

# NCWSS *News*

North Central Weed Science Society

Volume 16, Number 2, Summer 1999

## In This Issue

- ✿ *Call for Papers* ..... 2
- ✿ *Call for Nominations* ..... 7
- ✿ *Help Needed: Graduate Paper and Poster Contest Judges* ..... 8
- ✿ *Position Announcement* ..... 9
- ✿ *1999 Committee Participation Request Form* ..... 9
- ✿ *Title Submission Form* ..... 10

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



North Central  
Weed Science Society

## Columbus Hosts 1999 NCWSS Annual Meeting

Join us in Columbus this December for what promises to be a great NCWSS annual meeting. Our host hotel is the Hyatt Regency Columbus, which boasts outstanding facilities and close proximity to many restaurants and attractions in the downtown area. The meeting will take place on December 13 to 16, 1999, which is somewhat later than in previous years, so mark your calendar now.

Columbus is a city with many attractions. COSI Columbus, the city's nationally renowned center of science and industry, will move to a dynamic new home on the west bank of the downtown riverfront in late 1999. Other downtown visitor attractions include the recently renovated Ohio Statehouse, the Columbus Museum of Art, and the Columbus City Center shopping mall. Three restored historic theaters, the Ohio, the Palace, and the Southern, and the modern Riffe Center, stage performances by a number of performing arts groups. Columbus' historic downtown neighborhoods, the German Village, the Brewery District, and the Short North, have many popular gathering spots. Many excellent restau-

rants and several microbreweries are within walking distance or a short taxi ride from the Hyatt Regency. Also worth seeing in December is the Columbus Zoo, the nation's fifth largest, which is decorated with millions of lights for the holidays. You might also plan a visit to the new OSU Schottenstein Center/Value City Arena to catch a Buckeye basketball game.



©Rod Berry

Your program chair, Jim Kells, and the Local Arrangements Committee are working to make sure you have an informative and enjoyable stay in Columbus. If you have questions, comments, or suggestions, please feel free to contact your local arrangements chair, Mark Loux at 614-292-9081, or [loux.1@osu.edu](mailto:loux.1@osu.edu). We look forward to seeing you in December.

---

# Call for Papers

---

## Call for papers for the 54th Annual Meeting of the North Central Weed Science Society

Hyatt Regency Hotel, Columbus, OH,  
December 14-16, 1999

### NCWSS Members and Other Interested Parties:

This issue of the NCWSS Newsletter serves as the CALL FOR PAPERS for the 1999 meeting of the North Central Weed Science Society. You will not be receiving additional notices, so mark your calendar and submit your presentations by SEPTEMBER 1, 1999. Submissions received after SEPTEMBER 1 may be placed in alternate sections, switched to the poster session, or rejected, depending on the availability of space in the sections.

To make paper submission more convenient and efficient, we have initiated a NCWSS Web Site submission process. The details of the process are covered later in this Call for Papers. Please strongly consider using this method for paper submission and carefully follow the instructions. Your cooperation in using this system is appreciated.

Due to the continued growth and success of the Poster Session, posters will be grouped by section and displayed through Wednesday afternoon. To designate the desired section, specify the section preference with your title submission as you would for an oral paper presentation.

The 1999 program will again feature the Graduate Student Paper and Poster Contests. Students are eligible to compete in both contests. As usual, we are looking forward to top-quality, innovative presentations by the students. Guidelines for the contests are found later in this Call for Papers.

The program will begin Tuesday morning December 14, 1999 and will conclude at noon Thursday, December 16, 1999. The theme for this year will be "Weed Science in Transition". Please keep this theme in mind as you develop your presentation for the meeting. Symposia will again be an important feature of the meeting. Topics for this year's symposia are: 1) Forensic Weed Science, 2) Biology and Management of Weed Seed Banks, and 3) Impacts of Biotechnology on Weed Science.

Thank you for your participation and support of the North Central Weed Science Society. If you have any suggestions to improve the program, please let me know.

James J. Kells  
President-Elect and Program Chair  
(517) 355-2173

## Preparation of Title Submission

**Please read and follow all instructions when preparing and sending title submission information.**

Indicate whether the presentation is a poster or paper, and then select the section in which you want to make your presentation from the list of sections. Identify your first and alternative choices. Any questions pertaining to the appropriateness, etc., of your presentation in these sections can be answered by contacting the Program Chair or the respective Chair of that section.

Type the title, authors, affiliation (institution, agency, or company) and location (city and state) exactly the way they are to be printed in the program. Include the full first name and middle initial of the authors, rather than just initials. Do not include departments or division, zip codes, or the name of the state if it is a part of the institution's name. Designate with an asterisk (\*) the author who will present the paper. Give the common names of weeds, herbicides, and crops. Study the examples below:

Control of Velvetleaf in Soybean with Clomazone. Jeffrey L. Gunsolus\* and Beverly R. Durgan, Univ. of Minnesota, St. Paul.

Tolerance of Corn to Flumetsulam plus Clopyralid. Joe L. Pafford\* and Scott C. Ditmarsen, DowELanco, Indianapolis, IN.

Postemergence Herbicides for Broadleaf Weed Control in Corn. Loyd M. Wax\*, J. Boyd Carey, and Marshal D. McGlamery, USDA-ARS, Univ. of Illinois, Urbana; American Cyanamid Co., Champaign, IL; and Univ. of Illinois, Urbana.

Phenology and Photosynthesis of Common Lambsquarters in Soybean, Snap Bean, and Field Corn. Jed B. Colquhoun\*, Larry K. Binning, David E. Stoltenberg, Chris M. Boerboom, and Timothy R. Connell, Univ. of Wisconsin, Madison.

Do not use trade names in the title of a paper. If the herbicide does not have a common name that is accepted by WSSA (See WSSA Home Page at <http://ext.agn.uiuc.edu/wssa/>), it should be identified by giving the code number. If the trade name of a chemical appears in the title, the authors must supply a suitable justification statement for using the trade name. In scientific reporting, trade names are required very infrequently. All other chemicals, such as surfactants, protectants, other pesticides, etc., should be identified by common name or code number.

---

# Call for Papers

---

## Procedures for Submitting Titles

Submission of title information via the submission form on the NCWSS Web Site is strongly encouraged. If you do not have access to the internet, titles may be submitted via fax or surface mail using the title submission form.

### Web Site Submission Instructions

- A. Contact the NCWSS Web Site at: <http://www.ncwss.iastate.edu/>
- B. Follow the instructions on the screen.
- C. Send a separate form for each paper.
- D. The Program Chair will acknowledge receipt. If you do not receive an acknowledgment by September 7, please contact the program chair by phone or e-mail to determine the problem.

**Note:** Unlike previous years, you do not need to send titles to multiple addresses. Simply submit the form once. The information will automatically be forwarded to the appropriate individuals.

### It's that simple!

### Submission by mail or fax

Submit a copy of the Title Submission Form to:

James J. Kells  
Department of Crop and Soil Sciences  
Michigan State University  
East Lansing, MI 48824  
Fax: (517) 353-5174

The Program Chair will use this copy to prepare the program, assigning your presentation to appropriate sessions and time slots. You also need to send a second copy of the Title Submission Form to:

Carole A. Lembi/Merrill A. Ross  
NCWSS Proceedings Co-Editors  
Department of Botany and Plant Pathology  
Purdue University  
West Lafayette, IN 47907-1155  
Fax: (317) 494-4621

They will then send you instructions for preparing abstracts or manuscripts of your presentation for publication in the NCWSS Proceedings. Do not send your abstract, manuscript, or computer

disk to the Editors; present it to the Session Moderator when you present your paper or poster.

If you are participating in the Graduate Student Paper Contest, you need to send a third copy of the Title Submission Form to the Contest Chair:

Reid Smeda  
292 Waters Hall  
University of Missouri  
Columbia, MO 65211  
Fax: (573) 882-1467

If you are participating in the Graduate Student Poster Contest, you need to send a third copy of the Title Submission Form to the Contest Chair:

Dave Johnson  
American Cyanamid Co.  
547 Cretin Avenue S  
St. Paul, MN 55116  
Fax: (651) 690-3495

In summary, send copies of the Title Submission Forms to both the Program Chair and the Proceeding Editors. Also, send a third copy to the Contest Chair if this presentation is entered in either Graduate Student Contest.

---

*If you have submitted your title electronically, do not submit the paper submission form by mail.*

---

---

# Call for Papers

---

## Sections and Chairs

Alternate Communications Systems	
Alan Haack .....	(515) 267-8161
Cereals and Oilseeds	
Jeremy Frie .....	(701) 281-3959
Corn and Sorghum	
Duane Rathmann .....	(507) 835-2580
Equipment and Application Methods	
John Fenderson .....	(316) 825-4379
Extension	
Aaron Hager .....	(217) 333-4424
Forage and Range	
Walter Fick .....	(785) 532-7223
Herbicide Physiology	
Tracy Klingaman .....	(815) 498-1057
Industrial, Forestry, Turf, and Aquatic	
Jerry Doll .....	(608) 263-7437
Regulatory and Crop Consultants	
Jon Baldock .....	(608) 845-7993
Soil and Environmental Aspects	
Jennifer Simmons .....	(217) 333-8632
Soybeans and Annual Legumes	
Joseph Bruce .....	(217) 897-6699
Sugarbeets, Horticulture, and Ornamentals	
Bob Wilson .....	(308) 632-1263
Weed Ecology and Biology	
John Lindquist .....	(402) 472-2771

## Oral Presentations

A 15-minute paper (including time for questions) is suggested. Time slots of other than 15 minutes may be allowed by the Program Chair for special situations. Carousel projection equipment for 2" x 2" slides will be standard equipment. If other equipment is needed, please discuss your needs with the Section Chair. The speaker must provide any special equipment to be used in the presentation.

You are asked to submit a paper or abstract for inclusion in the NCWSS Proceedings. The paper or abstract should be presented as a hard copy and on a computer disk to the session moderator at the time the paper is presented. The Proceedings Editor will send instructions for submitting papers and abstracts to the Proceedings when your title is submitted.

## Poster Session

**(Chair: Rick Bottoms, 660/446-3724)**

The poster session begins at 8:00 AM on Tuesday morning, December 14. One poster mounting board, approximately 48 inches x 48 inches, supported on an easel will be provided by the NCWSS. The authors will be with their posters from 8:00 to 9:45 AM and from 4:00 to 5:00 PM on Tuesday, December 14. Posters will be positioned in the same area with the Sustaining Member displays and will remain in place all day Tuesday and until noon on Wednesday. Posters should be removed between 2:00 and 4:00 PM Wednesday. Posters will be arranged according to subject, so please indicate your section preference on the Title Submission Form. Additional details will be mailed to each poster author in early October. You are asked to submit a paper or abstract for inclusion in the NCWSS Proceedings. The paper or abstract should be presented as a hard copy and on a computer disk to the Poster Session Chairperson on Tuesday morning. The Proceedings Editor will send instructions for submitting papers or abstracts for the Proceedings when your title is submitted. The poster room will be open on Monday evening, December 13, and you are strongly urged to set up your poster at that time.

---

*Please bring 50 copies of your abstract to the meeting. These will be made available at the meeting for those interested in your research.*

---

---

# Call for Papers

---

## Alternate Communications Systems

The Alternate Communications Systems session is open to all subject areas and will allow a presentation to be made with a computer or a VHS video cassette tape or when a computer or a VHS video tape is a portion of an oral presentation. The room will not be set up with any other projection equipment.

The Alternate Communications Systems session will follow the format of the oral presentation and should be presented at the same technical level as a presentation that might be in any other session. A 15 minute presentation is suggested, including time for questions. Therefore, the actual running time of the tape should not exceed 10 to 12 minutes. If more time is needed, please make arrangements with the Program Chair. We intend to keep the video presentations on the same time schedule as other presentations.

An abstract or paper should be presented to the session moderator as a hard copy and on a computer disk at the time of the presentation for publication in the NCWSS Proceedings. All guidelines for a paper presentation should be followed in preparation of this abstract. We encourage you to present your video tapes that have already been developed for use in teaching, extension and industry that may be edited to fit the time frame of the meetings. In your introduction, please indicate if the unedited version of the tape or the tape presentation would be available for use by members of the NCWSS.

## Graduate Student Paper Contest

**(Chair: Ried Smeda, 573/882-1329)**

Awards will be presented to graduate students giving outstanding papers at the 1999 meeting of the North Central Weed Science Society. Awards will be presented to the first and second place winners at the banquet. Any graduate student who is registered in attendance at the NCWSS meeting and has conducted the research

being reported while a student in the North Central Region is eligible to compete in the contest, except those having won first place in a previous contest.

Graduate students may enter the paper contest by submitting the Title and indicating entry into the contest. An abstract or full paper must be presented as a hard copy and on a computer disk to the Section Moderator at the time of presentation for publication in the Proceedings. The criteria for evaluation of presentations can be found on page 221-222 of the Proceedings of the 1998 North Central Weed Science Society.

Participating graduate students will receive a free banquet ticket from the NCWSS. Awards will consist of certificates of achievement and a minimum monetary award of \$100 for first place and \$50 for second place to the winners in each division (if divisions are necessary). The Contest Chairperson in charge of the graduate student paper contest is Reid Smeda.

## Graduate Student Poster Contest

**(Chair: Dave Johnson, 651/699-0173)**

The graduate student poster contest will be parallel in concept to the graduate student paper contest. Graduate students may enter the paper contest by submitting the Title and indicating entry into the contest. An abstract or full paper must be presented as a hard copy and on a computer disk to the Section Moderator at the time of presentation for publication in the Proceedings. The criteria for evaluation of presentations can be found on page 222 of the Proceedings of the 1998 North Central Weed Science Society.

Participating graduate students will receive a free banquet ticket from the NCWSS. Awards will consist of certificates of achievement and a minimum monetary award of \$100 for first place and \$50 for second place to the winners in each division (if divisions are necessary). The Contest Chairperson in charge of the graduate student poster contest is Dave Johnson.

---

# Call for Sustaining Member Displays

---

## Guide for Preparing Displays

1. **Products and services displayed.** Examples of products and services that Sustaining Members may display to present information that advances weed science and technology include herbicides, computers, data collectors, application equipment, application services, contract research services, laboratories, publications, crop varieties, weed seed supplies, research plot equipment, toxic waste disposal services, packaging, transportation, media equipment, teaching aids, and communication technology.
2. **Space available.** Each exhibit must be contained within a space 10 feet wide by 8 feet deep unless special permission is received from Brent Peterson.
3. **Tables available.** Rectangular tables with dimensions of 6 x 2.5 feet will be available. Exhibitors may use them for displays that fit the prescribed available space.
4. **Electrical current.** Standard electrical receptacles for 120-volt current will be available. Please bring a 50-foot extension cord to assure accessibility.
5. **Sounds and lights.** Displays with sounds or lights that would distract from other displays will not be permitted. Silent slide projectors and video equipment are permitted.
6. **Time for set-up.** The display room will be open for setting up exhibits Monday evening, December 13. The displays must be removed before 4:00 PM on Wednesday, December 15.
7. **Staffing displays.** It is recommended that exhibitors have personnel at their exhibits during the normal hours of the meeting, but displays may be either manned or self-explanatory. It is especially important that the exhibits be staffed during the poster session from 8:00 to 9:45 AM and from 4:00 to 5:00 PM on Tuesday, December 14. The commercial exhibits and posters will be near each other, and many people will visit both during the scheduled poster session.
8. **Number of displays.** Each sustaining member is entitled to only one display. Non-Sustaining members may not share space with Sustaining Members.
9. **Sales activities and business transactions** will not be permitted in the display area. Likewise, promotional activities that detract from the professional integrity of the NCWSS will not be permitted.
10. **Shipping of Displays.** Please make your own arrangements for shipping your display to and from the hotel.
11. **Becoming a Sustaining Member of the NCWSS.** For information on how to become a Sustaining Member of the NCWSS, contact Brent Peterson, Chair of the Industry Committee, phone (507) 684-2029.
12. **Contact Person.** The coordinator of the Sustaining Member Displays at the Columbus, OH meeting is Brent Peterson, Griffin LLC, 8113 SW 158th Street, Ellendale, MN 56026. Phone/Fax: (507) 684-2029.

---

# Call for Nominations

---

## Distinguished Achievement Awards

It's time to nominate your outstanding colleagues in the following award categories:

- Education
- Industry
- Professional Staff
- Research
- Service
- Young Scientist

The North Central Weed Science Society seeks to recognize the outstanding contributions of its members through the Distinguished Achievement Awards, but we need your help. The most deserving candidates will not receive awards if they are not nominated.

Complete details on the nominating process and eligibility of nominees and nominators will be published in the 1998 NCWSS Proceedings. The deadline for submission of all nomination materials to the committee chair will be September 10, 1999.

As chair of the committee, I am willing to apply one of the guiding principles of my life. That is, rules are made to be bent, sometimes severely. The point is, if you feel that the rules are constricting your ability to secure a worthy nominee, contact me and we can try to work it out. The goal is to get deserving people nominated.

Please direct questions and requests for nomination forms and instructions the Distinguished Achievement Award Chair, Doug Buhler, USDA-ARS National Soil Tilth Laboratory, 2150 Pammel Drive, Ames, IA 50011. E-mail [buhler@nsl.gov](mailto:buhler@nsl.gov), phone 515 294-5502, and fax 515 294-8125.

## Call for Nominations for NCWSS Fellows

Contact Brent Peterson indicating your intention to nominate someone as a Fellow or to suggest a nominee.

Selection as a Fellow is the highest honor the society bestows on its members and is limited to 0.5% of the membership annually.

The Fellow Committee is responsible for identifying those individuals most deserving of this recognition. To assist with this task, members of the Society are encouraged to submit nominations for NCWSS Fellows or to suggest possible nominees for this award to the Chairman of the Fellow Committee, Brent Peterson.

The deadline for submitting nominations and supporting letters for this year is September 19, 1999. Directions for submission of nominations can be found in the Proceedings of the NCWSS. Eight copies of the nomination should be submitted to: Brent Peterson, 8113 S.W. 158<sup>th</sup> St. Ellendale, MN 56026; (507) 684-2029.

## WSSA Undergraduate Research Award—Year 2000

The Weed Science Society of America has developed an Undergraduate Student Research Grant designed to encourage and involve exceptional undergraduates in agricultural research. Interested faculty members are encouraged to identify potential award candidates and discuss the possibility of sponsoring a research project. Awards may be used as a stipend, for research budget expenses (travel, supplies, etc.), to defer fees, to defray living expenses for summer research, or any combination of these items.

**Award:** Up to \$1,000 for support of undergraduate research to be conducted over a minimum of one quarter/semester during 2000. This award may be used to defray the cost of research supplies or as a stipend. Support of a faculty sponsor is required. Awards will be made to the student, to be administered by the faculty sponsor's department

**Applicant:** The applicant is an undergraduate student with a strong interest in Weed Science. Students majoring in all related disciplines may apply

**To Apply:** Applicants should prepare a 2-3 page research proposal including name, address, phone number, title, objective, experimental approach discussion, budget and references. The discussion section of the proposal should describe the expected results and their possible significance to Weed Science. The student should provide a cover letter in which general academic and career goals are discussed. A copy of the students academic transcripts should also be provided.

**Faculty Sponsor:** Any faculty member who is actively engaged in Weed Science research is qualified to be a sponsor. The faculty sponsor should review the research proposal with special attention to the budget, the distribution of funds should be approved by both the student and sponsor. In addition, the sponsor should provide a letter of reference including a statement of his/her willingness to supervise the proposed research and to provide needed space, equipment and supplies above those requested in the proposal. The sponsor is encouraged to assist the student in presenting his/her results at a regional Weed Science Meeting.

**How to Apply:** The completed proposal, academic transcripts, cover letter and faculty letter of support should be forwarded to: Dr. John Jachetta, Dow AgroSciences, 9330 Zionsville Road, Indianapolis, IN 46268-1054; Phone: (317) 337-4672, Fax (317) 337-4649, E-mail: [jjjachetta@dowagro.com](mailto:jjjachetta@dowagro.com), Proposals should be received no later than November 15, 1999. Funding decisions will be made by January 25, 2000 and presented at the 2000 WSSA National Meeting Awards Banquet.

---

## Help Needed: Graduate Paper and Poster Contest Judges

If you would be willing to be a judge for the Graduate Student Paper or Poster Contest at the 1999 December Meeting please contact:

**Poster Contest:**

Dave Johnson  
American Cynamid Co.  
547 Cretin Ave. S.  
St. Paul, MN 55116  
651-699-0173

**Paper Contest:**

Reid Smeda  
Department of Agronomy  
University of Missouri  
202 Waters Hall  
Columbia, MO 65211  
573-882-2001

.....

## 2000 Committee Participation Request Form North Central Weed Science Society

I would like to volunteer to serve the NCWSS as a member of a committee starting in 2000. I am listing my order of preference to serve on the following committee(s) (subject to available space):

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_ I have no preference; I'm willing to serve where needed.

Name \_\_\_\_\_

Address \_\_\_\_\_

Telephone \_\_\_\_\_

Committee assignments will be made after the 1999 meeting, so your name will be kept on file for these assignments. This form should be returned to James J. Kells, Dept. of Crop and Soil Sciences, Michigan State University, East Lansing, MI 48824

---

## University of Kentucky Department of Agronomy Names New Chair

Dr. Michael Barrett was named Chair of the Department of Agronomy, University of Kentucky in April 1999. Mike was a Professor in the department before being named Chair. He joined the University of Kentucky in 1983 and developed a research program in herbicide selectivity mechanisms in plants that is internationally recognized. Mike was also on the faculty at Michigan State University as an Extension Specialist from 1980 until joining the University of Kentucky in 1983.

Mike obtained a B. S. in Plant and Soil Science from the University of Massachusetts in 1974, a M. S. in Plant Science-Agronomy from the University of Connecticut in 1976, and the Ph. D. degree from the University of California-Davis in 1980.

In recognition of his research endeavors, Mike has made numerous presentations at international meetings such as the International Plant Protection Conference, the American Chemical Society Meeting, International Weed Science Society meetings, Brighton Crop Protection Conference, and the Fourth International Symposium on Cytochrome P450 Biodiversity. He served on the national Research Initiative Competitive Grants peer panel in 1995 and 1997.

Mike has served on the Board of Directors for both Kentucky and Michigan and was Editor of the NCWSS Research Report from 1990 to 1998. He also served as Local Arrangements Chair for the NCWSS meeting in Lexington in 1989. In addition to the NCWSS, Mike is a member of WSSA, SWSS, IWSS, and CAST.

## Director, Center for Integrated Plant Systems (CIPS):

Full time, tenure track position at Michigan State University. Provide leadership for interdisciplinary research and extension programs to develop ecologically based, integrated crop management (ICM) policies, strategies, tactics, and tools. The director will be responsible for all CIPS operations, including overall leadership, development and management of budgets, and administration of resources. Must have earned doctorate degree in plant science/pathology, entomology, agricultural/resource economics, or a closely related discipline. Demonstrated leadership and administrative abilities, appreciation for

diverse interests and technology missions of dept. and commitment to land grant philosophy. Demonstrate strong and continuing commitment to scholarly achievement and have proven abilities in obtaining extramural funding. Excellent communication and outreach skills essential. For position description and application procedures please visit <http://www.cips.msu.edu>. Deadline: August 15, 1999, or until a suitable candidate is found. A letter of application, a statement of research, professional experience and philosophy, a curriculum vitae with supporting materials and arrange for three letters of reference to be sent to: Frank M. D'Itri, Institute of Water Research, 115 Manly Miles Bldg, Michigan State University, East Lansing, MI 48823, Tel: (517) 353-3744; FAX: (517) 353-1812; Email: [ditri@pilot.msu.edu](mailto:ditri@pilot.msu.edu).

## From your NCWSS Newsletter Editor

The deadlines for submitting items for the next two NCWSS Newsletters are September 1 and February 1. Preferred method of news item submission is by e-mail ([michael.j.horak@monsanto.com](mailto:michael.j.horak@monsanto.com)). Otherwise, contact:

Michael Horak  
Monsanto Company  
MC V2B  
800 N. Lindbergh Blvd.  
St. Louis, MO 63167  
(314) 514-8932

NCWSS Business Office Address and Phone  
NCWSS

1508 West University Avenue  
Champaign, IL 61821-3133  
Phone: (217) 352-4212  
FAX: (217) 352-4241

---

# Title Submission Form

**1999 North Central Weed Science Society Meeting**

**December 14-16, 1999**

**Hyatt Regency Hotel,**

**Columbus, Ohio**

**\*\*Do not submit this form by mail if you have submitted at the NCWSS Web Site (the preferred method)**

Every title submitted must complete steps 1, 2, 4, and 5. If this presentation is entered into the Graduate Student Contest, also complete step 3.

1. Submit only one copy of this form by mail or fax to: James J. Kells, Dept. of Crop and Soil Sciences, Michigan State University, East Lansing, MI 48824, Fax (517) 353-5174 by September 1, 1999.

Paper \_\_\_\_\_ Poster \_\_\_\_\_ (check one)

Section preference (specify for both papers and posters):

1st Choice \_\_\_\_\_ 2nd Choice \_\_\_\_\_

2. Also, send a copy of this form to: Carole A. Lembi/Merrill A. Ross, Co-Editors, NCWSS Proceedings, Department of Botany and Plant Pathology, Purdue University, West Lafayette, IN 47907, Fax (317) 494-4621. Do not mail your abstract to the Co-Editors, but present it to the Session Moderator when you present your paper at the meeting. Instructions for preparation of camera-ready copy and computer disk will be mailed to you by the co-Editors.

### 3. Graduate Student Paper or Poster Contestants Only

a. \_\_\_\_\_ Paper Contest

b. \_\_\_\_\_ Poster Contest

Send a third copy of this form to:

Send a third copy of this form to:

Reid Smeda  
292 Waters Hall  
University of Missouri  
Columbia, MO 65211

Dave Johnson  
American Cyanamid Co.  
547 Cretin Avenue S  
St. Paul, MN 55116

4. Please type title, authors, affiliation and location exactly as you wish information to appear in the NCWSS printed program; see "Preparation of Title Submissions" for specific directions and examples. Note: Include first name and middle initial of authors rather than just initials. Place an asterisk by name of the author that will deliver the paper if more than one author is listed.

5. Provide mailing address for author who will handle correspondence and inquiries from the Program Chair:

Name \_\_\_\_\_ Phone \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State or Province \_\_\_\_\_ ZIP or Postal Code \_\_\_\_\_

**Note:** A 35 mm slide projector is standard equipment and will be provided for speakers in all sections. Should you require equipment other than a 35 mm slide projector, please discuss your needs with your particular Section Chair. Speakers must provide any unusual equipment.

---

---