



# Canadian Weed Science Society

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## Soci t  canadienne de malherbologie

Newsletter

Summer 2015

### Message from the President Eric Johnson

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Our appreciation to  
the following com-  
panies for their  
support:

**BASF Canada**  
**Bayer CropScience**  
**Dow AgroSciences**  
**Canada Inc.**  
**DuPont Canada**  
**Monsanto Canada**  
**Syngenta Canada**  
**Inc.**  
**FMC**  
**Nufarm**  
**NovaSource**  
**(Tessenderlo**  
**Group)**  
**AgQuest**  
**Arysta LifeScience**  
**Valent**

Greetings CWSS-SCM members! I hope your spring and summer has gone well and that you've had or will have some time off during the busy growing season. Many parts of Saskatchewan have been dry this year with rain being as scarce as Roughrider wins (It's not that funny, actually). The lack of precipitation and warm temperatures have resulted in some harvesting of peas and lentils this past week so we are about 3 weeks ahead of normal.

The CWSS-SCM Board of Directors

have been busy over the past few months. One of our main accomplishments has been signing a Memorandum of Understanding with the Agriculture Institute of Canada (AIC) and Canadian Science Publishing (CSP) to facilitate the sale of the Canadian Journal of Plant Science from AIC to CSP. I want to thank Brian Beres and the Canadian Society of Agronomy for taking the lead on this initiative and providing the other societies with legal guidance and advice. The Canadian Socie-

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**President's Message continued**

ty of Animal Science and the Canadian Soil Science Society have also signed MOs that will facilitate the sale of the Canadian Journal of Animal Science and the Canadian Journal of Soil Science to CSP. If the sales proceeds, there will be a number of benefits to our Society that will be outlined at the upcoming Annual Meeting.

Speaking of the upcoming Annual Meeting, start making plans for November 23-26 in Edmonton. Registration is now open on the CWSS-SCM website. Rory Degenhardt and his LAC have put together an excellent program that includes a joint session with the Alberta Invasive Species Council. While you are registering and making plans to travel to Edmonton, take some time to nominate a worthy member for one of the CWSS-SCM Awards. There are a number of deserving people out there and we could always use more nominations for all awards, but in particular the CWSS-SCM Outstanding Industry Member, and the CWSS-SCM Meritorious Service Award.

Have you looked at the new website yet? Not only are there aesthetic improvements, but the new website allows Anita to update information without having to go through the website design company, which was required with the previous website. This will save time and money, and provide members with much more timely information. Thanks to the Communications Committee for the fine job they did in completing this task.

Well, you will hear from me one more time before the Annual Meeting. At that time, I expect to be bragging about the Riders 9-7 record (you just got to believe!). Have a good harvest and I look forward to seeing you in late November.

- Eric Johnson [en.johnson@usask.ca](mailto:en.johnson@usask.ca).

**The 2015 November CWSS-SCM Annual Meeting will be held at the Westin in Edmonton, Alberta, from November 23 to 27, 2015**

## JOIN OUR SOCIETY

If you have not paid your membership dues for 2015, you can now do so online. If you attended our Montreal meeting, your fees for 2015 were included in the meeting fees. If you weren't able to attend you can become a member or renew your membership by the online link: <http://www.regonline.ca/canadianweedsciencemembership> .

Regular: (Educators, extension agents, government employees, growers, commercialization agents, regulators, researchers) - \$100

Student in an International University: - \$50

Retired: (Any person who has been a member of CWSS-SCM and has retired) - \$0

Student in a Canadian University with signature of supervisor: - \$0, please send in a copy of the registration form signed by your supervisor. Send in a copy of [our membership form](#).

## CWSS-SCM 2015 Edmonton Photo Contest

Start collecting photos for the Edmonton Photo Contest. The objective of our photo contest is to encourage CWSS-SCM members to hone their photographic skills and to make excellent weed and weed management images available for use by CWSS-SCM members and in CWSS-SCM publications.

The three best photos submitted in each of three categories will be recognized. The winning photos will be selected by a panel of judges selected by the Photo Contest Co-ordinator. For more information on submission of Photo Contest entries, see the Photo Contest section of the Annual Meeting notice on the CWSS-SCM webpage.

The photo categories for 2015 (for the Edmonton meeting—2015 November) will be

- Category 1: Agriculture and Forestry: Individual botanical subject is not the prime theme of the image. For example, production (seeding, spraying, cutting...) or general views (landscape)
- Category 2: Weeds: Pictures of plants (patches, whole individual or parts) considered as weeds. Images should demonstrate morphological characteristics and/or weed invasion/competition. For example, dandelion seeds transported by wind, vetch on evergreen, soybean field with common ragweed...
- Category 3: Research in action: Pictures of research activity whether it be in the lab, or in the field. For example, canola breeding greenhouse, plot seeding, hand spraying...

DEADLINE—September 30, 2015: Send photos to [assistant@cwss-scm.ca](mailto:assistant@cwss-scm.ca) or upload them to the meeting registration site. (The latter will be ready when fees and program are finalized.)

Prizes: 1st - \$100, 2nd - \$50, 3rd - \$25 in each of three categories. There will also be a People's Choice Award.

## 2015 Annual Meeting in Edmonton



### PLENARY SESSION - PRELIMINARY AGENDA - Tuesday, November 24, 2015 THEME: NEXT

Time	Topic	Speaker	Affiliation
8:00 - 8:05	Introduction	<a href="#">Linda Hall</a> and <a href="#">Rob Nurse</a>	University of Alberta Agriculture and Agri-Food Canada
8:05 – 8:10	Brief retrospective	<a href="#">Hugh Beckie</a>	Agriculture and Agri-Food Canada
8:15 – 9:15	RNAi – Opportunities for resistant weed control	<a href="#">Doug Sammons</a>	Monsanto
9:15 – 10:15	Down the Rabbit Hole: Molecular Weed Science - Where It Could Take Us	<a href="#">Todd Gaines</a>	Colorado State University
10:15 – 11:00	Remote sensing of weeds: information for site specific control	<a href="#">Kevin Price</a>	Executive Vice President, Applied Research and Technology Development RoboFlight Systems, Inc.
11:00 – 12:00	Next Gen Herbicides : Natural Products	<a href="#">Franck Dayan</a>	ARS USDA

## 2015 Annual Meeting in Edmonton Plenary Session—Tuesday, November 24, 2015



### Doug Sammons - RNAi – Opportunities for resistant weed control

Dr. Doug Sammons obtained his PhD from Ohio State University in 1982 and completed a National Institutes of Health postdoctoral fellowship at Penn State University with Dr. Stephen Benkovic before joining Monsanto in 1984. Starting in the Herbicide Discovery Program his work focused on the molecular mechanism of glyphosate inhibition of the target enzyme EPSPS. Dr. Sammons studied methods to control corn rootworm while leading the insecticidal protein discovery team and he completed the required characterization studies for the Cry1Ac Bt toxin for the registration of Bollgard® cotton. Dr. Sammons studied glyphosate herbicide physiology using Roundup Ready® soybean to elucidate the major barriers to glyphosate delivery and efficacy. His studies on Roundup Ready® soybean determined that sufficient glyphosate in soybean was metabolized to aminomethylphosphonate to induce Yellowflash. Dr. Sammons' studies on glyphosate physiology supported the WeatherMax™ launch and he has been involved in training field sales teams and distributors on the best use of glyphosate. In the past 27 years Doug has worked on several major commercial products and is now a Senior Fellow in the Chemistry Unit leading a discovery research team focusing on the mechanisms and management of glyphosate resistant weeds.



### Todd Gaines - Down the Rabbit Hole: Molecular Weed Science - Where It Could Take Us

Todd Gaines is an assistant professor at Colorado State University in molecular weed science. He completed his PhD at CSU, followed by post-docs in Western Australia and Germany. His research goal is to support sustainable weed management that helps contribute to sustainable cropping systems, including identifying the molecular and genetic basis of complex herbicide resistance mechanisms; utilizing next-generation sequencing to study complex traits in weeds; and developing molecular markers for rapid resistance diagnostics.

## 2015 Annual Meeting in Edmonton



### **Kevin Price - Remote sensing of weeds: information for site specific control**

Kevin Price grew up working on a farm/ranch in the very rural area of Green River, Utah. He is currently a Professor with joint appointments in the Departments of Agronomy and Geography at Kansas State University (KSU). His Ph.D. is in Geography with specialty in remote sensing/GIS and his Master's and Bachelor's are in Range Science. He is an author of over 200 publications. He has multiple publications on remote sensing of crop and grasslands of Inner Mongolia, China; environmental impacts of coffee plantations on rainforests of El Salvador; and studied cropping, deforestation and modeling of dark earth soil distributions in the Amazonian region of Brazil,

but the bulk of his work on the crop and grasslands of the Central Great Plains.

Kevin is receiving much national and international attention for his work on the use of remote sensing of crop and grasslands using small unmanned aircraft systems (SUAS), with specific focus on crop stressors such as disease, insects, weeds and inadequate nutrients.

### **Franck E. Dayan (ARS USDA) - Next Gen Herbicides : Natural Products**



Franck Dayan is a Research Plant Physiologist at the Natural Products Utilization Research Unit of USDA, ARS. His work focuses on the mechanisms of action of natural and synthetic herbicides. Franck was born in France and came to the USA as an exchange student. He obtained his B.S. (1988) and M.S. (1992) in Botany from Stephen F. Austin State University in Texas. He then received his Ph.D. in Plant Physiology from Auburn University in Alabama in 1995.

He is currently serving as treasurer for the International Weed Science Society. He has served as treasurer of the Phytochemical Society of North America from 2006 to 2011 and assumed the presidency of that society in August 2014 and is now Past-President. He is a Regional Editor for the Allelopathy Journal and an Associate Editor for Weed Science and Pesticide Biochemistry

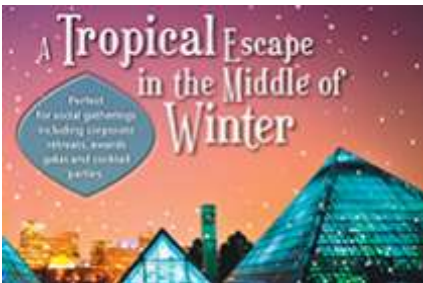
and Physiology.

Franck has published 172 publications that include 114 peer-reviewed scientific articles and 48 book chapters and reviews in scientific journals. Dr. Dayan's authorship has a google h-index of 46, which reflects his sustained research productivity and significant impact on the research of other scientists (at least 6317 citations as of July 2015). He has been invited to numerous national and international conferences and symposia.

## 2015 Annual Meeting in Edmonton

### Join Us at The Westin Edmonton in Edmonton, Alberta

This year's annual meeting is packed with exciting speakers and honoured guests. Delivering and debating the latest developments in weed science and control. The venue is situated in the heart of downtown Edmonton and connected to the Shaw Conference Centre. The Westin Edmonton hotel offers large and comfortable meeting space, including downtown Edmonton's largest hotel ballroom..



### Pre-conference tour

Come a little earlier and take in the Pre-conference tour - Muttart Conservatory and Yellowhead Brewery for \$30 on Monday, November 23, 2015 from 1 to 5 PM.

### Wednesday's schedule differs from other years with the banquet in the evening and meeting with AISC members

7:00 am - 12:00 pm Registration (AISC 1 day attendees)

7:00 am - 8:00 am Breakfast & Poster Viewing – Authors present

8:00 am - 9:50 am CWSS/AISC Joint Plenary II

9:50 am - 10:10 am Break

10:10 am - 11:30 am CWSS/AISC Joint Plenary II

11:30 am - 12:30 pm Lunch

12:30 pm - 3:00 pm Provincial Reports

12:30 pm - 3:00 pm Corn, Soybean and Edible Beans

3:00 pm - 3:15 pm Break

3:15 pm - 5:15 pm Forage, rangeland, forestry and IVM

3:15 pm - 5:15 pm Weed Biology and Invasive Weeds

5:30 pm - 6:00 pm AISC Debrief and Research Priorities

**69<sup>th</sup> Annual Meeting / 69<sup>e</sup> Réunion annuelle**  
**November 23<sup>rd</sup> to 27<sup>th</sup>, 2015 / 23 au 27 novembre 2015**  
**The Westin / Edmonton, Alberta**

**[Click here to Register Now](#)**

Or go to <http://weedscience.ca/> for more information

## 2014 Montreal CWSS-SCM Photo Contest Winners

Agricultural  
and  
Forestry



1<sup>st</sup> Place - Pride by Shaun Campbell



2<sup>nd</sup> Place – Quiet creek and forest by Chris Budd

Weeds



1<sup>st</sup> Place – Wild Oats in Love by Eric Johnson



3<sup>rd</sup> Place - Follow the Leader  
by Andrea DeRoo



2<sup>nd</sup> Place - Morphological Variation of  
*Galium spurium* by Andrea DeRoo



## 2014 Montreal CWSS-SCM Photo Contest Winners continued



Weeds 3<sup>rd</sup> Place – Night shade dessication<sup>3</sup>  
by Jean-Francois Foley

Research  
in Action



1<sup>st</sup> Place – Fleabane ghosts  
by Marie-Josée Simard

2<sup>nd</sup> Place –  
Precision by  
Shaun Camp-  
bell



## People's Choice Award



The future  
by Shaun Campbell



3<sup>rd</sup> Place - Combining the wheat  
by Holly Byker

## **OAC Weeds Team 2015 wins at U.S National Weed Contest**



### **OAC Weeds Team 2015.**

**Back Row (left to right):** Josh Burrows, Stephen Boersma, Jacob Nederend, Dylan Magnus, Justin McNally, Alex Vanhie, Alex Sanders, Brett Hilker, Zhenyi Li, Matthew Rundle

**Second Row (left to right):** Darren Robinson, Chris Budd, Charlotte MacKay, Kendra Thurston, Lauren Benoit, Kaylene Sangers, Amelia Judge, Joanna Burrows, Hanna Petrovsky, Clarence Swanton

**Front row (left to right):** Michael Schryver, Jordan Eyamie, Laura Buys, Allison Taziar, Ken MacKenzie

## OAC continued

On Tuesday July 21<sup>st</sup>, 2015, the University of Guelph OAC Weeds Team participated in the National Weed Science Contest hosted at The Ohio State University Research Farm located in South Charleston, Ohio. This was a national contest with 25 Universities participating from throughout the United States. A total of 63 teams participated, involving 200 students representing the North Central Weed Science Society, Northeastern Weed Science Society, Southern Weed Science Society, and the Western Society of Weed Science. Two graduate and four undergraduate teams from OAC competed in the competition. The purpose of this contest was to provide students with an educational experience that tests their applied agronomic skills in the disciplines of crop protection and agronomy

Awards were first distributed for team and individual performances within each regional society. Within the Northeastern Weed Science Society the University of Guelph, undergraduate teams placed first and second and our graduate team placed third.. The first place team consisted of Alex Vanhie, Jacob Nederend, Stephen Boersma and Joshua Burrows. The second place team consisted of Dylan Magnus, Justin McNally, Johanna Burrows and Lauren Benoit. The graduate team consisted of Chris Budd, Jordan Eyamie, Allison Taziar and Mike Schryver. Top over all individual undergraduate performance awards were given to Stephen Boersma, Lauren Benoit and Johanna Burrows who placed first, second and third respectively. The remaining students from the undergraduate and graduate teams competed well and placed competitively within their categories.

National Awards were then distributed to the top undergraduate and graduate teams overall. The University of Guelph undergraduate teams placed second and third. Team members that received national recognition in second place included Alex Vanhie, Jacob Nederend, Stephen Boersma and Joshua Burrows. The third place team consisted of Dylan Magnus, Justin McNally, Johanna Burrows and Lauren Benoit. Stephen Boersma placed second in the ranking for top undergraduate student at the competition. These national awards recognized their outstanding performance in weed science and agronomy.

The OAC Weed Team was coached by Clarence Swanton and Darren Robinson. Special thanks to Peter Smith, Mike Cowbrough, Eric Lyons, Francois Tardif, and Robert Moloney for their contributions to the success of the 2015 OAC Weeds Team. The financial support of Syngenta Canada Inc., Monsanto Canada, Valent Canada Inc., Bayer Crop-Science , BASF, FMC Corporation, E.I. DuPont, Nufarm Agriculture Inc., Dow AgroSciences, Grain Farmers of Ontario and the Ontario Weed Committee is gratefully acknowledged.

## NAISMA/ISCMV Conference Registration Reminder

This is a reminder that for **registration** for the 2015 North American Invasive Species Management Association Conference being held in Vancouver October 19-22. The ISCMV will be helping to host the conference and will not be having its own fall forum so that you can attend this not-to-miss event!

We are very excited about the agenda which includes Dr. Sam Chan from Oregon State University talking about unexpected vectors and Dr. Len Ritter, noted Toxicologist from the University of Guelph, who will be providing us with updated information regarding glyphosate. A major topic of interest in our region! Land managers from across North America will be joining us and this conference will provide you with a great opportunity for networking and learning from others.

On the 22nd, there will be a full day Summit on BioControl held by CABI. This is a great opportunity to hear what is being researched in biocontrol and what may be on its way for use!

Please register and see the complete agenda on NAISMA's website at [www.naisma.org](http://www.naisma.org)

# AIC 2015 - Conference Report & Policy

## Ag Institute Outlines Steps to Advance Canada's Agriculture and Contribute Globally

Today, the Agricultural Institute of Canada (AIC) is releasing a far-reaching [agricultural research policy](#) that will have impact for all stakeholders involved in agriculture and related sectors.

"If Canada is to regain its leadership in agricultural research, this is a good first step," said Serge Buy, CEO of AIC. "The concrete steps outlined in this policy can pave the way for the future."

This research policy comes following a lengthy consultation process that included working with members and stakeholders and a comprehensive conference that brought together governments, scientists, academics, producer groups and representatives from other organizations.

The policy recommends, among other things, to:

- Set national goals in agricultural research
- Better consult all stakeholders when establishing research priorities
- Recognize Canada's global responsibilities
- Enhance processes to transfer knowledge from research to end-users
- Have stable and predictable financial support for both fundamental and applied research

The policy has concrete recommendations that can be implemented.

AIC will continue to consult stakeholders in order to allow this policy to evolve over time. It will also, on an annual basis, develop a checklist on what recommendations have or have not been implemented.

The final policy is available in both [English](#) and [French](#) on the AIC website, [www.aic.ca](http://www.aic.ca).

### **CONFERENCE REPORT**

#### **AIC 2015: Leading Innovation and Sustainability**

Over two days conference participants worked together to answer key questions in three thematic areas:

1. Balancing Pure and Applied Research
2. Interdisciplinary Partnerships, Collaboration, and Cooperation
3. Issues in Public-Private Partnerships

The conference report summarizes the ideas and insights shared in the workshop discussions that contributed to the development of the draft policy.

*-information from an email from Agricultural Institute of Canada <bschrempf@aic.ca>  
dated September 3 and 10, 2015*

# Knowledge Nexus



## Knowledge Nexus

Applying transdisciplinary and systems approaches for sustainable weed management

Alberta, Canada, 6-10 June 2016

*A refreshing and dynamic international workshop*

- ✓ Are you enthusiastic about learning from, and working with, people from other disciplines?
- ✓ Are you looking for an opportunity to apply your expertise in a new context?
- ✓ Would you like the chance to explore how social science, agricultural and natural systems can come together to work more effectively?

*Then this is the workshop for you!*

We are looking for researchers and managers from a broad range of disciplines and systems to join our next international weeds workshop.

Our ambitious goal is to make holistic weed management a reality through transdisciplinarity!

How are we going to make this happen?

- Bring together a diverse group of enthusiastic researchers and managers with expertise from within and beyond weed and invasive plant management
- Use a unique format that throws away the sleep-inducing atmosphere of traditional conference venues and programs – there will be no one-way presentations of research results!
- Provide plenty of time and avenues for deep debate within and across disciplines
- Focus on a complex weed case study in southern Alberta, which we will visit
- Build on the lessons learned from the first two highly successful “ANDinA” workshops
- Give everyone a specific role to play in ensuring the meeting’s success
- Enable emerging researchers to take leading roles
- Make time for project conceptualisation, paper and grant preparation
- Daily walking in the fresh mountain air

Questions we will consider...

- How can we simultaneously address the ecological, agronomic, socio-economic and political dimensions of weed and invasive plant management?
- How can we successfully engage with societal stakeholders to better understand complex weed issues and how to solve them?
- How can we achieve truly transdisciplinary disciplinary research?
- Will a transdisciplinary approach provide us with different outcomes to what we have now?

Interested in knowing more?

- ✓ *Apply now!* <http://andinaalberta.weebly.com/participation.html>
- ✓ *Join our mailing list or follow @ANDinAAAlberta* to get updates about the workshop
- ✓ *Have your say on the program* (email [sonia.graham@unsw.edu.au](mailto:sonia.graham@unsw.edu.au))
- ✓ *Visit the website* for more information (<http://andinaalberta.weebly.com>)

# Bulletin Table of Contents for ENTOMOLOGICAL SOCIETY OF CANADA

As part of a sharing information with other societies, here is the table of contents for the Bulletin of the Entomological Society of Canada

## BULLETIN OF THE ENTOMOLOGICAL SOCIETY OF CANADA



## BULLETIN DE LA SOCIÉTÉ D'ENTOMOLOGIE DU CANADA

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## Call for Nominations for 2016 CWSS-SCM Board of Directors

This is the call for nominations for two positions on the 2016 CWSS-SCM Board of Directors. As is the case every year, we need a new Second Vice-President. This person takes on the role of the Second VP in the first year, the First VP in the second year, President in the third year and Past-President in the fourth year.

Also the position will be open for Member-at-Large West. The Members-at-Large serve as Co-Chairs and Board Representatives of the Resolutions Committee. The Members-at-Large serve on the Nominations and Elections Committee and provide regional viewpoints to the Board of Directors. He/she recommend future meeting sites to the Board, recruit Local Arrangements Chair and suggest members for the Local Arrangements Committee. The Members-at-Large may fill in on committees when the substantive committee members are unable to meet their responsibilities. The term is three years.

Please indicate your interest or nominate someone for these positions. Nominations should go to the Chair of the Nominations Committee:

Hugh Beckie , Research Scientist – Herbicide-Resistant Plants  
Agriculture and Agri-Food Canada  
107 Science Place  
Saskatoon SK S7N 0X2  
tel: (306) 385-9350

[hugh.beckie@agr.gc.ca](mailto:hugh.beckie@agr.gc.ca)

## Upcoming Meetings

October 19-22 , 2015	NAISMA/ISCMV Conference (North American Invasive Species Management Association)
November 8-11, 2015	Joint Annual Meeting of the Entomological Society of Canada and the Entomological Society of Quebec (Entomology in the Anthropocene) - Montreal, Quebec, <a href="http://seq.qc.ca/activites/reunions/SEQ-ESC_2015/index2.asp">http://seq.qc.ca/activites/reunions/SEQ-ESC_2015/index2.asp</a>
November 23-27, 2015	CWSS-SCM Annual Meeting at The Westin in Edmonton, Alberta
December 7-10, 2015	The NORTH CENTRAL WEED SCIENCE SOCIETY meeting will be held in Indianapolis, IN, at the Hyatt Regency Hotel
February 8 – 11, 2016	Weed Science Society of America Annual Meeting, San Juan, Puerto Rico
June 19-25, 2016	7th International Weed Science Congress will be held at Clarion Congress Hotel Prague, Prague, CZECH REPUBLIC
November 22-24, 2016	CWSS-SCM Annual Meeting at Delta Beausejour in Moncton, NB
February 2017	Weed Science Society of America Annual Meeting, Tucson, Arizona

## CWSS-SCM Facebook and Twitter

Remember to regularly check out our CWSS-SCM social media tools for the membership. We hope these tools will help our membership connect and help distribute information on weed science throughout the year. The hyperlinks are listed below and the links are also posted on our main website, [www.weedscience.ca](http://www.weedscience.ca). Please follow, like and tweet about these tools! [CWSS-SCM Facebook Page](#) , [CWSS-SCM Graduate Students Page](#) (Login to Facebook required) and [CWSS-SCM Twitter](#) . We post timely information on abstract submissions, job postings and other information on these sites.

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## Articles for Newsletter

Articles, photos, letters and news items for the newsletters can be emailed to [assistant@cwss-scm.ca](mailto:assistant@cwss-scm.ca) at any time. The deadline for the next submissions for the newsletters will be September 30, 2015.

## 2015 CWSS-SCM Board of Directors

President .....	Eric Johnson	Research Representative .....	Chris Willenborg
Past President.....	Hugh Beckie	CropLife Canada Representative (West).....	Joe McNulty
1st Vice-President .....	Jeff Bertholet	CropLife Canada Representative (East).....	Greg Wilson
2nd Vice-President.....	Linda Hall	Provincial Extension Representative.....	Chris Neeser
Treasurer.....	Frances Boddy	Member-At-Large (East).....	Meghan Moran
Secretary.....	Don Hare	Member-At-Large (West).....	Ken Sapsford
Regulatory Representative .....	Michael Downs	<u>Graduate Student Representative</u> .....	<u>Katherine Stanley</u>
Regulatory Representative .....	Wendy Asbil	Local Arrangements (2015).....	Rory Degenhardt
Publications Director .....	Rob Nurse	Executive Assistant to the Board.....	Anita Drabky