

## **2011 WSSA Committee Progress Report January 4, 2012**

**Committee Code and Name:** W20 - Sustainable Agriculture Committee

**Committee Co-Chairs:** Marty Williams (NC) and Andrew Skibo (NE)

### **Committee Members, 2011:**

<b>Name</b>	<b>Email</b>	<b>Institution</b>	<b>Region</b>	<b>Term</b>
Peter Dotray	p-dotray@tamu.edu	Texas A&M Univ.	S	2012
Marty Williams	mmwillms@illinois.edu	USDA-ARS	NC	2013
John Cardina	cardina.2@osu.edu	Ohio State Univ.	NC	2013
Steve Mirsky	Steven.Mirsky@ars.usda.gov	USDA-ARS	NE	2013
Ed Peachey	peachey@hort.oregonstate.edu	Oregon State Univ.	W	2014
Jeff Ellis	JMellis2@dow.com	Dow	NC	2014
Joan Campbell	JCAMPBEL@uidaho.edu	Univ. of Idaho	W	2014
Prashant Ja	pjha@montana.edu	Montana State. Univ.	W	2014
Carroll Johnson	Carroll.Johnson@ARS.USDA.GOV	USDA-ARS	NE	2014
Joe Colosi	Joseph.Colosi@desales.edu	DeSales Univ.	NE	2014
Andrew Skibo	Andrew.Skibo@fmc.com	FMC	NE	2014
Erin Haramoto	haramoto@msu.edu	Michigan State Univ.	NC	2014
Lynn Brandenberger	lynn.brandenberger@okstate.edu	Oklahoma State Univ.	S	2014
Bruce Maxwell	bmax@montana.edu	Montana State. Univ.	W	2014
Carroll Johnson	Carroll.Johnson@ars.usda.gov	USDA-ARS	S	2015

**Board Coordinator:** Anita Dille

### **Committee Members Rotating Off:**

Peter Dotray

### **Suggested Replacements:**

Carroll Johnson has agreed to represent SWSS

### **2011 Summary of Activities (through January 2012)**

- What are the committee's goals for 2012?

Our most recent goal was to increase participation in the committee. Attendance at the 2010 meeting was 2, and we increased attendance to 12 at the 2011 meeting. Membership now reflects WSSA guidelines with 12 regular members from all regions, as well as co-chairs, with one from industry and one from academia.

One goal for 2012 will be leading a symposium on nonchemical weed management in reduced tillage systems at the annual meeting.

- List the committee's accomplishments (through January 2012):

The committee discussed several symposium ideas and settled on pursuing the topic of nonchemical weed management in reduced tillage systems. Dan Brainard led grant proposal

writing to USDA-NIFA and WSSA. The proposal to WSSA was successful. The program in February is:

SYMPOSIUM Non-Chemical Weed Management in Reduced Tillage Systems

LOCATION: Kings 1 & 2 TIME: 7:55 AM – 12:00 PM

CHAIR: Daniel Brainard, Michigan State University, East Lansing, MI

\*SPEAKER

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7:55 Introduction

8:00 Overcoming Weed Management Challenges in Cover Crop-Based, Organic Rotational No-Till Corn and Soybean in the Mid-Atlantic Region. S. B. Mirsky\*<sup>1</sup>, C. Reberg-Horton<sup>2</sup>, W. Curran<sup>3</sup>, M. R. Ryan<sup>3</sup>, J. R. Teasdale<sup>1</sup>, S. M. Wells<sup>2</sup>; <sup>1</sup>USDA-ARS, Beltsville, MD, <sup>2</sup>North Carolina State University, Raleigh, NC, <sup>3</sup>The Pennsylvania State University, University Park, PA (180) **DISCUSSANT: A. LEGERE**

8:30 Extreme Cropping Systems: When Herbicide-Free Weed Management Meets Conservation Tillage in Northern Climates. A. Legere\*<sup>1</sup>, A. Vanasse<sup>2</sup>, S. Shirliffe<sup>3</sup>; <sup>1</sup>Agriculture and Agri-Food Canada, Saskatoon, SK, <sup>2</sup>Université Laval, Québec, QC, <sup>3</sup>University of Saskatchewan, Saskatoon, SK (181) **DISCUSSANT: S. MIRSKY (+available co-authors)**

9:00 Cover crop use for weed management in Southern reduced-tillage vegetable cropping systems. J. K. Norsworthy\*<sup>1</sup>, A. Price<sup>2</sup>; <sup>1</sup>University of Arkansas, Fayetteville, AR, <sup>2</sup>USDA-ARS, Auburn, AL (182) **DISCUSSANTS: D. BRAINARD, E PEACHY, E HARAMOTO**

9:30 Weed Ecology and Management Under Strip-Tillage: Experiences from Northern U.S. Vegetable Cropping Systems. D. C. Brainard\*<sup>1</sup>, E. Haramoto<sup>1</sup>, A. Rangarajan<sup>2</sup>, J. Luna<sup>3</sup>, E. Peachey<sup>3</sup>; <sup>1</sup>Michigan State University, East Lansing, MI, <sup>2</sup>Cornell University, Ithaca, NY, <sup>3</sup>Oregon State University, Corvallis, OR (183) **DISCUSSANT: J. NORSWORTHY**

10:00 Break

10:15 European Perspectives on the Adoption of Non-Chemical Weed Management in Reduced Tillage Systems for Arable Crops. B. Melander\*<sup>1</sup>, N. Munier-Jolain<sup>2</sup>, J. Schwarz<sup>3</sup>, R. Charles<sup>4</sup>, J. Wirth<sup>4</sup>, R. van der Weide<sup>5</sup>, P. Kryger Jensen<sup>1</sup>, P. Nielsen Kudsk<sup>1</sup>; <sup>1</sup>Aarhus University, Research Center Flakkebjerg, Slagelse, Denmark, <sup>2</sup>INRA, Dijon Cedex, France, <sup>3</sup>Julius Kühn-Institute (JKI), Kleinmachnow, Germany, <sup>4</sup>Station de recherche Agroscope Changins-Wädenswil ACW, Nyon, Switzerland, <sup>5</sup>Applied Plant Research, Lelystad, Netherlands (184) **DISCUSSANT: M. WILLIAMS**

10:45 Ecological Weed Management in Conservation-Till Rice-Wheat Cropping Systems of the Indo-Gangetic Plains. V. Kumar\*<sup>1</sup>, S. Singh<sup>2</sup>, R. S. Chhokar<sup>3</sup>, R. Malik<sup>4</sup>, J. K. Ladha<sup>1</sup>; <sup>1</sup>International Rice Research Institute, New Delhi, India, <sup>2</sup>Regional Research Station, CCS Haryana Agricultural University, Karnal, Karnal, India, <sup>3</sup>Directorate of Wheat Research (DWR), Karnal, Karnal, India, <sup>4</sup>IRRI/ CIMMYT, NASC Complex, Pusa, New Delhi, New Delhi, India (185) **DISCUSSANTS: B. MELANDER and A. DAVIS**

11:15 Weed Competition and Conservation Agriculture for Smallholders: Insights from Maize Systems in the Hills of

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Nepal. T. Karki<sup>1</sup>, A. McDonald<sup>2</sup>, A. S. Davis\*<sup>3</sup>; <sup>1</sup>Tribhuvan University, Rampur, Nepal, <sup>2</sup>CIMMYT, Kathmandu, Nepal, <sup>3</sup>USDA-ARS, Urbana, IL (186) **DISCUSSANT: V. KUMAR**

11:45 Summary and Discussion

- What information was posted on the WSSA website?  
The date and time of the symposium is posted on the WSSA website.
- Were funds requested for 2011? How much was spent?  
Funds requested in 2011 were \$4,894, for the symposium. Since these funds will be used to cover speaker travel expenses and publication costs, no funds have been spent as of January 3, 2012.
- What was the impact of the committee activities/accomplishments on the following: membership, publication, policy, legislation, and/or education?  
Membership – as mentioned earlier, we now have membership on the committee that reflects WSSA guidelines (MOP).  
Publication – the 2012 Symposium papers will be published.
- What is the current state of the committee's projects and activities?  
The immediate project is delivering an excellent symposium in Hawaii. Several additional symposium topics have been proposed and discussed for future meetings, including:
  - Climate change on weed species population dynamics (e.g. carbon sequestration, CO2 enrichment, etc.)
  - Integrated weed management, with an emphasis on non-synthetic chemical approaches to weed management
  - Weed management in the developing world (e.g. in resource-limited situations)
  - Economics and profitability of weed management systems
  - Societal realities of weed management decision making
  - Herbicide resistance
  - Environmental fate of specific compounds

### **2012 Plan for Committee Activities**

- Other Goals for 2012:  
To be determined.
- Plan of Action:

### **Recommendations for Board/Society Action:**

- Funds requested for 2012:  
To be determined.
- Other requests for the Board:  
Mike Barrett asked that we consider merging W20 with W17 – Integrated Weed Management. The committee discussed the matter over email. We noted some overlap between the charges of both committees, particularly as it relates to awareness/education of IWM and sustainable agriculture, and a forum for scientific exchange on the topics. The consensus in the committee was that merging W20 and W17 made sense. There was a question about how membership of the two committees would be combined, and if restructuring of members and chairs would occur. The co-chairs are of the understanding

that there is not a maximum limit on membership, so that everyone still interested in the new and combined committee would remain on board. As far as co-chairs, Williams is willing to step down in the combined committee, should that be necessary. Andrew Skibo would be willing to step down as well if another industry representative felt he or she was better able to serve the joint committee.