



**NCWSS Board Meeting Agenda  
Cedar Rapids & Council Bluffs  
Des Moines Marriott, Downtown  
1:00 PM CST on December 12, 2016**

**Conference call information:** 1-989-633-1166    **Access #:** 719 322 324

1. Call to Order (President): Anita Dille
2. Roll Call (Secretary-Treasurer): David Simpson
3. President Report: Anita Dille
4. President-Elect Report: Greg Dahl
5. Local Arrangements: Mike Owen
6. Vice President Report: Christy Sprague
7. Past President Report: John Hinz
8. Secretary-Treasurer Report: David Simpson
9. Executive Secretary Report: Phil Banks
10. Proceedings Editor Report: Greg Kruger
11. Communications Editor Report: Vince Davis
12. WSSA Representative: Reid Smeda
13. CAST Representative: Lowell Sandell
14. Director of Science Policy: Lee VanWychen
15. Strategic Planning Committee  
& Regional Directors: Dawn Refsell
16. Extension: Amit Jhala
17. Industry: Paul Marquardt
18. Resident Education: Mark Bernards
19. Graduate Student: Doug Spaunhorst
20. Old Business:
21. New Business:
  - Necrology Report
  - Voting Participation
  - New committee to oversee outstanding graduate student award and graduate student.

## ROLL CALL December 12, 2016 Board Meeting

Roll call [12 Quorum] 1:15 pm meeting called to order.

Officers	Names	Dec 12
President	Anita Dille	yes
President Elect	Greg Dahl	yes
Vice President	Christy Sprague	yes
Secretary-Treasurer	David Simpson	yes
Editor-NCWSS Proceedings	Greg Kruger	yes
Editor-Newsletter	Vince Davis	no
WSSA Representative	Reid Smeda	yes
CAST Representative	Lowell Sandell	yes
Past President	John Hinz	yes
Executive Secretary	Phil Banks	yes
Director of Science Policy	Lee VanWychen	Arrive 4:00

Directors at Large	Names	Dec 12
Strategic Planning	Dawn Refsell	yes
Extension	Amit Jhala	yes
Industry	Paul Marquardt	no
Resident Education	Mark Bernards	yes
Graduate Student	Doug Spaunhorst	no
Central Region	Tim Trower	yes
Western Region	Brady Kappier	no
Eastern Region	Eric Ott	no

### Minutes:

Meeting called to order at 1:15 pm. Quorum of 13 members present.

Mike Owens from Local Arrangement Committee provided update on hotel arrangements and expected issues. Poster session will only be one day on Tuesday due to facility space. Parking will be an issue for large trucks. Construction in area may cause some issues with skywalk. Recommendation from LAC for NCWSS to dispose of poster boards and easels and rent poster boards and easels in future. Poster boards are in need of being replaced, easels do not use space efficiently and cost for shipping and storage offset cost savings of renting.

Tara Steinke from IMI group was introduced as new Executive Secretary beginning in January. Phil is working to finalize transition by February.

Officer reports were provided to the board.

Additional issues discussed and action items:

- Low number of members voting in elections was discussed. President will take action to ensure the Nomination committee is meeting timelines for submission of candidates.
- Anita will create a new subcommittee of the Distinguished Awards committee for the Outstanding Graduate Student Award and the Student Travel Awards.
- Tara Steinke asked to work across Weed Science Society to select program app and investigate ability to share costs across the societies.
- Recommendation that Mark Bernards review the suggested edits to the student contest rules with the Resident Education Committee to finalize the proposed changes to the rules in MOP. The recommended changes to be sent to the board by end of December. Recommendation to use drop box to share feedback from board. A board meeting to be called in February to review and vote on the changes.

### **Summary of Motions:**

John Hinz moved and Tim Trower second the motion for Anita Dille to create a subcommittee of the Distinguished Awards committee to be responsible for the Outstanding Graduate Student Award and the Student Travel Awards. Recommendation that the past-past president chair the committee and the past Graduate Student Award winner be committee member.

John Hinz moved for the board to approve awarding 7 Student Travel Awards. Greg Dahl second. Motion passed.

Greg Dahl moved for the Local Arrangement Committee to properly dispose of the poster boards and easels. Christy second the motion. Discussion that NCWSS will rent the poster boards for future meetings. Motion passed.

Christy Sprague moved and John Hinz second accepting minutes from July 27, 2016 meeting. Motion passed.

John Hinz moved and Christy moved to accept the Site Selection Committee for the 2019 NCWSS Annual Meeting be held at the Hyatt Regency in Columbus, OH 12/9 Monday–12/12 Thursday 2019. Room rates will be \$139 single, \$139 double, \$164 triple and \$189 quad. per night. Rebate will be 5%, Food and Beverage Minimum \$10,000. Undergraduate Scholarship will include 3 comp. nights with breakfast plus the plaque for the winner. Motion passed.

Christy Sprague moved to adjourn. John Hinz second. Motion passed.

**Meeting adjourned at 4:34 pm.**

**President**

**Anita Dille**

**Date of Preparation: December 9, 2016**

**Officer/committee Activities during the Year:**

I want to say thank you to the North Central Weed Science Society for this opportunity to serve as your President over the past year.

Key activities and outcomes:

I serve as a representative on the WSSA Science Policy Committee. You will get a complete report from Lee Van Wyche on all the topics that were addressed. In particular, I participated in conference calls with the WSSA Board, other regional society representatives, and SPC members. No new letters required sign off from NCWSS since the summer board meeting.

We finalized the decision and have signed a contract with Gary Leeper, Vice President and CEO of Interactive Management, Inc., (IMI) with their headquarters in Westminster, CO. Tara Steinke will be our new Executive Secretary for NCWSS. There will be overlap with Phil Banks, our current Executive Secretary from Dec. 1, 2016 through Jan. 30, 2017 to facilitate the transition to IMI.

I want to gratefully acknowledge and thank Phil Banks for his service and leadership to the NCWSS as since 2009. I am looking forward to his continued interest and participation as a member of the NCWSS. Phil would like to continue to serve on the NCWSS Finance Steering and Policy committee.

As President, I enjoyed the opportunity to call and inform our 2016 Distinguished Achievement Award winners and our new 2016 Fellows of the NCWSS. I invited them to our annual meeting and to the awards luncheon on Wednesday. We can all congratulate them at the President's Reception on Monday afternoon. They were very appreciative of this recognition from the NCWSS.

I am excited about our 3<sup>rd</sup> annual "Women in Weed Science" Networking Breakfast planned for Wednesday morning from 6:30 to 8 am. There are nearly 50 members planning to attend. Our guest speaker will be Marji Alaniz, Founder and President of FarmHer, Inc., an organization that promotes stories and pictures of women in agriculture. I will be providing a \$500 reimbursement from my President's fund for her speaking engagement. Thank you to NCWSS for sponsoring this meal function.

Items for discussion:

I would like to review our procedures for voting for NCWSS Board positions, and why we have such poor participation (only 103 votes submitted out of all members)

I would like to discuss and plan to create of new committee to oversee the Outstanding Graduate Student Award and Graduate Student Travel awards - requesting nominations and screening. This committee could also propose further guidelines on process for these awards.

I would like to discuss a recommendation from the LAC about our poster boards and easels.

**President**

**Anita Dille**

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I would like to discuss a recommendation from the LAC about our poster boards and easels.

**President Elect**

**Greg Dahl**

**Date of Preparation: December 7, 2016**

**Officer/committee Activities during the Year:**

I have been working on planning for the North Central Weed Science annual meeting in Des Moines, IA in December 2016. This has been a real learning experience for me. I am looking forward to this program.

The 2016 printed program was sent to Phil Banks for final edits and sent to the printer. The printed program was put on the NCWSS Web site on October 28, 2016. Many thanks to Phil Banks, David Krueger, Anita Dille, John Hinz and others for all of their help.

I purchased a Guidebook License for an App. For the NCWSS meeting. The purchase price was \$3500. The NCWSS reimbursed me for this purchase. I learned much developing and loading the App for the meeting. I also had a lot of help from many people especially, David Krueger, Dawn Refsell, Anita Dille and John Hinz. The App was published on December 6, 2016 and the Society was notified on December 7<sup>th</sup>. There are many NCWSS members who have already loaded the App at the time of this report.

Mike Owen and the Local Arrangements committee have put together great plans for this meeting. Mike has provided great leadership, delegation and organizational abilities. I commend him and them. We have had several meetings and regular contact about the meeting, program and needs.

The 2016 NCWSS program consists of approximately 100 posters and 125 papers. A considerable number of the graduate and undergraduate students did not correctly provide information to get entered into the correct Poster or Paper Contest. It involved considerable effort to get the students into the correct contests. This is an issue that needs to be discussed. Hopefully it will be less of an issue for future meetings.

Posters will only be presented on Tuesday due to space limitations. My apologies to the Poster presenters and viewers. Hopefully this will not be an issue in 2017.

The program contains the General Session, Regular Sessions, and Three Symposia.

The Symposia are: “Public Issues and Communication Issues”, “New Technology Presentations” and “What’s New in Industry”. There will also be an Industry Breakfast Session led by Paul Marquart.

**Program planning:**

Placed meeting information in the NCWSS Fall 2016 newsletter.

Placed the “Call for Papers and Posters” in the NCWSS Summer 2016 newsletter.

The web site to submit papers and posters opened the end of July 2016.

Titles were due on Friday, September 9, 2016. Abstracts were due on Friday, November 11, 2016. Presentations were due on December 5, 2016.

President Dille will continue the “Women in Weed Science networking breakfast on Wednesday morning.

## ΝΧΩΣΣ Χομμιττεε ανδ Οφφιχερ Ρεπορτσ

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Other activities.

Participated in the 2016 NCWSS Collegiate Weed Science Contest, at Purdue/

Participated in the 2016 NCWS Summer Board of Directors meeting.

Received weekly reports from the Council for Agricultural Science and Technology.

I was involved in several of the responses to EPA regarding dicamba registration issues and other registration issues. I recommended that NCWSS support WSSA positions on those issues.

### **Motions/Action Items:**

**Request discussion on WSSA Abstract entry system and student issues/difficulties getting into poster and paper contests.**

**Recommend disposal of NCWSS easels for poster sessions.**

**Vice President**

**Christy Sprague**

**Date of Preparation: Dec. 6, 2016**

**Officer/committee Activities during the Year:**

My main activity for this past year was to represent the NCWSS on the WSSA – Public Awareness Committee. This committee is responsible for developing and publishing press releases on relevant and interesting weed science topics as well as general announcements for WSSA and related societies. This committee meets via teleconference every two weeks for a 1-hour call.

Recent press releases:

1. [New WSSA Factsheet Explores Weed Seeds and Their Longevity](#) (Dec. 6, 2016)
2. [Upcoming Annual Meetings of Science Societies to Offer New Perspectives on Weed Control](#) (Nov. 18, 2016)
3. [What Plants Sense and “Say” May Impact the Future of Weed Control](#) (Aug. 10, 2016)
4. [WSSA Scientists Say Herbicide Resistance Predates Genetically Engineered Crops by 40 Years](#) (July 12, 2016)
5. [Upcoming APMS Annual Meeting Spotlights Invasive Aquatic Plants](#) (June 27, 2016)
6. [WSSA Calculates Billions in Potential Economic Losses from Uncontrolled Weeds](#) (May 4, 2016)
7. [WSSA Survey Ranks Palmer Amaranth as the Most Troublesome Weed in the U.S., Galium as the Most Troublesome in Canada](#) (April 5, 2016)
8. [Get Ready for National Invasive Species Awareness Week 2016!](#) (Feb. 16, 2016)
9. [2016 Award Winners Named by Weed Science Society of America](#) (Feb. 9, 2016)
10. [WSSA Announces Availability of New Education Materials on Weeds and Their Impact](#) (Feb. 2, 2016)

**Motions/Action Items:**

I will be looking for symposium ideas for the 2017 NCWSS Program.





**President Elect**

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**Motions/Action Items:**

I will be looking for symposium ideas for the 2017 NCWSS Program.

**Past President**

**John Hinz**

**Date of Preparation: November 22, 2016**

**Officer/committee Activities during the Year:**

The main activity of the Past President is the Distinguished Achievement Awards. This also includes the Outstanding Graduate Student Award and the Graduate Student Travel Grants. The MOP allows for the awarding of 5 Distinguished Achievement Awards. There were 8 nominations for Distinguished Achievement Awards. The committee awarded 5 Distinguished Achievement Awards. The Executive Committee approved the winners and they were contacted by President Dille. The winners for 2016 were Richard Cole, Larry Hageman, Stott Howard, Amit Jhala and Mark Peterson. The names of the people who did not win were forwarded to President Dille as they will be eligible for the Distinguished Achievement Award again next year.

There were 7 nominations for the Outstanding Graduate Student Award. There were many outstanding nominees and it was very difficult to decide a winner, but one was selected. This person was approved by the Executive Committee and contacted by President Dille. The winner of the 2016 North Central Weed Science Society Outstanding Graduate Student is Travis Legleiter from Purdue University.

There 7 applications for the Graduate Student Travel Grant. The MOP specifies that 6 travel grants are available. The Distinguished Achievement Committee and the Executive Committee decided to award travel grants to all 7 students who applied. The students who applied were contacted that they were awarded travel grants. The winners will be recognized at the General Session by President Dille. This year's winners were Jeffrey Albers from Kansas State University, Nicholas Arneson from University of Nebraska, Ivan Cuvaca from Kansas State University, Samida Khadka from Kansas State University, Seth Menzer from Kansas State University, Seth Strom from University of Illinois and Jake Ziggafos from University of Nebraska.

**Motions/Action Items:**

The Board of Directors needs to approve the granting of 7 travel grants. The MOP specifies that only 6 travel grants will be awarded. I would like to add contact information to the Student Travel Grant application. The Distinguished Achievement Awards Committee would like another committee to take Student Travel Grant program.

**Secretary/Treasurer**

**David Simpson**

**Date of Preparation:**

**Officer/committee Activities during the Year:**

**As Secretary/Treasurer, I attended the NCWSS Summer Weed Contest on July 27<sup>th</sup>. Meeting minutes from July 27, 2016 have been reported to the board for review and approval of minutes. Reviewed the 2016 budget and expenses with Executive Secretary. The financial information will be included in the Executive Secretary report.**

**In previous meeting, question has been raised concerning increasing the annual meeting registration costs. Given proposed mergers/acquisitions of DuPont and Dow, Bayer and Monsanto, and Chem China and Syngenta, consideration of potential reduction in attendees from companies and expected elimination of 2 sustaining members should be considered in future budgets. An analysis of the potential financial impact will be required prior to setting the 2017 membership and registration costs.**

**Motions: Move to accept the minutes from the July 27, 2016 meeting.**

# ΝΧΩΣΣ Χορμιττεε ανδ Οφφιχερ Ρεπορτσ

## Executive Secretary

Phil Banks

Date of Preparation: November 30, 2016

### Executive Secretary Report:

The current (as of November 30, 2016,) net worth of NCWSS is \$483,121.23 which is \$ 15,413.21 less than reported on December 1, 2015. The main reasons for the posted net loss were: 1. Cost of the Weed Contest hosted by Purdue University (\$16,671.79); 2. Net change in the value of our RBC account (\$2,020.62). The attached Net Worth Statement shows the allocation of our assets. Total liquid assets (checking plus money market) represents approximately twice our annual operating expenses. We have \$134,473.45 in 5 CDs laddered such that one CD matures each year. There is \$ 111,461.93 invested with RBC. The asset allocation is 56.87% Bonds, 32.11% Market Short Hedge, 9.59% Stocks and 1.43% cash. Details of the investments will be shared with the Finance Committee. The attached Cash Flow Statement shows the distribution of income and expenses for the fiscal year 2015-16. This information and updated information will be forwarded to our accountant for tax filing (our tax year ended November 1, 2016). I will meet with the Finance Committee during the meeting to discuss our current investment allocation and any changes.

Pre-registration as of December 7, 2016 is 391 (21 Fellows, 107 Students, 263 Regular Members). For the Industry Breakfast, 75 have paid and Syngenta (Stott Howard) will cover the cost of 45 students that signed up. Forty-eight have signed up for the Women in Weed Science Networking Breakfast. Local Arrangements Chair, Mike Owen, and his committee have done a great job of preparation for the meeting. We have filled our contracted room block with the Des Moines Marriott Hotel.

I have been communicating with the new Executive Secretary, Tara Steinke of IMI. She will be in attendance for the meeting and will be working with me and my associate, Edward Morris, during the meeting. I have started the process of adding her and Gary Leeper to the bank and investment accounts as well as our PayPal merchant account. I will visit the IMI offices in Denver on January 11 and 12, 2017 to transfer various documents and go over procedures with Tara and Gary.

Below is a summary of past meeting preregistration:

	Des Moines	Indianapolis	Minneapolis	Columbus	St. Louis	Milwaukee
	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>	<u>2011</u>
Members	284	273	270	253	272	264
Students	107	<u>88</u>	<u>90</u>	<u>78</u>	<u>73</u>	<u>62</u>
Total	391	361	360	331	345	326
Final	???	402	401	375	411	360

**Budget needs:** Current operating budget for the NCWSS is approximately \$100,000/yr.

**Suggestions for future:** NCWSS Board and Committee Chairs will need to work closely with the new Exec. Secretary to ensure a smooth transition over the next year.

### Motions

## ΝΧΩΣΣ Χομμιττεε ανδ Οφφιχερ Ρεπορτσ

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### Net Worth - As of 11/30/2016

Account

#### ASSETS

Cash and Bank Accounts	11/30/2016	11/30/2015	Change YTD
CD #3 5yr @ 1.2% Matures 8/2019	44,787.69	44,253.59	534.10
CD #4 4yr @ 0.902% Matures 8/2018	44,520.81	44,121.73	399.08
CD #5 5yr @ 1.3% Matures 9/2020	40,685.38	40,160.16	525.22
CD # 6 5yr @ 1.45% Matures 9/2021	40,482.83	40,240.36	242.47
CD #7 3yr @ 0.8% Matures 9/2017	40,644.74	40,320.64	324.10
Checking	77,402.57	94,849.02	-17,446.45
Money Market 0.3%	83,135.28	82,885.60	249.68
RBC Account	111,461.93	112,167.75	-705.82
TOTAL Cash and Bank Accounts	483,121.23	498,998.85	-15,877.62



# ΝΧΩΣΣ Χομμιττεε ανδ Οφφιχερ Ρεπορτσ

## NCWSS Cash Flow

12/1/2015 through 11/30/2016

Category

2016		2015		
INFLOWS	11/30/2016	INFLOWS	11/30/2015	Change YTD
Annual Meeting Income	89,647.81	Annual Meeting Income	107,510.37	-17,862.56
Capital Gains	157.04	Capital Gains	88.03	69.01
Div Income	2,761.08	Div Income	3,211.48	-450.40
Interest Inc	2,537.15	Interest Inc	1,912.81	624.34
Renewals	1,770.00	Renewals	1,810.00	-40.00
Royalty On Proceedings	100	Royalty On Proceedings	240	-140.00
Security Value Change	-2,020.62	Security Value Change	-5,480.35	3,459.73
Sustaining Member Dues	26,500.00	Sustaining Member Dues	20,000.00	6,500.00
Weed Contest	-16,671.79	Weed Contest	-8,500.00	-8,171.79
Weeds Of Midwestern US & Canada		Weeds Of Midwestern US & Canada	1,163.11	-1,163.11
<b>TOTAL INFLOWS</b>	<b>104,780.67</b>	<b>TOTAL INFLOWS</b>	<b>121,955.45</b>	<b>-17,174.78</b>
<b>OUTFLOWS</b>	<b>11/30/2016</b>	<b>OUTFLOWS</b>	<b>11/30/2015</b>	
Annual Meeting Expense	68,596.04	Annual Meeting Expense	73,457.09	-4,861.05
Bank Charge		Bank Charge	3	-3.00
CAST Rep. Travel	567.95	CAST	2,500.00	-1,932.05
CAST Dues		CAST Dues	1,500.00	-1,500.00
Corporation Annual Fee	10	Corporation Annual Fee	10	0.00
Director Of Science Policy	7,779.06	Director Of Science Policy	7,779.06	0.00
Insurance	550	Insurance	1,204.52	-654.52
Invasives Symposium 2015	509.66			509.66
Management Fee	25,000.00	Management Fee	25,000.00	0.00
Merchant Account	1,213.21			1,213.21
RBC Fee	1,401.41	RBC Fee	1,426.66	-25.25
Student Awards	3,300.00	Stipend	2,250.00	1,050.00
Student Travel Award	3,000.00	Student Awards	3,700.00	-700.00
Supplies	44.92	Supplies	109.56	-64.64
Tax Preparation	750.3	Tax Preparation	766.36	-16.06
Travel For WSSA Rep.	1,281.38	Travel For WSSA Rep.	1,040.06	241.32
Travel To Annual Meeting	1,682.55	Travel To Annual Meeting	857.47	825.08
Travel To Summer Meeting	107.4	Travel To Summer Meeting	906.75	-799.35
UMISC Meeting Display	400			400.00
Web Master	4,000.00	Web Master	4,000.00	0.00
		Website Design	5,200.00	-5,200.00
<b>TOTAL OUTFLOWS</b>	<b>120,193.88</b>	<b>TOTAL OUTFLOWS</b>	<b>131,710.53</b>	<b>-11,516.65</b>
<b>OVERALL TOTAL</b>	<b>-15,413.21</b>		<b>-9,755.08</b>	

**Proceedings Editor**

**Greg Kruger**

**Date of Preparation: December 7, 2016**

**Proceedings Editor Activities during the Year:**

**Proceedings Editor Activities during the Year:** Proceedings from the 2015 meeting posted in January. Everything is set for this year. The abstracts will be due on Friday November 11<sup>th</sup>.

**Motions:**

**Communications Editor**

**Vince Davis**

**Date of Preparation:**

**Executive Secretary Report:**

**Motions**

## WSSA Representative Report

Reid Smeda

Date of Preparation: Dec. 9, 2016

### WSSA Representative Activities during the Year:

#### A. WSSA Executive Board for February 2016– February 2017

Board Membership	Name
Past-President	Dallas Peterson
President	Kevin Bradley
President-elect (Program chair)	Janis McFarland
Vice-President	Scott Senseman
Secretary	Hilary Sandler
Treasurer	Rick Boydston
Members-at-Large	Bryan Young, Andrew Kniss
Chair, Constitution and MOP	Mark Bernards
Director of Publications	Sarah Ward
Executive Secretary	Joyce Lancaster
Director of Science Policy	Lee Van Wychen
<a href="http://www.wssa.net">www.wssa.net</a>	

#### B. WSSA Summer Board Meeting

Attended WSSA summer board meeting July 12-13 in Phoenix, AZ.

#### C. Outcomes of the WSSA Summer Board Meeting and since that time

1. Registration rates for the WSSA meeting in 2017 were approved as follows: Early registration is \$400 for members and \$500 for non-members; late registration would be \$500 for members and \$600 for non-members; on-site registration would be \$600 for members and \$700 for non-members.
2. A change in the amount for the top tier for sustaining members was approved. Previously the top tier paid \$5,000; the new amount will now be \$6,000. A decline in the number of top tier sustaining members partially underlies the increase.
3. Interactive Management Incorporated (IMI) was unanimously selected to replace Joyce Lancaster as the Executive Secretary beginning in 2017.
4. Finance committee and board approved Annual WSSA membership dues: \$175 for regular members (no change); \$50 for student membership (no change); and \$175 for non-North America membership (reduction from \$250). The conversion from print to on-line for journals will save significant cost in shipping.
5. Establishment of both an oral and poster contest at WSSA meetings was approved. Sections of each contest will be established (6-11 posters per section) with awards (1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> place; \$300, \$200, and \$100, respectively) for each section.
6. All journals of the WSSA will be published by Cambridge University Press beginning in 2017. Projected royalty payments will be a minimum of 3.9-fold higher than that received in 2015 from Allen Press.
7. Thompson Reuters ISI journal impact factors for WSSA journals (2015) are as follows:  
Weed Science: 1.993 (increase from 1.87 in 2014)  
Weed Technology: 1.487 (increase from 1.058 in 2014)  
IPSM: 1.21 (increase from 0.964 in 2014)
8. The number of symposiums approved for the 2017 WSSA meeting in Phoenix has not been finalized, but the following symposia are approved: Understanding/reducing herbicide off-site movement; precision agriculture and weed science; and development of weed management plans.
9. Currently under consideration is cancelling publication of the WSSA Awards Banquet pamphlet. Many copies are discarded at the meeting and the cost was \$4,105 to print in 2015. Awards banquet information would be placed on the

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website and on the WSSA app.

10. WSSA is also going to move away from Allen Press managing our membership database/meeting platform. Bids are being considered from APEX and MemberClicks.

### **D. Future WSSA Meetings**

Feb 6-9, 2017 Tucson, AZ (Hilton El Conquistador)

2018: Arlington, VA (Crystal Gateway Marriott)

2019: New Orleans, LA (Sheraton)

2020: no location decided as of this report

## **CAST Report**

### **Lowell Sandell**

**Date of Preparation: Dec. 09, 2016**

#### **Officer/committee Activities during the Year:**

As a reminder, the objective of CAST is to communicate good science to the public and policy makers. If you have ideas for proposals, please communicate these ideas to the cast representative. There are three work groups within CAST; Plant Science, Animal Science, and Food Science. NCWSS rep's time is devoted to the Plant Science work group.

- Participated in the scheduled plant working group phone conferences.
  - o Aug. 25, 2016,
  - o Sept. 29, 2016
  - o Dec. 02, 2016

The annual CAST Board Meeting was held on Oct. 25-27 in St. Louis, MO.

- This year's representatives meeting was held in St. Louis with a tour of Monsanto's headquarters, and meetings held at the Danforth Plant Science Center.
- New proposals that have been approved include the following topics:
  - o Big Data in Agriculture
  - o The Role of the Soil Microbiome in Agriculture
- New initiatives CAST is focusing on to serve its members:
  - o Friday notes email service.
  - o Focusing on a more active approach to social media, particularly blogging, Facebook and Twitter. Please consider following or "liking" on these platforms.
- The new chair of the Plant Working Group for 2017 is Wendy Sronic from Pioneer/DuPont
- The 2017 Board and representatives meeting will be held in Raleigh, NC (Oct.25-27).
- At the meeting, representatives of the weed science societies decided to work with the CAST staff to showcase CAST through posters in the regional and national meeting's poster sessions for increased awareness.

2017 Membership and dues in CAST was completed by Phil Banks in the first part of Dec.

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The following is a complete list of CAST currently being written (<http://www.cast-science.org/publications/index.cfm?show=forthcoming>):

- ***The Need for Agricultural Innovation to Sustainably Feed the World by 2050*** (Issue Paper Series)  
[Ag Innovation Series Flow Chart](#)  
CAST's ambitious 12-paper project looks at specific programs, policies, and techniques that will advance global food security. Topics will include issues in animal agriculture, food science, and crops and soils. Led by teams of experts, the Ag Innovation series focuses on smart science and intelligent innovation—the dramatic changes needed to accelerate productivity in crop and animal systems while reducing negative impacts on the environment. CAST will present the work to policymakers, corporate leaders, government officials, NGOs, students, stakeholder groups, and the general public.
  - ***The Need for Agricultural Innovation to Sustainably Feed the World by 2050: An Introduction***(Issue Paper)  
Cochairs: Ronnie Green, University of Nebraska and Jay Akridge, Purdue University
  - ***Technologies on the Shelf—A Series Keynote Paper***  
(Issue Paper) Chair: Amit Dhingra, Washington State University.
  - ***Food Biofortification—Reaping the Benefits of Science to Overcome Hidden Hunger***  
(Issue Paper)
  - ***Crop Protection Contributions toward Agricultural Productivity***  
(Issue Paper) Chair: Susan Ratcliffe, University of Illinois.
  - ***Evolution of Genetic Intervention in Food Production***  
(Issue Paper)
  - ***Genome Editing in Agriculture—Methods, Applications, and Governance***  
(Issue Paper) Chair: Adam Bogdanove, Cornell University
  - ***Innovative Approaches toward Zero Waste in the Food Chain***
  - ***Irrigation and Precision Crop Management Technologies***  
(Issue Paper)
  - ***Plant Breeding and Genetics***  
(Issue Paper) Cochair: Stephen Baenziger, University of Nebraska-Lincoln and Rita Mumm, University of Illinois.
  - ***Precision Production Technologies in Animal Agriculture***  
(Issue Paper) Chair: Jeff Bewley, University of Kentucky
  - ***Protecting Food Animal Gene Pools for Future Generations***  
(Issue Paper) Chair: Julie Long, USDA-ARS.
- ***Antibiotic Use in Animal Agriculture: Impact on Animals, Consumers, and Antibiotic Resistance***  
(Issue Paper) Chair: Mike Apley, Kansas State University.
- ***GMO Free—The Impact on Consumers, Retailers, Farmers, and the Environment***
- ***Historic Drought, Aquifer Mining, and Potential Impacts on Long-term Irrigated Agricultural Productivity***  
(Issue Paper)
- ***The Impact of CAST—45 Years of Influence in Agriculture***  
(Issue Paper)
- ***Impact of Free-Range Poultry Production Systems on Animal Health, Human Health, Productivity, Environment, Food Safety, and Animal Welfare Issues***  
(Issue Paper) Cochair: Jacquie Jacob and Tony Pescatore, University of Kentucky.

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- *Interpreting Agricultural Chemical Residues Measured in Food or Milk*  
(Issue Paper)
  - *Omega-3 Fatty Acids: Health Benefits and Dietary Recommendations*  
(Special Publication) Chair: Don Beitz, Iowa State University.
  - *Potential Reductions of Nutrient Loss Impacts on Water Quality*  
(Issue Paper)
  - *Recruiting and Educating Graduate Students to Become Researchers and Leaders in Global Agricultural Studies* .  
(Issue Paper) Chair: Charles Rice, Kansas State University.
- Scientific, Ethical, and Economic Aspects of Farm Animal Well-being*  
(Task Force Report) Cochairs: Candace Croney and William Muir, Purdue University.
- *Scientific Evidence for the Risk and Benefits of Raw Milk*
  - *Social and Economic Impact of Misinformation in Agriculture*  
(Issue Paper)
  - *Why Does Bee Health Matter? The Science Surrounding Honey Bee Health Concerns and What We Can Do About It*  
(Commentary) Chair: Marla Spivak, University of Minnesota.

## Director of Science Policy Report

Lee Van Wychen

Date of Preparation: December 12, 2016

### Director of Science Policy Activities during the Year:

**All I Want for Christmas?** Less federal rules and regulations. It looks like Santa Claus might deliver. The last couple of years have been daunting for the sheer number of rules and regulations that have required comments from the weed science societies. In addition, lawsuits from environmental groups over endangered species act (ESA) assessments are grinding the FIFRA registration process to a halt. There is a massive effort going on behind the scenes right now to educate new leadership at EPA, Interior and Commerce on how to implement existing "FIFRA/ESA Counterpart Regulations" to fix this situation without the need for new regulations or statutes. They need to abandon wasteful interim approaches that EPA recently has tested for ESA analysis.

**Comments on EPA's Draft Guidance on Herbicide Resistance Management:** This summer EPA issued a Pesticide Registration Notice (PRN) that proposes an approach to address herbicide-resistant weeds by providing guidance on labeling, education, training, and stewardship for herbicides undergoing registration review or registration. The National and Regional Weed Science Societies recognize the critical need to protect all available weed management tools and are on record supporting proactive measures by EPA to combat the further evolution and spread of herbicide-resistant weeds. EPA's proposal represents a significant change in how resistance is monitored, mitigated and communicated to weed management stakeholders. We consider this proposal a first iteration that will need adaptation and evolution as our experience with it grows and we hope the Agency has those same expectations.

**Comments on Glyphosate Carcinogenicity:** WSSA fully supports EPA's Cancer Assessment Review Committee's (CARC) report on glyphosate (Docket ID: EPA-HQ-OPP-2016-0385-0014) and appreciates the scientific rigor and thoroughness of the CARC's review of all available epidemiology and carcinogenicity studies. WSSA agrees with the CARC's assessment that the few studies that the International Agency for Research on Cancer (IARC) selectively chose for its glyphosate review suffered from small sample sizes of cancer cases related to glyphosate exposure and had risk/odds ratios with large data variance beyond acceptable limits. Furthermore, WSSA feels that the IARC review process for glyphosate was flawed and represents a case of gross scientific negligence. There is no question that IARC arrived at their conclusion due to their inclusion of the positive findings from a selection of studies with known limitations, a lack of reproducible positive findings, and the omission of the negative findings from credible and reliable research. Finally, WSSA commented on the ongoing importance of glyphosate as a weed management tool and submitted information we developed surrounding some common misconceptions about glyphosate and herbicide resistance management.

**Comments on Triazine Draft Ecological Risk Assessment:** A number of concerns have been raised by various stakeholders relative to EPA's draft ecological risk assessment for the triazines. These concerns include: errors in endpoint data and the water monitoring database; use of models that are not validated with field data; estimates of inflated hypothetical risks (e.g.



atrazine applications resulting in 36% bird mortality) that have not been observed in over 55 years of atrazine use; use of data or findings not conducted in accordance with EPA's scientific guidelines required under FIFRA; and ignoring the advice and findings of previous Science Advisory Panels on atrazine. The WSSA stresses the importance of addressing these concerns in order to maintain stakeholder confidence in the Agency's science-based regulatory framework. However, our main concern, based on the current ecological draft risk assessment, is that atrazine and simazine would be restricted to less than 0.25 lbs a.i./A and 0.5 lbs a.i./A, respectively. At these low rates, atrazine and simazine would not provide efficacious weed control. In addition, using sub-lethal rates of atrazine or simazine is not an effective option for resistance management as it has been shown that this practice is likely to result in weeds with multiple-site or polygenic resistance which would make it more difficult to control these weeds.

### Extendimax with Vapor Grip Technology label:

- For use in 34 states on cotton and soybean (Same states as Enlist Duo), some county restrictions due to Endangered Species concerns like Spring Creek Bladderpod, a rare mustard species found only in Wilson County, Tennessee.
- 2 yr time-limited registration that expires on Nov. 9, 2018. **No Tank mixtures**, No application from aircraft, No application when wind speed is over 15 mph. Use only Tee Jet® TTI11004 nozzle with a maximum operating pressure of 63 psi or any other approved nozzle found at <http://www.xtendimaxapplicationrequirements.com/>
- 15 mph max ground speed, 24 inch max boom height above crop canopy. **Maintain 110 or 220 foot downwind buffer** when applying 22 or 44 fl oz/A, respectively. Do not apply this product during a temperature inversion.
- "AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR"

### Enlist Duo label (as amended):

- For use in 34 states on corn, cotton, and soybean (Same states as Extendimax), some county restrictions.
- 5 yr time-limited registration (beginning w/ final registration approval in 2017), **No Tank mixtures**, some adjuvants approved- see [www.EnlistTankmix.com](http://www.EnlistTankmix.com) ; No application from aircraft; No application when wind speed is over 15 mph; Nozzle Selection: See chart on label for 23 nozzles and pressures tentatively approved for Enlist Duo
- 15 mph max ground speed; Use the minimum boom height based upon the nozzle manufacturer's directions.
- Maintain a **30 foot downwind buffer**, Do not apply this product during a temperature inversion.

Comments on Tank Mix Prohibitions. The National and Regional Weed Science Societies are especially concerned about the proposed tank mix prohibitions on new registrations due to EPA uncertainty on synergism effects on non-target organisms. We have strongly urged EPA to reconsider this prohibition, as it is counterproductive for herbicide resistance management, will result in significant economic costs to growers, will increase the carbon-footprint associated with weed management, and could be, frankly, ignored by many practitioners. Mike Barrett, WSSA-EPA Liaison organized educational seminars at EPA by Bryan Young in June who talked about herbicide mixtures and by Greg Kruger in October who talked about droplet size and drift reduction technologies. There will be a full day symposium on these topics at the WSSA meeting in Tucson and many federal agency personnel will be in attendance.

**Problems with EPA Worker Protection Standards (WPS) final rule.** NASDA and the Assoc. of American Pesticide Control Officials (AAPCO) asked EPA to delay compliance of WPS revisions until Jan. 2, 2018. State lead agencies don't have the tools and financial resources necessary to effectively implement the rule changes (i.e. updated materials to train farm workers and especially to "Train-the-trainers"). EPA denied request. Most WPS revisions kick in on **Jan. 2, 2017**. New Application Exclusion Zone (AEZ) requirements don't kick in until Jan. 2, 2018 for pesticide handlers. AEZ is the 100 feet "halo" surrounding aerial, air blast, fumigant, smoke, mist and fog application equipment, as well as spray applications using very fine or fine droplet sizes (<294 microns). AEZ is 25 feet for medium droplet sizes or larger. See: <https://www.epa.gov/pesticide-worker-safety/revisions-worker-protection-standard>

**Paraquat Mitigation Measures**- We support paraquat-specific applicator training materials such as "One Sip Can Kill". We have concerns about "lock-and-load" only systems that would prohibit applications from hand-held equipment and have asked EPA to consider an exemption for weed research work with paraquat.

**Waters of the United States (WOTUS) rule:** On November 1, 2016, opening briefs to the 6th Circuit Court were filed by 31 states, plus various organizations and companies opposed to the expanded federal jurisdiction over streams and wetlands. The WOTUS rule, challengers argue in their briefs, undermines state authority. Challengers take particular issue with what they say is the federal government's disregard for whether a body of water is considered "navigable," which they say should be key in determining where it can regulate. The EPA and the Army Corps of Engineers have until Jan. 18 to file their response to the challengers in court. A 6th Circuit Court hearing is unlikely to occur before April 2017.

**NPDES "Fix" Legislation** - Will be introduced in the new Congress. This legislation has been passed by the House of Representatives in 2011, 2013, and 2016, but could not get a floor vote in the Senate. I'm saying there's a chance!

**Seven Regional Herbicide Resistance Listening Sessions:** Excellent work being done by WSSA Herbicide Resistance Education Committee, in particular David Shaw, Jill Schroeder, Mike Barrett, to organize these.

- Dec. 5, Starkville, MS. Darrin Dodds & Larry Steckel.
- Jan. 18. Lancaster, PA. Bill Curran, Mark VanGessel, Annie Klodd
- Jan. 24. Pasco, WA. Ian Burke & Don Morishita
- Feb. 15. Tulare, CA. Brad Hansen & Brian Schutte
- Feb. 17. Holyoke, CO. Phil Stahlman, Todd Gaines, Andrew Kniss & Sandra McDonald
- **Mar. 4. San Antonio, TX. Commodity Classic. (Midwest region). Christy Sprague & Jeff Gunsolus**
- April TBD. Southeast region. Ramon Leon & Stanley Culpepper.

I also want to commend the excellent work being done by NCWSS members for [www.TakeActiononWeeds.com](http://www.TakeActiononWeeds.com). They are very close to posting info for Auxin Best Management Practices (BMP's). WSSA Public Awareness Committee will trumpet those Auxin BMP's with a couple press releases this winter.

**FY 2017 Appropriations**- Congress passed a continuing resolution (CR) on Dec. 9, funding gov't at FY 2016 levels through April 28, 2017. There will be a big fight over discretionary

spending and its distribution between defense and non-defense programs. Most federal research dollars depend on non-defense discretionary funding.

**Foundation for Food and Agriculture Research (FFAR)** – opened the Rapid Outcomes from Agricultural Research (ROAR) program, making available up to \$150,000 to accelerate initial research and outreach response to combat new pest outbreaks by pre-establishing teams of experts, agreements, and funding sources. The \$150,000 is the maximum per one-year grant and requires matching funding. ROAR is structured around commodity consortia. To establish a consortium, interested groups are invited to self-organize or take advantage of pre-existing consortia of researchers, extension agents, institutions, commodity and industry representatives, diagnostic laboratories, and relevant state and local representatives. For more information, please visit: [www.foundationfar.org/ROAR/](http://www.foundationfar.org/ROAR/)

**Monarchs and Milkweed**: States need to continue to map and track milkweed distributions.

**National Invasive Species Awareness Week** (NISAW)- Feb. 27-Mar. 3, 2017. [www.nisaw.org](http://www.nisaw.org) Webinars and lunch briefings on invasive species topics as well as a Congressional Fair on March 1. The National Invasive Species Council (NISC) released 3<sup>rd</sup> invasive species management plan this summer. Last week Obama issued an Executive Order (EO) that makes some amendments to the original invasive species EO issued in 1999. See: <https://www.whitehouse.gov/the-press-office/2016/12/05/executive-order-safeguarding-nation-impacts-invasive-species> .

**Invasive Species Issues Farm Bill Task Force Team**. Working with a group of about 20 invasive species management stakeholders to draft language for the 2019 Farm Bill. Here are a few examples:

- Adding weed treatment area designations under Healthy Forest Restoration Act
- Promoting Areawide IPM language and funding through USDA NIFA
- Prevent NRCS program participants from planting “invasive plant species” on “reserve” lands
- Pilot projects for landscape-scale testing of grazing as a tool for rangeland invasive species control
- Add “invasive species” to the Foundation of Food and Agricultural Research’s list of national priorities

### **2016 National Weed Survey in Broadleaf Crops**

For 2016, weed scientists completed about 200 surveys for the most common and most troublesome weeds in 12 broadleaf crops, which included 5 categories of fruit and vegetable crops. The dataset is available at: [http://wssa.net/wp-content/uploads/2016\\_Weed\\_Survey\\_Final.xlsx](http://wssa.net/wp-content/uploads/2016_Weed_Survey_Final.xlsx) **Nationwide-** the **three most common** weeds in broadleaf crops were *Chenopodium album*, *Setaria spp.* and *Ipomoea spp.*. The **three most troublesome** (difficult to control, but not necessarily widespread) weeds in broadleaf crops were *Amaranthus palmeri*, *Chenopodium album* and *Conyza canadensis*. **Top 10 in NCWSS region:**

<b><u>listed</u></b>	<b><u>Most Common</u></b>	<b><u># times</u></b>		
	Setaria spp.	53		
	Chenopodium album	51		
			Amaranthus tuberculatus	35
			Amaranthus retroflexus	32
			Abutilon theophrasti	28
			Conyza canadensis	28

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Ambrosia artemisiifolia	26
Kochia scoparia	17
Amaranthus palmeri	15
Ambrosia trifida	15

### **Most Troublesome # times listed**

Amaranthus tuberculatus	45
Chenopodium album	44
Conyza canadensis	36
Ambrosia trifida	30
Amaranthus palmeri	27
Ambrosia artemisiifolia	25
Kochia scoparia	22
Solanum spp.	21
Abutilon theophrasti	14
Amaranthus retroflexus	14

## Strategic Planning

**Dawn Refsell**

**Date of Preparation: December 12, 2016**

### Officer/committee Activities during the Year:

Aided with development of symposia (technology update)

Assisted Greg with Guidebook app

Continue to assess opportunity for CCA credits. Committee planning on soliciting feedback from membership during meeting.

Filled open positions on SPC

First	Last	State	Term expires	Phone	E-mail
Central Region					
Mike	Weber	IA	2017		michael.weber3@bayer.com
Mark	Bernards	IL	2017	309-298-1569	ML-Bernards@wiu.edu
Dave	Ruen	MN	2017	507-259-7095	DCRUEN@dow.com
Andy	Kendig	MO	2017	636-751-0242	Andy.Kendig@adama.com
Tim	Trower*	WI	2016	608-393-9371	Tim.Trower@syngenta.com

#### Eastern Region

Kelly	Barnett	IN	2018		Kelly.A.Barnett@dupont.com
Rod	Stevenson	MI	2016		rod.stevenson@monsanto.com
John	Smith	OH	2016		jpsmith@landolakes.com
Nader	Soltani	ON	2017		soltanin@uoguelph.ca
Mark	Waddington	KY	2016	618-334-6789	mark.waddington@bayer.com

#### Western Region

Phil	Westra	CO/WY	2018		Philip.Westra@ColoState.edu
Mithila	Jugulam	KS	2016	785-532-2755	mithila@ksu.edu
Tom	Peters	ND	2017	701-231-8131	thomas.j.peters@ndsu.edu
Brady	Kappler*	NE	2016	402-432-1469	brady.kappler@basf.com
Trevor	Israel	SD	2018	605-679-0297	trevor.israel@valent.com

#### Chairpersons

Dawn	Refsell***	MO	2017	816-206-3919	dawn.refsell@valent.com
Bruce	Ackley**	OH	2017	740-225-2014	ackley.19@osu.edu

\*Regional Director

\*\* Vice Chair

\*\*\* Chair

## **Extension Report**

**Amit Jhala**

**Date of Preparation: 12/4/2016**

### **Officer/committee Activities during the Year:**

The extension section of the 2016 NCWSS meeting will be now a symposium “Public and Communication Issues”. It will be on Wednesday from 8 am to 11.30 am. Seven presentations from academia and industry will present important public and communication issues.

This is the first year NCWSS has introduced student video contest. We received a total of seven videos; 4 in Education and 3 in Research category. A team of judges (Curtis Thompson, Kelly Nelson, and Aaron Hager) provided score sheets and ranking of the participants. Result of the contest is submitted to the president.

A draft of the rules for the NCWSS Student Video Contest is prepared.

## Industry Report

**Paul Marquardt**

**Date of Preparation: 7 December 2016**

### Officer/committee Activities during the Year:

#### 2016 Sustaining Membership Drive.

19 September: initial communication to 30 industry members (Phil Banks supplied list of membership)

15 November: second communication sent thanking those that had contributed and a reminder for those that had not

15 November: initial communication with sustaining members concerning presenting in “What’s New in Industry”

Present status:

2017 Sustaining members = 22

2016 Sustaining members = 22

2015 Sustaining members = 18

#### Sustaining Membership Overview and Review of Benefits.

2013: \$28,750 (\$12,750 Sustaining dues; \$8000 to weed contest; \$8000 society mixer)

2014: \$28,350 (\$20,350 Sustaining dues; \$0.00 no weed contest expenses; \$8000 society mixer)

<<Implementation of ‘tiered membership’ scheme>>

2015: \$26,500 Sustaining dues. No other solicitations.

2016: \$30,500 Sustaining dues (including promises to pay). No other solicitations.

2017: \$27,500 Sustaining dues (including promises to pay). No other solicitations.

#### Sustaining Member Benefit Tier:

<b>Sponsorship Level</b>	<b>Annual Contribution</b>	<b>Sponsorship Benefits</b>
Gold	\$3,000 +	<ul style="list-style-type: none"><li>• Complimentary registration for the official representative at the annual meeting</li><li>• Recognition of the company as a GOLD sponsor at the annual meeting</li><li>• Invitation to the “What’s New in Industry” session</li><li>• Acknowledgement of support in most publications</li><li>• Table/display space in poster session room</li></ul>
Silver	\$1,500	<ul style="list-style-type: none"><li>• Complimentary registration for the official representative at the annual meeting</li><li>• Recognition of the company as a SILVER sponsor at the annual meeting</li><li>• Invitation to the “What’s New in Industry” session</li><li>• Acknowledgement of support in most publications</li><li>• Table/display space in poster session room</li></ul>
Bronze	\$500	<ul style="list-style-type: none"><li>• Complimentary registration for the official representative at the annual meeting</li><li>• Recognition of the company as a BRONZE sponsor at the annual meeting</li><li>• Invitation to the “What’s New in Industry” session</li><li>• Acknowledgement of support in most publications</li><li>• Table/display space in poster session room</li></ul>

#### ‘What’s new in Industry’ session.

12 of 22 sustaining members will participate

#### Industry breakfast speaker.

Rod Williamson, Director of Research and Development for the Iowa Corn Growers Association. The Des Moines Waterworks Lawsuit.

#### New Technology Presentation Session.

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Travis Legleiter and Greg Dahl organized this session.

9 presentations with 9 of the “new” companies as either current sustaining members or new sustaining members.

For discussion:

- Complimentary (Industry sponsored/paid) registration for students to attend the Industry Breakfast?

**Motions:** None



## **Resident Education Report**

**Mark Bernards**

**Date of Preparation: December 3, 2016**

### **Officer/committee Activities during the Year:**

Purdue University hosted a well-attended and organized Summer Collegiate Weed Science Contest.

Paper contests: There are over 40 entries for the Oral Paper Contest, over 40 entries for the Poster Paper contest, and 13 entries for the Undergraduate Student Contest for the 2016 annual meeting. This has necessitated 60 judges.

A Survey on weeds to include in a master weed list for coaches to teach from and contest organizers to select contest weeds from was sent to coaches and resident education committee members. Ten individuals responded. The composite ranking from these responses may be found in the attached document.

The WSSA has implemented poster and paper contests, effective 2016. The evaluation criteria for the WSSA contest differ some from the NCWSS evaluation criteria. The WSSA prepared a much more detailed rubrics than has been used by the NCWSS. The NCWSS criteria have not been revisited for many years and the rubrics used are quite general.

Over the past few years there have been discussions among coaches and contest judges about aspects of the NCWSS Summer Collegiate Weed Contest events. Some specific observations have included:

- The need for a master teaching list for weed species and for herbicides from which contest organizers would be able to select species and active ingredients. This would enable coaches to develop more comprehensive training materials and be engaged in coaching well in advance of when the contest rules for a contest are posted in the spring.
- The written calibration test has sometimes been too long for the time allowed, and some of the problems have been unrealistically complicated. Median scores for both undergraduates and graduate students have been less than 40% (sometimes far less).
- The written problem portion of the team sprayer calibration has sometimes been too complicated for the amount of time allowed. When teams are unable to correctly solve the problem it is impossible to correctly complete the remainder of the event.
- Some have questioned the 10 minute time allotment for sprayer calibration. For example, there have been multiple scenarios where teams would have had higher scores by calling time when they started and getting the 50 points for time and not even bothered with the calibration. The most important part of this event should be accurate calibration and application. The Weed Olympics rules allowed 45 minutes for calibration and application evaluation, and did not include a time penalty.
- A few years ago the Unknown Herbicides event scoring was modified such that undergraduate students were evaluated on their ability to identify herbicide mechanism of action, with tie-breaker being correct active ingredient identification. This is not reflected in the M.O.P.

- Aspects of the Problem Solving event are unrealistic. Students show up with no idea of what the scenario is, and are provided no reference materials during the event. In a real world scenario, the person responding to the call will often have an idea of some of what has happened in the field and will review appropriate labels before arriving, or will have some sort of tablet computer on which they can reference a label. Current herbicide labels are so long and detailed that it is impractical to expect students to know all the intricacies of an unspecified number of products.

### Motions:

Attached are proposed revisions to the Paper, Poster and Summer Contests. These have not been voted upon by the Resident Education Committee, but will be discussed at its committee meeting prior to the Wednesday Board of Directors meeting.

The Board of Directors is being asked to review it prior to the Resident Education Committee meeting so they can provide any concerns/recommendations regarding the proposal. If the revisions are acceptable, and the Resident Education votes to approve them, it is hoped that the Board of Directors would vote on the changes at the Wednesday evening meeting.

Highlights of the proposed revisions:

- 1) Paper and poster evaluation criteria have been revised to be similar to the criteria used for the WSSA contests and described in the WSSA rubrics.
- 2) New rubrics reflecting the revised criteria are included for each contest.
- 3) MOP language regarding rules between the paper and poster contests have been revised to be more consistent with each other.

The Summer Contest Rules have been revised as follows:

- 4) Purpose statement: Statement that contest events should be challenging but not discouraging.
- 5) Weed Identification: Reference to a master weed list. Language regarding scoring spelling errors of weed names
- 6) Sprayer Calibration: Change “Sprayer Calibration” to “Herbicide Application”
- 7) Written Test: Rename written test “Written Test on Herbicide Application.” Provides suggestions on what topics may be included in the questions. Requires the host to have the written test reviewed by members of the contest subcommittee to certify it is reasonable in length and difficulty.
- 8) Team Sprayer Calibration: Adjusting scoring for team sprayer calibration to focus more on sprayer output and correct application (height, speed, spray pattern). Increased the variation in nozzle output to 4% (that way it is always an even number of mL to measure). Extend the time allowed for calibration to 30 minutes, and to score speed as a bonus instead of a penalty. Requires the written problem to be reviewed by members of the contest subcommittee to certify it is reasonable in length and difficulty.
- 9) Reference to a NCWSS master herbicide list. Greater detail on herbicide information to be provided in rules (to match what is being done). Reference to current Herbicide Handbook as source of approved names and spellings. Language regarding spelling errors of herbicide and chemical family names.
- 10) Problem Solving and Recommendation. Recommendation that students be given background

information, such as labels, to use during the field call.

- 11) MOP language/information in the sections has been re-ordered and divided into paragraphs in hopes that it would be easier to follow and that there would be more consistency between event sections.

**Graduate Student Report**

**Doug Spaunhorst**

**Date of Preparation:** November 27, 2016

**Officer/committee Activities during the Year:**

Attended 2016 WSSA in San Juan, Puerto Rico.

Organized the written calibration section for the 2016 NCWSS summer weed contest.

With assistance from Dave Johnson and his team at DuPont Pioneer, I helped coordinated a graduate student tour of DuPont Pioneer's facility in Johnston, IA. The event will take place on December 12<sup>th</sup>. Current enrollment is 64 graduate students and professionals.

Assisted Pam Cannady and Eric Scherder with the organization of the 2016 NCWSS graduate student luncheon that will take place on December 13<sup>th</sup>.

**Motions: None**

## NXΩΣΣ Χομμιττεε ανδ Οφφιχερ Ρεπορτσ

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**Office or Committee Name:** Future Site Selection

**Officer or Chairperson Name:** Charles H. Slack

**Date of Preparation:** 12/05/16

**Officer/committee Activities during the Year:**

The committee looked at the Hyatt Regency and Sheraton in Columbus. The Hyatt Regency offered the best proposal. The committee recommends the Hyatt Regency in Columbus, OH for 2019. Room rates will be \$139 single, \$139 double, \$164 triple and \$189 quad. per night. Rebate will be 5%, Food and Beverage Minimum \$10,000. Undergraduate Scholarship will include 3 comp. nights with breakfast plus the plaque for the winner. The meeting dates will be 12/9 Monday–12/12 Thursday 2019.

**Budget needs:** None

**Suggestions for future:** None

**Current Committee members:** John Hinz, Dave Simpson, Sara Carter, Kirk Howatt, Mark Loux, Eric Spandl, Charles Slack