future Role of Weed Science” and by Gordon Roskamp’s talk entitled “Industry on Campus; A Western Illinois-Monsanto Partnership Bringing Cutting Edge Technology and Instruction to Students”

Three symposia brought a diverse topic discussion to the meeting. Thanks to all who helped organize the three symposia, especially Jerry Doll on Invasive Weeds, Greg Johnson on Site Specific Weed Management, and Bryan Young on Communicating Weed Science.

A special thanks also to Rob Hedberg, who not only addressed the general session, but also spoke at the Invasive Weeds symposia, and as the industry breakfast speaker on the FQPA. His participation gave many members an increased exposure to the Director of Science Policy position.

A new feature of the meeting was the trial use of LCD projectors in three sessions by Brent Pringnitz and the computer committee. LCD projectors were also used in the general session and in each of the three symposia. The computer committees’ assessment of the LCD sessions in 2000 was very positive and it was agreed at the Wednesday night board meeting that LCD projectors would be used in all sessions in 2001.

The preparation by local arrangements committee headed by Jim



Your 2001 President Duane Rathmann

Presidential Address from the 2000 NCWSS General Session — James J. Kells

I would like to welcome you to Kansas City and the 55th meeting of the North Central Weed Science Society. I have decided to divide my comments into two groups. First, I would like to give you an update of recent activities of our society; and second, I need to thank several people who have made significant contributions to NCWSS during the past year.

This has been an exciting year for the North Central Weed Science Society. Our society continues to evolve to better serve our members. I'd like to review some of the most notable developments. Our society has a new Editor of the NCWSS Proceedings. Bob Hartzler is initiating several changes, including electronic submission of abstracts, that will lead to more rapid publication of the Proceedings. We also have a new Editor of the NCWSS Research Report. Bryan Young is also initiating several innovative changes, including publication of the Research Report in CD-ROM format.

We have also seen major improvements in the submission process for papers at our annual meeting. Brent Pringnitz has done an outstanding job of developing an electronic submission system, which has made the process much easier and has minimized the risk of errors. Brent is responsible for our web site. We now have an attractive, user friendly, and dynamic web site. This has greatly improved our ability to communi-

cate within and outside our membership. If you haven't checked it out, I encourage you to do so. In addition, Brent is responsible for the trial in three sessions of LCD projectors at this



meeting. When you see Brent, please thank him for his many contributions to our society.

The primary activity of our society is the annual meeting, which is why we are all here in Kansas City. However, our society is more than just an annual meeting. NCWSS contributes to two primary activities. First, we support the Director of Science Policy position currently held by Rob Hedberg. Hopefully, you are now all convinced of the value to weed science in general, and specifically to our society of the Director of Science Policy position.

I believe that for weed science to remain strong and to grow in the future, it is critical that we communicate to decision makers the importance

of weed science to agriculture and to society in general. As weed scientists, if we don't make a case for the importance of our discipline, no one will. I am convinced from my experience during the past year, that the Director of Science Policy has greatly increased our visibility in Washington, D.C.; and this is not only a wise investment, but a necessity.

Second, we support the North Central Collegiate Weed Science Contest. This is a tremendous educational experience for our students; and a valuable recruitment tool for prospective graduate students. On July 20th, Bayer Corporation hosted the 2000 contest, with 52 undergraduate and 39 graduate students participating from 14 universities. Dave Doran, the local contest coordinator, is to be commended for planning an outstanding contest.

I have several people to thank for their involvement with planning this meeting. Duane Rathman, President Elect and Program Chair, has developed an outstanding program with three very important symposia. Jim Bloomberg and his Local Arrangements Committee have worked very hard to plan the physical arrangements for this meeting. Our future meeting sites are in the good hands of Charlie Slack, Chair of the Site Selection Committee. Last, I have really enjoyed working with Bob Schmidt, our Executive Secretary, over the last 9 years that I have been an officer of our society.

I'd like to remind all of you that NCWSS is a volunteer organization and the list of members that have contributed to the society is long. I would like to thank all of you for your dedicated service to NCWSS. I would be remiss if I did not recognize my secretary back at Michigan State University, Linda Salemka, who assisted me greatly with the program for last year's meeting and with the preparation of the Board of Directors Meeting Minutes during my term as Secretary/Treasurer.

In closing, I consider it a great honor to have had the opportunity to serve as President of the North Central Weed Science Society for the past year. I have very much enjoyed my various roles on the Board of Directors over the past several years, and I plan to continue to serve the society in the future.

President continued from page 1

Bloomberg was very evident as they did an excellent job keeping the meeting running smoothly.

Plans are now underway for the 2001 meeting to be held December 10-13 at the Hyatt Regency Hotel in Milwaukee. Jerry Doll is heading the local arrangements for the meeting and our new President Elect Dallas Peterson is already planning the general session. Mark your calendars now.

Also mark your calendar for the NCWSS summer weeds contest to be held at Monsanto Agronomy Center Monmouth, Illinois on July 19, 2001. The contact person for the 2001 event is Marvin Spaur at 309 734-3407, his e-mail address is marvin.b.spaur@monsanto.com.

In closing I look forward to working with all members whose dedicated service to the NCWSS is what keeps it strong even in these times of rapid change. Please visit our web site during the year for current information on our society.

Distinguished Achievement Award - Professional Staff

Gary Powell

Gary Powell is a native of Michigan. He developed a lifelong interest in agriculture and the outdoors from his



family's longtime relationship with farming and his father who worked in the grain industry.

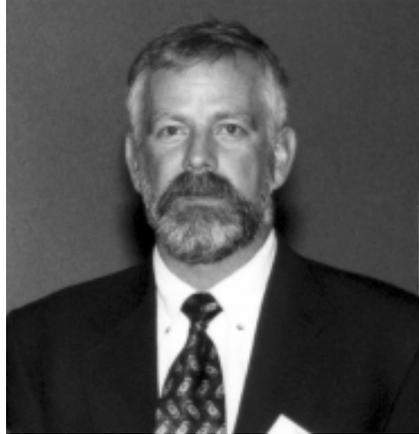
Mr. Powell received his B.S. degree from Michigan State University and worked for Dr. Bill Meggitt in the weed science program as an undergraduate student. He has been a research technician with Dr. Meggitt and Dr. Karen Renner for the past 20 years.

Mr. Powell has worked with 25 graduate students, presented 18 papers at the NCWSS, WSSA, ASA, and ASSBT meetings, and given numerous Extension programs and presentations. He completed his M.S. in 1998 and published his research on navy bean production in reduced tillage systems in the *Journal of Production Agriculture*. Mr. Powell is a dedicated weed scientist and an outstanding agronomist whose commitment and contribution to the weed science program at Michigan State University is exceptional.

David A. Vos

David A. Vos has 15 years experience as a Senior Project Technician for the Weed Evaluation and Demonstration Project in the Plant Science Department at South Dakota State University. Responsibilities include management of field studies at experiment farms and coopera-

tor sites and assisting with other extension activities. David Vos makes field plot on-site decisions and manages plot operations. Planting, spraying, and harvesting equipment have been upgraded.



Contributions combine practical agronomic knowledge with professional expertise. He combines background from the home farm near Luverne, Minnesota with academics. He is current on crop production and weed control issues; completing more than 40 graduate study credits. Professional development includes regular attendance at the North Central Weed Science Society and is now completing a term as State Director. He has represented the project at workshops involving industry and university weed scientists.

Mr. Vos contributes much to Weed Science beyond technical skill. David is involved with plot evaluations and preparing reports to commodity organizations, data reports for producers, applicators and NCWSS Research Reports. He has extensive knowledge of herbicide products, formulations, recommendations, and expectations. Dave has excellent recall of facts and field results. Keen proofreading skills are important in the review process of extension weed control fact sheets.

Advice is provided to other projects. Graduate students, summer interns and extension educators who have been involved in field projects consider it a learning

experience. He has accepted temporary responsibility for teaching aspects of the undergraduate weed science course.

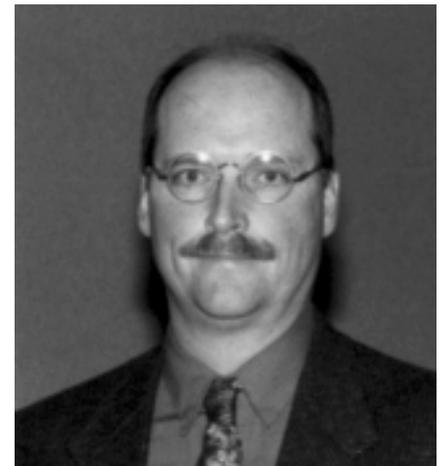
The approach to responsibilities and the ability to work with others is perhaps the most important factor in his effectiveness. He manages work with other technicians and four summer assistants. He is accurate, thorough and has patience to work with new project personnel. He understands the importance of positive public relations for both research and extension programs. He is loyal and interested in building the program, not just doing a job.

Dave and his wife Stacy have two sons, Daniel and Michael.

James E. Lux

Mr. James E. Lux is a native of Cherokee, Iowa. He earned his B.S. in Biology from the University of South Dakota in 1973 and M.S. in Agronomy/Crop Production and Physiology in 1982 from Iowa State University.

Jim's professional career began in 1973 at Iowa State University in the



College of Veterinary Medicine. In 1975 he joined the Agronomy Department where he has been promoted in rank and responsibility regularly throughout his career. Mr. Lux is responsible for the management of the statewide weed science research and demonstration program, and he coordinates herbicide

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efficacy, weed ecology/biology, graduate student, and interdepartmental research projects. Jim has assisted the timely completion of many advanced degrees and is held in the highest esteem by many past Iowa State University graduates.

Mr. Lux has generated critical information that has significantly improved weed management systems for Iowa growers, thus dramatically improving the environmental safety and profitability of crop production. Jim is a highly respected research scientist and has developed a strong relationship with university personnel and industry representatives.

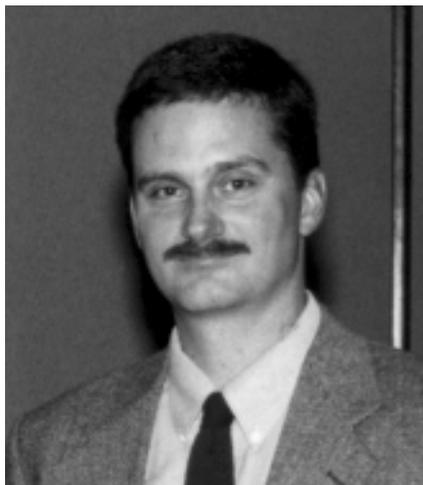
Jim has been a member of the NCWSS since 1982. He has authored and coauthored a significant number of scientific papers and has made numerous presentations at NCWSS and WSSA meetings. He also contributes a significant number of coauthored research reports annually to the NCWSS. Importantly, Jim has participated on a number of professional, university and community committees. He has served as the Iowa representative on the NCWSS Board of Directors from 1992 through 1996 and served as a Weed Science Contest official, and Student Paper Contest judge on many occasions. Mr. Lux has served on the local arrangements committee for the annual meeting and is currently a member of the NCWSS Electronic Communications Committee.

At the university level, Jim is active in representing the Professional and Scientific Staff and has chaired the Representation and Awards committee and numerous subcommittees. Jim has served on several committees in the Agronomy Department including the Strategic Planning Committee and David W. Staniforth Memorial Lecture committee. He actively participates in university and departmental seminars. Mr. Lux was honored by the Iowa Board of Regents and Iowa State University Alumni Association with an award for Staff Excellence in 1994 and Superior Service in 1996, respectively.

Distinguished Achievement Award – Young Scientist

William G. Johnson

Dr. William Johnson was raised on a grain and livestock farm in northwest Illinois. He earned his B.S. degree in Agricultural Science from Western Illinois University and M.S. and Ph.D.



degrees from the University of Arkansas. He began his professional career in 1994 as a research scientist with Cenex/Land O'Lakes at their research farm in northern Iowa. In 1995, he joined the University of Missouri as an Assistant Professor and Extension Weed Specialist. He is responsible for developing economically and environmentally sound weed management practices for the major agronomic crops of Missouri and disseminating that information to several different clientele groups. He also co-teaches a graduate level course in weed science in which he emphasizes herbicide fates in the environment.

Dr. Johnson's research programs have focused on managing common waterhemp; integrating herbicide resistant crops into no-till and conventional-till production systems; weed management with reduced herbicide rates; determining distribution, manage-

ment and interference of ALS-resistant common sunflower in soybean; and investigating relationships between early season weed interference, nitrogen fertilization, and corn yield. He published some of the earliest papers on using reduced herbicide rates in no-till soybean production and in no-till glyphosate-resistant soybean production systems. He has authored or coauthored 23 refereed journal articles and over 150 technical reports and abstracts. He has served as major advisor to 4 M.S. students and currently has 5 M.S. students.

Dr. Johnson's extension programs are developed through needs assessments by soliciting input from a broad range of individuals in Missouri's crop production community. He has developed educational materials and given presentations on many aspects of managing weeds in Missouri's crops. His educational materials have included 15 written manuals and agricultural guides, one video, more than 100 newsletter articles, and development of the University of Missouri Weed Science Website.

Dr. Johnson has served the NCWSS in several capacities. He is currently the editor of the NCWSS Newsletter. He is past chair of the Extension Special Interest Group, has served as a paper and poster contest judge, and served on several committees including Extension Publications, Board of Directors at Large, Distinguished Achievement, and Local Arrangements. Dr. Johnson is also a member of the Weed Science Society of America, Southern Weed Science Society, and the American Society of Agronomy.

Distinguished Achievement Award – Industry

Harlan L. Palm

Harlan Palm is a native of Minnesota, obtained his B.S. from South Dakota State University and received his M.S. and Ph.D. from the University of Missouri. He spent



two summers of internship with Elanco during the EUP stages of Treflan introduction in 1964 & 1965. His post graduate career entailed nearly 29 years with DuPont and he is now employed by the University of Missouri as a Project Manager for a six-university consortium focusing on Precision Agriculture.

Dr. Palm served DuPont in Field Development, Sales, Product Development, as a Regional Development Manager and as a Global Product Development Manager. This entailed six transfers and a third of his career was spent at the world headquarters in Wilmington, DE. He had the opportunity of leading worldwide development of the first sulfonylurea, Glean (chlorsulfuron), for its primary use in cereals. The main challenge of it was gaining an understanding of the soil dissipation patterns of the new chemistry and managing the dynamic impacts that new rotational information had on market forecasting and global rotational directions. An easier and more rewarding task was in helping

to change the mind-set of the commercial world on accepting the introduction of new, low-use-rate chemistry. Formulations and delivery systems were developed to allow measurement of small quantities rather than formulating at a low concentration just so traditional field measurements could be used.

After serving as a Regional Development Manager for five years, he led development of the first sulfonylurea for post-emergent use on corn. As a Global Product Development Manager, he chaired the diverse team while nicosulfuron was given accelerated registration as Accent for corn. Additional country registrations for use of nicosulfuron were also obtained by the global team.

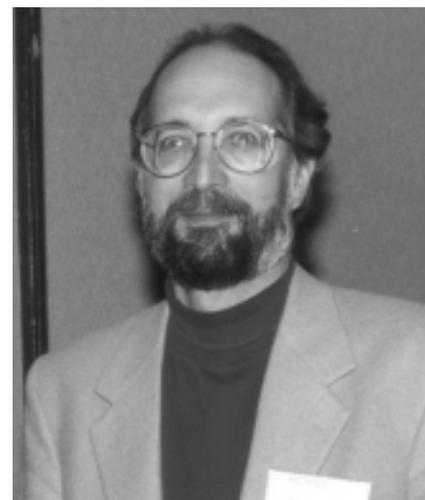
Rimsulfuron (Titus), was another analog that required considerable justification to be developed as a single product. While initially it appeared to be in-kind cannibalistic to the nicosulfuron market, its unique values capitalized on selective residual and complimentary postemergent spectrum. A mixture of the two optimized the spectrum, selectivity and residual activity over either compound used alone. Such efforts provided effective market segmentation tools to optimize product fit with local country needs.

Dr. Palm has been recognized within DuPont via a “Marketing Excellence Hall of Fame” award for the rapid timeline of the registration of Accent and for market development efforts on Titus for the European market. He has presented papers at the NCWSS, WSSA and BCPC on Glean, Velpar, Krenite, Oust, DPX-E9636, DPX-79406 and Basis Gold. He has served as Section Chairman, Judge in Graduate Student Poster Session and on a WSSA Committee.

North Central Weed Science Society Fellows

Douglas D. Buhler

Douglas Buhler received his B.S. degree from the University of Wisconsin-Platteville in 1979 majoring in Soil and Crop Science and his M.S. and Ph. D. degrees from the University of Nebraska in 1982 and 1984, respectively, majoring in Agronomy (Weed Science). Dr. Buhler was Assistant Professor in the Department of Agronomy at the University of Wisconsin-Madison from 1984 to 1989. He joined the USDA-Agricultural Research Service in 1989 and served in the Plant



Science Research Unit in St. Paul, MN, from 1989 to 1993 and at the Natural Soil Tilth Laboratory in Ames, IA, from 1993 to 2000. Dr. Buhler was named Professor and Chair of the Department of Crop and Soil Sciences at Michigan State University in 2000.

Dr. Buhler is widely recognized as an expert in the effects of tillage on weed biology and weed seedbanks and the influence of weed management systems on water quality. Dr. Buhler has been especially effective in collaborating with other scientists on research projects, either as team leader or as a cooperative member of the team. Most of his publications and papers have multiple authors. Dr. Buhler has authored or coauthored 75 journal publications and four invited book chapters. He has authored or coauthored 25 extension publications, 29 non-refereed conference and symposium papers, and recently coauthored the book “Andersen’s Guide to Practical Methods of

North Central Weed Science Society Fellows (continued)

Propagating Weeds and Other Plants” by Douglas Buhler and Melinda Hoffman. He has coauthored abstracts for 132 professional meeting presentations and posters and has presented numerous seminars and other presentations at field days and other educational settings. Dr. Buhler has supervised 11 graduate students and five post doctoral research associates and has served on 72 graduate student committees.

Dr. Buhler has been an active member of the North Central Weed Science Society, the Weed Science Society of America, the Crop Science Society of America, and the Council for Agricultural Science and Technology. He served 17 positions with the NCWSS including the progression from 1996 through 1999 of Vice-President, President-Elect and Chair of the Annual Meeting Program, President and Past-President. While Chair of the Constitution and Operating Procedures Committee, he led a major revision of the Manual of Operating Procedures. He served as a participating member of a CAST sponsored workshop (Conversations for Change) on improving professional scientific societies. Dr. Buhler has been a reviewer for *Weed Science* and *Weed Technology* and has been an at-large member of the WSSA Board of Directors.

Dr. Buhler has received numerous professional awards throughout his career. He was Distinguished Young Scientist for NCWSS, Outstanding Young Weed Scientist for WSSA and Midwest Early Career Scientist of the Year for USDA-ARS. He was coauthor of the Paper of the Year in *Weed Science* in 1998 and was named Fellow by the American Society of Agronomy.

Bill Miller

Bill Miller received his B.S. degree in 1971 and M.S. degree in 1972 from Tennessee State University, Nashville, and received his Ph. D. degree from the University of Tennessee, Knoxville, in 1976, majoring in Plant and Soil Science for each degree. Dr. Miller began his career with Lilly Research Laboratories in Minnesota in product development from 1976 to 1979 and then was manager of the Lilly Research Field Station near Omaha, Nebraska, from 1979 to 1989. Dr. Miller was a

field scientist for Dow Elanco/Dow AgroSciences from 1989 to 2000 when he was biology team leader and led Dow AgroSciences in prioritizing early phase field development needs during the characterization process with experimental compounds. Dr. Miller retired from Dow AgroSciences in 2000.

Dr. Miller was instrumental in development of Elanco's dinitroaniline chemistry for weed control in soybean, sunflower and wheat. Many of the current crop registrations for trifluralin and ethalfluralin can be attributed to his research efforts. Late in Dr. Miller's career he was involved in development of pyridine chemistry for weed control in pastures and for vegetation management in the Great Plains. Dr. Miller championed the need and necessity to test soil-applied herbicides both on good soils and low productivity soils to more fully assess the risk of crop injury from the herbicides. As a result, field tests on various soils are now routine and are conducted in advance of marketing. Dr. Miller also was called on to assist in educational efforts. He conducted numerous workshops to educate growers, retailers and students on proper herbicide application and incorporation and on the influence of soil compaction on crop growth and yield.

Dr. Miller has been active in the North Central Weed Science Society, the Weed Science Society of America, International Weed Science Society, Western Society of Weed Science, Society for Range Management, and the Council for Agricultural Science and Technology. Dr. Miller served the NCWSS as Vice-President, President-Elect and Chair of the Annual Meeting Program, President and Past-President from 1995 through 1998. In 1983, Dr. Miller hosted the North Central Weed Science Contest at the Lilly Research Field Station and was the first agricultural chemical industry representative to host the contest. Dr. Miller has been a member and chair of several NCWSS committees. As Chair of the Industry Committee, he was instrumental in the preparation and adoption of a Code of Ethics for the Society. Dr. Miller participated in a CAST sponsored workshop (Conversations for Change) on improving professional scientific societies. Dr. Miller has been a

member of the USDA-ARS National Planning Program to identify high priority national research issues.

Dr. Miller served as mentor to numerous college students and used company internships as a means of encouraging students to pursue graduate school opportunities. Several students went on to receive M.S. and Ph. D. degrees as a result of his tutelage. He collaborated with the University of Tennessee, Knoxville, to increase minority enrollment in the School of Agriculture and worked with Minorities in Agriculture, Natural Resources and Related Sciences Chapters to increase minority awareness of career opportunities in agriculture. Dr. Miller provided annual tuition fees to support one student per year to attend Marian High School in Omaha. Dow AgroSciences matched this contribution to fund a second student each year.

Philip L. Orwick

Philip Orwick received the B.S. degree from Mount Union College in 1971 and his M.S. degree in 1974 and Ph. D. degree in 1977 from Purdue University. Research was conducted on factors influencing differential herbicide selectivity in *Setaria* and the



development of weed growth models utilizing plant growth and environmental data. Dr. Orwick started his career with Diamond Shamrock Corporation in 1977 as a Research Weed Scientist. He was employed by

American Cyanamid Company from 1979 to 1999. While with American Cyanamid, he served as Research Weed Scientist, Senior Research Weed Scientist, Group Leader in Herbicide Discovery, Program Manager for International Herbicide Development, East Central Regional Research Manager and Senior Regional Research Manager. Presently, Dr. Orwick is Special Projects Coordinator for the National Soybean Research Laboratory in Urbana, Illinois. While with American Cyanamid, Dr. Orwick was closely involved in the decision to commercialize Arsenal, Scepter and Pursuit, the development of Assert and Avenge for countries outside the United States and Latin America, and the field testing of imidazolinone-resistant corn, wheat and sugarbeet.

Dr. Orwick has been author or coauthor on eight refereed publications in *Weed Science*, and for 21 papers presented at meetings of the North Central Weed Science Society, the Weed Science Society of America, the Southern Weed Science Society, the Asian Pacific Weed Science Society, the New Zealand Weed and Pest Control Conference or the British Crop Protection Conference. Also, he has been granted two United States Patents.

Dr. Orwick was Vice-President, President-Elect and Chair of the Annual Meeting Program, President and Past-President of NCWSS from 1997 through 2000. He always strongly encouraged active participation in the NCWSS in American Cyanamid, and many American Cyanamid employees have been active participants and contributors to NCWSS partially due to Dr. Orwick's encouragement. He found money in tight budgets to allow employees to attend the NCWSS meeting. Dr. Orwick has served on NCWSS committees and received the Best Graduate Student Paper Award at the 1974 NCWSS meeting. He received five Awards of Excellence from Cyanamid for work with various herbicides.

Stephen C. Weller

Stephen Weller received the B.S. degree from Central Michigan University in 1971 majoring in Biology, the M.S. degree from The Ohio State University in 1976 majoring in Horticulture and the Ph. D. degree from North Carolina State University in 1980 majoring in Weed Science. Dr. Weller has



been Assistant Professor (1980-1995), Associate Professor (1985-1990), and Professor (1990-present) in the Department of Horticulture at Purdue University with a 60 percent research, 20 percent teaching and 20 percent extension appointment.

Dr. Weller has conducted research on weed management systems in horticultural crops that has ranged from applied to basic science and he is equally comfortable with either. He has coauthored 24 papers in scientific journals since 1990 plus three book chapters and a book "Weed Science, Principles and Practices" by Thomas Monaco and Stephen Weller due for publication in 2001. Dr. Weller has authored or coauthored 60 papers at the NCWSS and his students compete regularly in the graduate student competition. Dr. Weller has become a national resource on the insertion of herbicide resistance genes into mint. Dr. Weller was instrumental in developing a weed science

panel for USDA-ARS CSREES Competitive Grants Program. This program has funded many weed scientists throughout the United States.

Dr. Weller has taught courses at Purdue University on Weed Biology, Seed and Bud Dormancy, Advanced Weed Science, Planning and Presenting Horticulture Research and Horticulture Production Technology. He has been major advisor for ten Ph. D. and eight M.S. students, supervised five post doctoral research fellows and has served on 35 graduate committees. He taught a portion of "Herbicide Action - An Intensive Course in Herbicide Use" since 1980 and has been course coordinator since 1995. This course has been attended by over 1600 weed science professionals and has provided training on herbicide use to company personnel, crop advisors, university weed scientists and graduate students. He coached the Purdue University Weed Science Team at the NCWSS Weed Contest.

Dr. Weller's expertise is widely sought by producers in Indiana and other states. He speaks at numerous Extension meetings and tours each year. He assists in an annual update of the North Central Midwest Vegetable Production Guide that is widely used throughout the Midwest. He has been involved in developing vegetable and fruit research and production in Honduras, Mexico and Guatemala.

Dr. Weller has been active in the NCWSS and has been Chair of the Horticulture Section and the Turf and Aquatics Section; Chair of the Graduate Student Poster Competition, Paper Competition and Resident Education Committee; and has served on the NCWSS Board of Directors and the Awards Committee. In the Weed Science Society of America, Dr. Weller has been a member or chair of several committees, Associate Editor of *Weed Science* and was an invited speaker in the "Genomics in Weed Science Symposium". He also is a reviewer for the Journal of the American Society of Horticultural Science and the Plant Physiology Journal.

Resolutions of the NCWSS

RESOLUTION ON: Local Arrangement Committee for the 55th Annual Meeting of the North Central Weed Science Society.

WHEREAS the North Central Weed Science Society relies upon the effort and diligence of the Local Arrangements Committee for arranging suitable facilities for the annual meeting; and

WHEREAS a well organized Local Arrangements Committee is crucial to the conduct of a successful annual meeting; and

WHEREAS Chairperson Jim Bloomberg and the other members of the Local Arrangements Committee have fulfilled all their responsibilities in an exemplary manner;

THEREFORE BE IT RESOLVED that the North Central Weed Science Society in session at Kansas City, MO, December 11 – 14, 2000 for the 55th Annual Meeting commends Jim Bloomberg and the Local Arrangements Committee for their outstanding efforts in providing the Society with the excellent meeting facilities and arrangements.

RESOLUTION ON: The North Central Collegiate Weed Science Contest.

WHEREAS the North Central Collegiate Weed Science Contest requires adequate facilities in order to conduct the contest in an orderly and educational manner; and

WHEREAS the facilities at provided by the Bayer Corporation in West Lafayette, IN provided an excellent environment; and

WHEREAS the Summer Contest Host and staff of Bayer Corporation in West Lafayette, IN met the needs of the Society and had the dedication for a successful North Central Collegiate Weed Contest;

THEREFORE BE IT RESOLVED that the North Central Weed Science Society in session at Kansas City, MO, December 11 – 14, 2000 for the 55th Annual Meeting commends David Doran and the staff of Bayer corporation for their outstanding efforts and hard work in providing the Society with an excellent facility and a well run and educational Weed Science Contest.

RESOLUTION ON: Graduate Student Paper and Poster Contest Judges for the 55th Annual Meeting of the North Central Weed Science Society.

WHEREAS the North Central Weed Science Society relies on voluntary contribution of time, effort and expertise of its member selected to judge the Graduate Student Paper and Poster Contests; and

WHEREAS the judges selected for the Graduate Student Paper and Poster Contests for the 55th Annual Meeting fulfilled their obligations and responsibilities with dedication and commitment.

THEREFORE BE IT RESOLVED that the North Central Weed Science Society in session at Kansas City, MO, December 11 – 14, 2000 for the 55th Annual Meeting commends the judges of the Graduate Student Paper and Poster Contest for their inputs of time, labor and cooperation in providing the Society with well run, successful contests at this Annual Meeting.

RESOLUTION ON: The Hotel Meeting Facilities for the 55th Annual Meeting of the North Central Weed Science Society.

WHEREAS the North Central Weed Science Society requires adequate facilities and lodging in order to conduct the business and program of the Society at the Annual Meeting; and

WHEREAS the meeting rooms and facilities of the Hyatt Regency Crown Center of Kansas City, MO provided an excellent and spacious meeting environment; and

WHEREAS the staff and management of the Hyatt Regency Crown Center of Kansas City, MO were helpful and cooperative in fulfilling the needs of the Society for a successful Annual Meeting;

THEREFORE BE IT RESOLVED that the North Central Weed Science Society in session at Kansas City, MO, December 11 – 14, 2000 for the 55th Annual Meeting commends the Hyatt Regency Crown Center, its staff and management for their outstanding efforts in providing the Society with excellent meeting facilities and arrangements.

NCWSS Officers — 2001

Officers	Office	Telephone	E-Mail Address
Duane P. Rathmann	President (2001)	507 835-2580	rathmad@basf-corp.com
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Michael J. Horak	Vice President (2001)	314 694-3476	michael.j.horak@monsanto.com
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Bill Johnson	Editor, Newsletter	573 882-0619	johnsonwg@missouri.edu
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Jim Martin	CAST Representative	502 365-7541	jamartin@ca.uky.edu
James J. Kells	Past President (2001)	517 355-2173	kells@msu.com
Robert A. Schmidt	Executive Secretary	217 352-4212	raschwssa@aol.com



2001 officers (left to right) — Kent Harrison, Bryan G. Young, Chris Boerboom, Dallas Peterson, Tom Peters, Duane P. Rathmann, Bill Johnson, Michael J. Horak, Robert G. Hartzler, James J. Kells, and Robert A. Schmidt. Jim Martin, CAST representative, was absent.

NCWSS Elects New Vice President, Michael Horak

Michael received his Ph.D. in Agronomy with an emphasis in Weed Science from the University of Illinois in 1990. He was an assistant and associate professor at Kansas State University from 1991 through 1999. While at Kansas State University he was responsible for conducting research in the area of weed biology

and ecology, teaching undergraduate and graduate courses in weed science, and training graduate students.

He joined Monsanto company in 1999 where he is responsible for conducting ecological assessments on genetically modified crops.

He has been an active member in the NCWSS since 1985. He has served the

society in various roles including: Newsletter Editor, Session moderator, Resident Education Committee chairman, and member of the program committee, computer committee and board of directors. He has presented posters and papers at the annual meetings, and has promoted the NCWSS to students and colleagues.

2001 Committee Appointments

A. Standing Committees

1. NCWSS Board of Directors

Officers	Office	Phone	E Mail Address
Duane P. Rathmann	President (2001)	507 835-2580	rathmad@basf-corp.com
Dallas Peterson	President-Elect (2001)	785 532-5776	dpetero@oznet.ksu.edu
Michael J. Horak	Vice President (2001)	314 694-3476	michael.j.horak@monsanto.com
Chris Boerboom	Secretary-Treasurer	608 262-1392	boerboom@facstaff.wisc.edu
Robert G. Hartzler	Editor, Proceedings	515 294-1923	hartzler@iastate.edu
Bill Johnson	Editor, Newsletter	573 882-0619	johnsonwg@missouri.edu
Bryan G. Young	Editor, Research Report	618 453-2496	bgyoung@siu.edu
Kent Harrison	WSSA Representative	614 292-8468	harrison.9@osu.edu
Jim Martin	CAST Representative	502 365-7541	jamartin@ca.uky.edu
James J. Kells	Past President (2001)	517 355-2173	kells@msu.com
Robert A. Schmidt	Executive Secretary	217 352-4212	raschwssa@aol.com
State Directors	State (Term Expires)	Phone	E-Mail Address
Jim Daniel	Colorado (2003)	970 396 9063	jim.daniel@uap.com
Aaron Hager	Illinois (2002)	217 333-4424	hager@uiuc.edu
	Indiana (2003)		
Damian Franzenburg	Iowa (2002)	515 294-5358	dfranzen@iastate.edu
John Fenderson	Kansas (2001)	316 825-4315	john.m.fenderson@monsanto.com
Michael Barrett	Kentucky (2003)	859 257-7310	mbarrett@ca.uky.edu
John Kaufmann	Michigan (2001)	517 349-7084	john.e.kaufmann@monsanto.com
Fritz Breitenbach	Minnesota (2002)	507 280-2870	breit004@tc.umn.edu
Tom Peters	Missouri (2003)	636 737-7679	tjpete@monsanto.com
	Nebraska (2001)		
Dain Bruns	North Dakota (2002)	701 293-9412	dain.bruns@syngenta.com
Paul Sprankle	Ohio (2001)	614 794-0096	paul.l.sprankle@monsanto.com
Don Murray	Oklahoma (2003)	405 744-6420	dsm@agr.okstate.edu
Peter Sikkema	Ontario (2002)	519 674-1603	psikkema@ridgetowne.woguelph.ca
Darrell Deneke	South Dakota (2003)	605 688-5100	deneke.darrell@ces.sdstate.edu
Richard Proost	Wisconsin (2001)	608 262-7845	rproost@facstaff.wisc.edu
Abdel Mesbah	Wyoming (2002)	307 754-2223	sabah@uwyo.edu

2. Directors at Large

Christy Sprague	Extension	217 333-4424	csprague@uiuc.edu
Shannon Oltmans	Graduate Students	701 231-8167	shannon_oltmans@nds.nodak.edu
David Nicolai	Industry	651 451-4948	dnico@cnxlol.com
Dave Bennett	Reg. and Crop Consultants		barc@lisco.com
Matt Foes	Research and Publications	(815) 397-6828	matthew.j.foes@monsanto.com
Dave Johnson	Resident Education	651 699-0173	johnsod4@basf-corp.com

3. Finance, Steering, and Policy Committee

Chris Boerboom	Chair	608 262-1392	boerboom@facstaff.wisc.edu
John M. Fenderson	Vice Chair	316 825-4315	john.m.fenderson@monsanto.com
Jim Kells	Ex Officio	517 355-2173	kells@msu.com
Phil Stahlman	(2001)	785 625-3425	pstahlma@oznet.ksu.edu
Reid Smeda	(2002)	573 882-2002	smedar@missouri.edu
Robert Schmidt	Ex Officio	217 352-4212	raschwssa@aol.com

4. NCWSS Fellow Committee

Bill Witt	Chair	859 257-1823	wwitt@ca.uky.edu
	Vice Chair		
Alan Dexter	Past Chair	701 231-8131	adexter@ndsuxent.nodak.edu
Steve Miller	(2001)		
John Kaufmann	(2002)		
Robert Kremer	(2002)		
Patrick Geier	(2003)	785 623-3425	pgeier@oznet.ksu.edu
	(2003)		

5. Legislative Information Committee

Michael Horak	Chair	314 694-3476	michael.j.horak@monsanto.com
Dallas Peterson	Past Chair	785 532-5776	dpeterso@oznet.ksu.edu
Dale Shaner	2003		
Jamie Retzinger	2002		retzin@basf-corp.com
Scott Ditmarsen	2003		scditmarsen@dowagro.com
Bernard Zandstra	2001		
Rob Hedberg	DSP, Ex Officio		

6. Local Arrangements: 2001 - Hyatt Regency, Milwaukee, WI

Jerry Doll	Chair	608 263-7437	jddoll@facstaff.wisc.edu
Jim Bloomberg	Ex Officio		

7. Career Placement Committee

Henry McLean	Chair		
Eric Spandl	Vice Chair		
Steve Valenti	Past Chair		
Sara Allen	(2001)		
Eric Spandl	(2002)		
John Hinz	(2003)		

8. Membership Committee

Jamie Retzinger	Chair		
	Vice Chair		
Bryce Nelson	Past Chair		
Ken Carlson	2001		
Patrick Geier	2001		
Bill Ahrens	2002		
Peter Sikkema	2002		
James Stewart	2002		
	2003		

9. Nominating Committee

Charles Slack	Chair		
Dave Johnson	Past Chair	651 699-0173	
	Vice Chair		
Mark Loux	2002		
David Nicolai	2002		
	2003		
	2003		

10. Extension Committee

Christy Sprague	Chair	217 333-4424	csprague@uiuc.edu
Jeff Stachler	Vice Chair		
Ron Krauz	Past Chair	618/566-4761	rkrausz@siu.edu
Bill Johnson	2001	573 882-0619	johnsonwg@missouri.edu
Micheal Owen	2001		
Case Medlin	2002	765 494-0599	medlin@btpy.purdue.edu
Steve Siegelin	2002		
	2003		
	2003		

11. Program Committee

Dallas Peterson	Chair	785 532-5776	dpeterso@oznet.ksu.edu
Jerry Doll	Local Arrangements	608 263-7437	jddoll@facstaff.wisc.edu
Michael Horak	Vice President	314 694-3476	michael.j.horak@monsanto.com
Chris Boerboom	Secretary/Treasurer	608 262-1392	boerboom@facstaff.wisc.edu
Christy Sprague	Extension	217 333-4424	csprague@uiuc.edu
Shannon Oltmans	Graduate Students	701 231-8167	shannon_oltmans@ndsu.nodak.edu
David Nicolai	Industry	651 451-4948	dnico@cnxlol.com
Dave Bennett	Reg. & Crop Consultants		

Matt Foes	Research and Publications		
Dave Johnson	Resident Education	651 699-0173	johnsod4@basf-corp.com
Duane Rathmann	Ex Officio	507 835-2580	rathmad@basf-corp.com

12. Publicity and Public Relations Committee

Mike Horak	Co-Chair		
Jerry Doll	Co-Chair		
Dallas Peterson	Past Chair	785 532-5776	dpeterso@oznet.ksu.edu

13. Resolutions and Necrology Committee

Richard Zollinger	Chair		
	Vice Chair		
Richard Proost	Past Chair		

14. Distinguished Achievement Award Committee

Jim Kells	Chair		
	Vice Chair		
Phil Orwick	Past Chair		
Bill Johnson	(2001)		
Steve Weller	(2001)		
Joe Bruce	(2002)		
Randall Currie	(2002)		
	(2003)		

B. NCWSS Special Interest Groups (Elected at business meetings)

1. Industry

David Nicolai	Chair	651 451-4948	dnico@cnxlol.com
Dave Ruen	Vice Chair		
Dain Bruns	Vice Chair	701 293-9412	dain.bruns@syngenta.com

2. Regulatory and Crop Consultants

Dave Bennett	Chair		
	Vice Chair		
Sue Bellman	Past Chair		

3. Research and Publications

Matt Foes	Chair	(815)397-6828	matthew.j.foes@monsanto.com
Bob Starke	Vice Chair		robert.j.starke@monsanto.com
Julie Young	Past chair		

4. Resident Education

Dave Johnson	Chair	651 699-0173	johnsod4@basf-corp.com
Kassim Al-Khatib	First Vice Chair (papers)		
Don Pullins	2 nd Vice Chair (posters)		
Reid Smeda	Past Chair	573 882-2002	smedar@missouri.edu

5. Graduate Students

Shannon Oltmans	Chair		
Scott Nolte	Vice Chair		
Chad Lee	Past Chair	517 353-8714	leechad@msu.edu

C. Sectional Program Chair (Elected at section business meetings)

1. General Program

Dallas Peterson	Chair	785 532-5776	dpeterso@oznet.ksu.edu
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2. Poster Session

Dave Johnson	Chair	651 699-0173	johnsod4@basf-corp.com
Case Medlin	Vice Chair	765 494-0599	medlin@btny.purdue.edu
Patrick Tranel	Past Chair	217 333-1531	tranel@uiuc.edu

3. Corn and Sorghum

Terry Wright	Chair	952 423-4715	trwright@dowagro.com
Gary Finn	Vice Chair	317 337-4781	gafinn@dowagro.com
Shane Taylor	Past Chair		

4. Cereals and Oilseeds

Dain Bruns	Chair		
Brian Jenks	Vice Chair		bjenks@ndsuxt.nodak.edu
Patrick Geier	Past Chair		pgeier@oznet.ksu.edu

5. Forage and Range

Ken Carlson	Chair		
Dan Beran	Vice Chair	515 255-7821	dnlberan@aol.com
	Past Chair		

6. Industrial, Forestry, Turf, and Aquatics

Rick Schulty	Chair	608 277-9739	
Rod Scrivner	Vice Chair	913 327-8327	
Aarvon Glazer	Past Chair	913 897-7378	

7. Equipment and Application Methods

Jeff Koscelny	Chair		
Robert Wolf	Vice Chair		
John Fenderson	Past Chair		

8. Soybeans and Annual Legumes

Jamie Retzinger	Chair		
Adrian Moses	Vice Chair		
Peter Porpiglia	Past Chair		

9. Herbicide Physiology

Kassim Al-Khatib	Chair		
Pat Trammel	Vice Chair		
Mark Dahmer	Past Chair		

10. Weed Ecology and Biology

Anita Diehlman	Chair		
George Kegode	Vice Chair		
Stve Knezevic	Past Chair	402 584-2808	sknezevic2@unl.edu

11. Soil and Environmental Aspects

Jennifer Simmons	Chair		
	Vice Chair		
Michael Hickman	Past Chair	317 494-4448	hickman@btmy.purdue.edu

12. Sugarbeets, Horticulture, and Ornamentals

	Chair		
	Vice Chair		
	Past Chair		

D. Special Committees (appointed by president)

1. Collegiate Weed Science Contest

Marvin Spaur	Site Chair, Monsanto	309 734-3407	marvin.b.spaur@monsanto.com.
Dave Doran	Past Chair, Bayer		

2. Computer Committee

Brent Prignitz	Chair		
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3. Long Range Planning and Organizational Affairs

4. Herbicide Resistance Committee

Jamie Retzinger	Chair	515 226-0152	
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5. Future Site Selection

Charles Slack			
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Highlights of the 2000 NCWSS General Session and Meeting

The 55th meeting of the North Central Weed Science Society was held in Kansas City, MO at the Hyatt Regency Crown Center on December 11-14, 2000. The theme of the meeting was *The Future Role of Weed Science*. Approximately 500 weed scientists from the North Central Region and other areas of the world attending the meeting.

Dr. Harry Strang, Senior VP of Bayer Corporation welcomed attendees to Kansas City. Rob Hedberg, Director of Science Policy, presented some of the regulatory issues affecting the future role of weed science. Dr. Gordon Roskamp, Western Illinois University, and Dr. Brett Bussler, Monsanto, gave an excellent presentation on a collaborative arrangement between

Western Illinois University and Monsanto to teaching an undergraduate course on new technologies from Industry. President Jim Kells finished off the General Session with the presidential address included in this newsletter on page 2.

Highlights of the meeting included excellent symposia, the graduate student contest and the awards banquet.



Bill Simmons kept the evening light and lively during the banquet.



Rob Hedberg addresses the general session.



Brett Bussler provided his perspective on a cooperative course taught by Monsanto employees at Western Illinois University.



President Jim Kells discusses the state of the society.



Jim Kells passes the gavel to the new NCWSS president Duane Rathman.



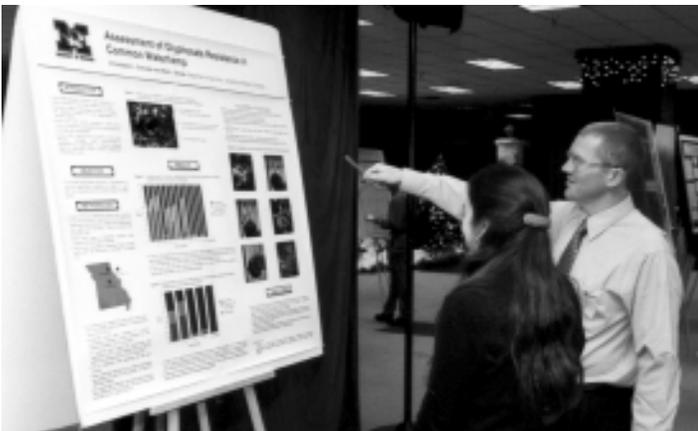
Members visiting during a break.



Left: Dr. Harry Strang of Bayer welcomes members to the general session and gives an historical perspective of Kansas City.



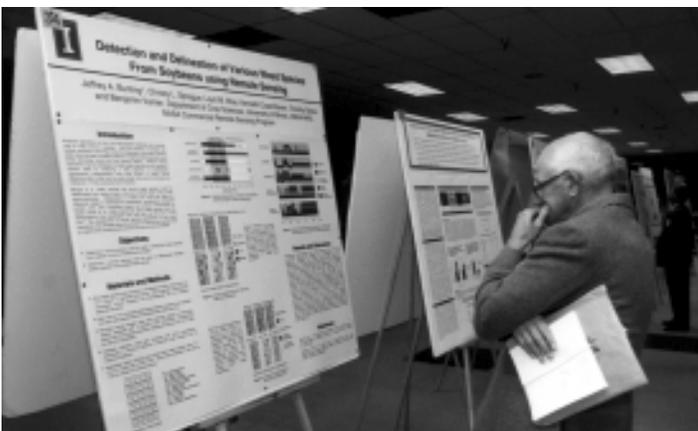
Right: Gordon Roskamp of Western Illinois University discussed his perspective on the joint venture of Monsanto and WIU in teaching a class on Ag Biotechnology.



The poster session continues to grow in popularity.



NCWSS members listen intently at the general session.



Poster session



Enjoying a meal at the banquet.

Poster contest winners

Corn, soybean, sorghum and annual legumes

1st place — *Glufosinate efficacy changes with time of day and velvetleaf leaf angle.* Brent Sellers and Reid Smeda, University of Missouri.

2nd place — *Control of biennial wormwood in soybean.* Bradley Fronning and George Kegode, North Dakota State University.

Weed ecology

1st place — *Amaranthus competition in soybean.* Curtis Bensch, Mike Horak and Dallas Peterson, Kansas State University.

2nd place — *Growth and biomass partitioning of biennial wormwood.* Kris Mahoney and George Kegode, North Dakota State University.



Corn, soybean, sorghum and annual legumes poster contest winners Brent Sellers (left) and Bradley Fronning (right).



Weed ecology poster contest winners Curtis Bensch (left) and Kris Mahoney (right).

Herbicide physiology, equipment and application methods, and soil and environmental aspects.

1st place — *Glyphosate efficacy with varying time of day applications.*

Aaron Waltz, Alex Martin, Fred Roeth and John Lindquist, University of Nebraska

2nd place — *Response of weed density to glyphosate rate and carrier volume.* James Hoefer and Reid Smeda, University of Missouri.

2nd place — *Differential response of selected common soybean weeds to glyphosate, glufosinate, and imazethapyr.* Neal Hoss, Kassim Al-Khatib, and Dallas Peterson, Kansas State University.

Paper contest winners

Weed Ecology and Biology

1st place — *Interspecific hybridization and gene flow of ALS resistance in weedy *Amaranthus* species.* Aaron Franssen, Daniel Skinner, Kassim Al-Khatib, Michael Horak and Peter Kulakow, Kansas State University

2nd place — *Introgressive hybridization of waterhemp and smooth and redroot pigweeds.* Donald Pratt and Mike Owen, Iowa State University.

Soybeans and annual legumes/ Herbicide physiology

1st place — *Weed species shifts in a glyphosate-tolerant soybean crop.*

Kari Hilgenfeld, Alex Martin, Dave Mortensen and Steve Mason, University of Nebraska.

2nd place — *Reduced herbicide rates for nightshade control in pinto bean.*

Chad Ringdahl and Calvin Messermith, North Dakota State University.

Corn and sorghum/Cereals and oilseeds/Sugarbeets, horticulture, and ornamentals/ Equipment

1st place — *Spatial analysis of numerous weed populations in production potato fields.* Gaylon Morgan, Larry Binning, Murray Clayton and William Schmitt, University of Wisconsin.

2nd place — *Herbicide drift management.* Adam Johnson, Robert Klein, Alex Martin and Fred Roeth, University of Nebraska.



Herbicide physiology, equipment and application methods, and soil and environmental aspects poster contest winners Aaron Waltz (left), James Hoefer (center) Neal Hoss (right).



Weed Ecology and Biology paper contest winners Aaron Franssen (left) and Donald Pratt (right).



Soybeans and annual legumes/Herbicide physiology paper winners Kari Hilgenfeld (left) and Chad Ringdahl (right).



Corn and sorghum/Cereals and oilseeds/Sugarbeets, horticulture, and ornamentals/Equipment paper contest winners Adam Johnson (left) and Gaylon Morgan (right).

From the Editor

The deadlines for submitting items for the next two NCWSS Newsletters are May 15 and September 1. Preferred method of news item submission is by e-mail (johnsonwg@missouri.edu). Otherwise, contact:

Bill Johnson
204 Waters Hall
University of Missouri
Columbia, MO 65211
Email johnsonwg@missouri.edu
Phone (573) 882-2001

NCWSS Business Office Address and Phone
NCWSS
1508 West University Avenue
Champaign, IL 61821-3133
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FAX: (217) 352-4241

Call for Symposia and General Session Topics

The annual meeting is one of the most important activities of the NCWSS. A high quality program of volunteer papers and symposia that is of interest to members and other guests is essential to the society. The program committee would appreciate any proposals or ideas for symposia or general session topics for the upcoming meeting in Milwaukee. Symposia proposals should include a general title, objective, organizing individuals, and a list of proposed presentation titles and speakers. Please submit proposals and ideas to: Dallas Peterson, 2014 Throckmorton Hall, KSU Dept. of Agronomy, Manhattan, KS 66506-5504 (tel: 785-532-5776, *e-mail*: dpeterso@oznet.ksu.edu).

People and Places

Dr. Kelly Nelson joined the University of Missouri Agronomy Department on June 1, 2000 as a research assistant professor. He has responsibilities in agronomic research at the University of Missouri Greenley Research Center located near Novelty, MO. Dr. Nelson earned his M.S. and Ph.D. degrees in weed science from Michigan State University. He is currently involved in crop protection, soil fertility, drainage, and innovative integrated crop production systems research.

New Edition of Weeds of the West Available

Weeds of the West has been revised and expanded to include 30 additional plant species. In addition, many pictures have been replaced with more clear and defining photographs. Over 300 new photographs are included in the new revised edition. The new edition has 628 pages with many plants and weeds from the northern plain region. Each species has a picture of the mature plant, a picture showing some defining characteristic, and added to the new addition are seedling pictures of most annual plants.

Weeds of the West books can be ordered through the NDSU Extension Distribution Center by calling 701 231-7882 or e-mail dctr@ndsuxt.nodak.edu. The cost of each book is \$25 + shipping.

New Herbicide "Site of Action" Bulletin

The University of Illinois extension bulletin, "Utilizing Herbicide Site of Action to Combat Weed Resistance to Herbicides" establishes a color-coded herbicide site of action classification system based on 14 sites of action. This three page bulletin is intended to enhance the ability of growers to rotate herbicides based on site of action to slow further development of herbicide-resistant weed biotypes. The front cover explains the importance of using a site of action classification scheme for herbicide resistance management. The inner table separates herbicide sites of action into 14 "primary" colors. Herbicide chemical families sharing a particular site of action are coded in shades of the respective site of action family "primary" color. The bulletin also includes common and trade names of herbicides commonly used in agronomic production systems in the Midwest. The back page of this bulletin includes corn and soybean herbicide premixes, with individual premix components coded with the appropriate color based on their respective site of action. This bulletin may be ordered through: Information Technology and Communication Services, University of Illinois, Marketing and Distribution, 1917 South Wright Street, Champaign, IL 61820 or by calling 1-800-345-6087 or by e-mailing acespubs@uiuc.edu.

New Guide on Early Spring Weed Id and Control

A new color North Central Regional Publication on the identification and management of vegetation commonly found in no-till fields is available from the University of Missouri. This 22 page guide contains over 130 color photographs of both vegetative and reproductive stages of 45 weeds common to crop fields across much of the United States. The guide also contains a taxonomic key to aid in identification and a table listing the sensitivity of various species to selected herbicides. The guide (NCR 614) is available from University of Missouri, Extension Publications, 2800 Maguire Road, Columbia, MO 65211-0001 or by calling 573-882-7216.

Annual CAST Report to the North Central Weed Science Society

by Thomas Peters
December 9, 2000

Council for Agricultural Science and Technology (CAST) Board of Directors meet semiannually and by electronic mail and conference calls on an as needed basis. This year, we met in Arlington, VA from March 23 to 25 and in New Orleans, LA from September 27 to October 1, 2000. This report presents decisions and activities for calendar year 2000.

CAST's mission is to identify food and fiber, environmental and other agricultural issues and to interpret related scientific research information for legislators, regulators, and the media for use in public policy decision making. The strength of CAST is the breadth of its 38 member societies and their 180,000 member scientists. From this pool of scientists, CAST can use its member society network to identify experts in a wide range of biotechnology areas to share scientific understanding with the public. CAST continues to grow in stature as a recognized source of science information for food, agricultural, and environmental issues. CAST products, officers and Dick Stuckey, Executive Vice President, are each in very high demand. Agricultural policy-makers increasingly invite CAST to provide testimony on key issues, and to review reports from the National Academy of Sciences, National Research Council, and Federal agencies. These CAST services have influenced the direction and speed of Congressional decisions and actions on important issues. CAST publications on topics of national importance also have

significant impact. Detailed information is available on the CAST web site <http://www.cast-science.org> or by contacting the CAST office at (515) 292-2125.

Harold Coble (North Carolina State Univ.) is the current CAST president, beginning a one-year term following the New Orleans meeting in October. Brad Inman (CH2M-Hill, Gainesville, FL) is president-elect. David Knauft (Univ. of Georgia) is past-president. Dick Stuckey continues to serve as Executive Vice President for CAST.

Current weed scientist on the board are Bill Witt (Univ. of Kentucky) representing the Weed Science Society of America, Bob Sweet (Cornell Univ.) representing the Northeastern Weed Science Society, Alan York (North Carolina State Univ.) representing the Southern Weed Science Society, Rod Lym (North Dakota State Univ.) representing the Western Society of Weed Science and Tom Peters (Monsanto) representing the North Central Weed Science Society.

CAST representatives testified on several initiatives of importance to NCWSS members during 2000. They included testimony by David Lineback, Ph.D., Univ. of MD, to the USDA Citizen Advisory Board on Biotechnology and Richard E. Stuckey, CAST executive vice president, at a Congressional hearing on carbon cycle research and the role of agriculture in reducing climate change. CAST submitted comments to the U.S. Food and Drug Administration on Docket 99N-4282, "Biotechnology in the Year 2000 and Beyond." CAST briefly addressed the set of six questions posed in the October 25, 1999 *Federal Register*.

CAST representatives served as host or co-host to several briefings or workshops of importance to NCWSS members during 200 including a)

briefing on Biotech Corn (StarLink™) in partnership with the Alliance for Better Food in Washington D.C. by Lester Crawford, Steve Taylor, Anne Bridges and Earle Nestmann and b) briefing on Biotech Corn (StarLink™) in Washington D.C. by Steve Taylor and Lloyd Rooney. CAST is collaborating with the International Food Information Council and the Georgetown University Center for Food and Nutrition Policy in an ongoing effort to disseminate scientific information and facts about current food biotechnology issues to the national media. Summaries are available on the CAST web site.

A recent publication of direct interest to NCWSS members include: the issue paper, *Invasive Plant Species*, at a series of briefings in Washington, D.C. The release of the paper was scheduled to coincide with National Invasive Weed Awareness Week, February 28 through March 3. Other publications of interest to NCWSS members include: the issue paper, *Relevance of Soil Testing to Agriculture and the Environment* and the issue paper, *Storing Carbon in Agricultural Soils to Help Mitigate Global Warming*.

Forthcoming publications of direct interest to NCWSS members include: the report, *Integrated Pest Management*, the report, *Urban Agriculture* and the issue paper, *Vertical Integration of Agriculture and its Impact on Rural America*, the issue paper, *Movement and Impacts of Detrimental Non-Native Organisms Affecting Agricultural Production and Natural Resource Environments (pests)* and the report, *Global Climate Change*. Additional information about these or other issue papers or reports can be found at the CAST web site, <http://www.cast-science.org>.

The CAST Board of Directors approved five new topics for issue paper projects at its September meeting in New Orleans. These include: "Ethics in Agriculture," "Natural Products called Nutraceuticals," "Animal Diet Modification to Reduce Potential for Nitrogen and Phosphorus Pollution," "Testing and Regulation of Crops Developed through Biotechnology for the U.S. Market," and "Environmental Impacts of Livestock Grazing Systems."

CAST Board of Directors continue to make progress on a strategic plan for 2000 to 2005.

The CAST Board of Directors approved a position statement on biotechnology at the fall board meeting.

National Association of Colleges and Teachers of Agriculture (NACTA). NACTA has joined CAST as a member society. NACTA is a professional society that focuses on promotion and recognition of excellence in teaching agriculture and related areas at the post secondary level in North America. For more information, see their web site at <http://nacta.cses.vt.edu/nacta/index.html>.

Cindy Lynn Richard joined CAST as Biotechnology Communications Coordinator in July. Richard will contribute to CAST's efforts to enhance public understanding of agricultural and food biotechnology and related science issues by providing the public with easy access to information on biotechnology to make informed decisions. Based in Washington DC, Richard will work with the 38 CAST member scientific societies to identify biotechnology issue experts. She will serve as the first contact for news media, and determine the most appropriate experts to respond to journalists' queries. Richard has initiated biotechnology web page at <http://www.cast-science.org/>

biotechnology/index.html. A certified industrial hygienist, Richard comes to CAST from ACHIEVA, Inc. where she served as senior scientist on a number of agriculture, biotechnology, and environmental exposure issues. She has invested much of the past several years working to assist scientists in enhancing their communications and serving as a resource for media covering technical issues. Contact: Cindy Lynn Richard (CIH), phone (515) 292-2125, Ext. 41, crichard@cast-science.org.

Dr. Kayleen Niyo, Managing Scientific Editor, announced her retirement effective December 31, 2000. Kay's position will be filled by Linda Chimenti, an editor with many years of experience and Master's degree in Library Science.

Dennis R. Keeney received the Charles A. Black award at the Spring Board meeting. The award is presented annually to a food or agricultural scientist actively engaged in research who has made significant scientific contributions to his/her scientific field, and communicates the importance of this work and of food and agricultural science to the public, policy makers and news media. Dr. Keeney became the first director of the Leopold Center for Sustainable Agriculture at Iowa State University. Keeney also served as chair, Department of Soil Science at University of Wisconsin-Madison.

The fifth Conversations on Change workshop, "Taking the Conversations Home," took place in San Diego, CA. Highlights included interaction with science educators and students, meetings of society leaders, and progress on initiatives. The Conversations program, funded through a primary grant from the Kellogg Foundation, continues to provide opportunities for

all CAST professional societies to grow in the quality of programs they furnish to their individual members. Further information is available at <http://www.societies.org>

CAST Board meetings are strongly oriented toward meetings of work groups and committees. Four work groups and six standing committees meet twice at each meeting. Work groups represent topics related to animal sciences, plant and soil sciences, plant protection sciences, and food sciences and agricultural technology. These work groups are the engines that generates thoughts that ultimately result in CAST products such as issue papers and reports. Standing committees focus on issues relating to membership, liaison with outside audiences, topics of national concern, finances, science education, and editorial matters.

The CAST representative from the NCWSS participates in the Plant Protection Sciences Work Group. Biotechnology acceptance issues continue to be of critical importance to the work group.

CAST continues to be a strong and worthy investment for NCWSS. The CAST mission includes representing issues broader than those of importance to single scientific societies. NCWSS members, officers, and affiliates are urged to provide guidance on issues that you deem important enough to be addressed by CAST.

The spring CAST Board meeting is March 15 to 17, 2001 in Alexandria, VA. CAST can be contacted by telephone (515-292-2125), fax (515-292-4512), email (cast@cast-science.org), web (<http://www.cast-science.org>), or via NCWSS representative Tom Peters (636-737-7679), fax (636-737-6950), email (tom.j.peters@monsanto.com).

Necrology

The committee received notification of four deaths of longtime friends associated with the North Central Weed Science Society. Our thoughts and prayers are extended to the families of Gary Gabrielson, Dr. Dan Hess, Dr. Larry Mitich, and Dr. Ed Stroube.

Dan Hess

Dan Hess died August 4, 2000 after a 2- year battle with cancer at the age of 53. Dan was born in Tacoma, Washington on March 22, 1946. Dan received his BS degree from Michigan State University in 1969 and both his MS and PhD degrees from University of California at Davis in 1973 and 1975, respectively. In 1975, Dan received the Outstanding Graduate Student Award from the Weed Science Society of America. Dan began his career as an assistant professor at Colorado State University in 1976. From 1977 to 1985, he was an associate professor at Purdue University where he conducted research on the mechanism of action of PSII inhibitors, mitotic disruptors and protox inhibitors and taught advance weed science. Dan left Purdue in 1985 to work for Zoecon, Sandoz and later Novartis holding such positions as Research Leader, Director of Biology and Biochemistry Research, Director of Research, Strategic Products and Vice-President of Research. Also in 1985, Dan received the Outstanding Weed Scientist Award from the WSSA. In 1998, Dan initiated a new agricultural research venture within Affymax Research Institute. Dan was active in the North Central Weed Science Society as chairperson for various program sections and presented many papers. In 1998 Dan served as President of the Weed Science Society of America and was an active contributor on committees and served on the board of directors. Dan was noted by many fellow scientists to be an exceptional communicator who could clearly explain complex subject matter. One of Dan's last wishes, to start up an

endowment fund for a graduate student in weed science, has been established at The University of California at Davis, The F. Dan Hess Endowment for Applied Agriculture. Dan is survived by his wife, Deborah J. Hess of Emerald Hills, CA; his three children Tiffany Dodge of Palo Alto, CA; Scott Hess of Miami, FL; Tonya Weaver of St. Paul, MN; and three grandchildren Tyler, Blake and Tristan.

Edward W. Stroube

Edward W. Stroube died November 25, 2000 at Riverside Methodist Hospital in Columbus, OH at the age of 73. Ed was born April 2, 1927 in Christian County, Kentucky. He received both his BS and MS degrees from the University of Kentucky in 1951 and 1959 respectively, and went on to obtain his PhD from the Ohio State University in 1961. While at Ohio State University, Ed worked with conservation tillage systems and was a leader in no-till crop production. After 25 years of service, Ed retired from The Ohio State University in 1985 where he had served as Assistant Chairman of the Department of Agronomy, Extension Weed Scientist and Professor. Dr. Stroube served as President to the North Central Weed Control Conference in 1980. In 1984, Dr. Stroube received Honorary Membership, the highest honor of the North Central Weed Control Conference. Ed was a retired Colonel of the Air Force Reserve, a member of the Alpha Gamma Rho and Alpha Zeta Fraternities, Reserve Officers Association, American Association of Agronomy, Weed Science Society of America and the Ohio State and University of Kentucky Alumni Associations. Ed was also known as a huge UK basketball fan. He is survived by his wife of 46 years, Evelyn; sons, Mark Stroube of Tulsa, OK and Paul Stroube of Berkely, CA; daughter Mary Ellen Hatch of Columbus; grandchildren Hadley, Carter and Marney Hatch; and two sisters, Margaret Blackwell and Carolyn Mosley.

Larry W. Mitich

Larry W. Mitich died August 16, 2000 of natural causes at the age of 73. Larry was born and raised on a ranch in Wyoming. He received his MS and PhD degrees at the University of Wyoming in 1955 and 1963, respectively. In 1963 Larry joined the Cooperative Extension Service at North Dakota State University where he served for over 17 years as the first extension weed scientist at NDSU. His first program was a special demonstration-research effort to improve the productivity of North Dakota native grasslands. The financial benefit from this program continues to this day. While at NDSU Larry was actively involved in the North Central Weed Science Society, serving on many committees. He was on the Board of Directors and editor of both the Research Report and the Proceedings. He received the NCWSS Distinguished Service Award in 1978 and was named an honorary Member of NCWSS in 1981. Larry was named a Fellow in four organizations, North Central Weed Science Society, Western Society of Weed Science, Weed Science Society of America, and the Cactus and Succulent Society of America. In WSSA Larry was President in 1987, a Fellow in 1991, and Outstanding Weed Scientist in 1995. In WSSA Larry was an editor of the WSSA Newsletter and Weeds Today for three years each. He received the WSSA Extension Worker Award in 1978, was named a WSSA Fellow in 1983 and served as WSSA President in 1991. He also served as an associate editor of Weed Technology. Larry was known as an Historian of Weeds because of the many papers he wrote for Intriguing World of Weeds and his presentations at scientific meetings about many of the early Weed Scientists that shaped our science. Charlotte Mitich, Larry's wife of 45 years, survives him and resides in Davis, California.