



PRESIDENT'S MESSAGE

Dear Members:

Another successful CSSS meeting has come and gone as we head into harvest season and more soil sampling. I am happy to report that the CSSS meeting in Guelph, with the CSA and CSAMF, was a success with strong student attendance. On behalf of the executive and the Society I would like to extend our gratitude to the organizing committee at the University of Guelph for being great hosts. We were able to support a contingent of 12 graduate students to attend the meeting through travel awards and the overall quality of student presentations was exceptional.

A number of important items were brought forward at this year's AGM and I would like to report some of these to the membership in this newsletter. Our membership numbers are down slightly again this year to 340 (357 in 2008 and 364 in 2007) with students making up 31%. The executive decided this year to host a student reception in order to promote the Society and enhance student participation. A motion was passed to allocate some funding in order to continue this event in subsequent meetings. In Saskatoon (2010), we are hoping to have a special session dedicated to providing graduate students with an opportunity to discuss ways they can become active and engaged members of the Society.

The new website format was unveiled at this year's AGM and full implementation is expected shortly. The website will be more interactive and dynamic providing members with a closer link to activities both within and outside of the Society. The Soils of Canada website has been fully implemented and will require participation from everyone to ensure its growth and long-term sustainability. The Society hopes to move forward with other initiatives in the near future related to updating the Soil Classification System of Canada and further promotion of Soil Science programs at the high school and undergraduate level. Additional activities, such as a recent proposal to NSERC's PromoScience Program by Dr. Krzic at UBC, will provide learning opportunities for high school students and a mechanism to promote graduate student participation within the Society focused on educational activities related to Soil Science.

A request was made prior to the AGM for the CSSS to investigate becoming a member of the Canadian Societies for the Geophysical Sciences (CSGS). Membership in the CSGS will allow the CSSS to act in concert with other member societies in areas of common interest relating to earth science issues, without replacing our functions as individual societies. Discussion with the membership was positive and the executive will move forward in examining the details of this process. Our upcoming meeting in 2010 will be held on June 20 to 24th in Saskatoon and further details will be announced shortly. In 2011, the CSSS has agreed to join our sister society the Soil Science Society of America in San Antonio and the planning process is currently underway. We encourage everyone to contribute their ideas and suggestions on possible themes and special sessions for both the 2010 and 2011 meetings.

At the AGM, a decision was made to re-establish the finance sub-committee in order to provide the Society with some guidance on the appropriate investment strategies to pursue moving into the future. The recommendations from the sub-committee will be presented in this newsletter. We also have exciting news to report with respect to increasing both access and visibility of the Canadian Journal of Soil Science which will be reported in this newsletter.

I will be reaching the end of my term as President in a few months and would like to thank the executive for their support. It has been a pleasure providing this service to the Society and I look forward to continue in other capacities in the future.

Regards,

Gordon W. Price



CSSS Council

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Canadian Society of Soil Science Treasurers' Report

September 2009

Paul Bullock

Finance Subcommittee

At the AGM in Guelph, a Finance subcommittee was struck to recommend an investment strategy for the CSSS Trust Fund currently administered through CIBC Wood Gundy. The committee consisted of Paul Bullock (Treasurer and subcommittee chair), Cynthia Grant (president-elect), Mel Webber and Don Flaten (members at large). The subcommittee received information concerning asset allocation from CIBC Wood Gundy and used this as a basis for deriving an investment strategy for the CSSS Trust Fund. After some deliberation, the committee reached a consensus on the Investment Strategy, which is provided below. CSSS Council has now reviewed this document and agreed that it should be shared with the membership.

I express my sincere appreciation to the members of the Finance subcommittee for their time and input. Investment of the CSSS Trust Fund is a significant issue for the society. Hopefully it provides CSSS members with some comfort to know that this group of their colleagues have given this issue serious consideration.

I also invite members of CSSS to provide me with comments about the investment strategy below. Some members have expressed a desire to see the Trust Fund focus on ethical funds. The investment strategy is currently side-stepping this issue by recommending the use of broad-based index funds. Basically, this strategy would provide returns similar to the overall equity market, such as the TSX Composite index in Canada and avoids the larger management expense ratios charged by other specialty funds. This strategy is being proposed as a means to provide the Trust Fund with exposure to equities in a broad fashion at low cost. The finance committee has decided that stable, long-term growth of the Trust Fund should be the main priority of the investment strategy. However, there may be other opinions, and I certainly welcome any constructive feedback that members can offer.

Canadian Society of Soil Science Trust Fund Investment Strategy

September 2009

Finance subcommittee: Paul Bullock (chair), Cynthia Grant, Mel Webber, Don Flaten

Background:

The CSSS is a non-profit organization with a small annual operating budget supported mainly by membership fees. The society's purpose is to promote soil science within the research community and to society in general. A significant part of this goal focuses on encouraging undergraduate and graduate students to participate in the annual AGM and conference. The Trust funds were intended to provide income to support student travel grants, awards for presentations and posters as well as book prizes. The average value for these has been \$8,654 per year for the period 2006 through 2009.

	2006	2007	2008	2009
Travel Awards	\$6,000	\$6,000	\$6,000	\$6,000
Bentley Speaking Awards	\$1,000	\$1,000	\$1,200	\$1,000
Presidents Poster Awards	\$1,000	\$1,000	\$1,000	\$1,000
Undergraduate Book Prizes	\$176	\$785	\$478	\$870
Judges Gifts				\$105
Total	\$8,176	\$8,785	\$8,678	\$8,975
Average	\$8,654			

The Trust Fund receives investment income as well as royalties from publications. The income, therefore, can fluctuate significantly from year to year. The royalty and CNH Trust income from 2006 through 2008 is shown below. In some years, book royalties can completely cover the costs above. However, 2008 is an unusual year because the release of the new methods book prompted higher sales.

	2006	2007	2008
Publication Royalties and CNH Trust	\$2,753	\$5,814	\$9,447

The June 30, 2009 statement from CIBC Wood Gundy for the Trust account contained the following summary.

Cash and cash equivalents	\$13,237	4.4%
Fixed Income	\$231,326	77.1%
Equities	\$0	0%
<u>Mutual/segregated funds</u>	<u>\$55,662</u>	<u>18.5%</u>
Total	\$300,226	

Therefore, an investment return of 2.9% on Trust Fund investments would cover the average expenses for the fund without considering the revenues from publication royalties. However, in order for the Trust Fund to remain viable over the long term, it must also grow at approximately the same rate as inflation. Currently inflation targets in Canada are in the 1% to 3% range but fears of higher rates are being expressed as a result of the recent large increase in the money supply. An inflation factor of 2% is a necessity but may be inadequate over the next five years. Based on the above, it is recommended that the Trust Fund investment strategy strive to achieve a return of 5%. This would cover costs and inflation from investment income alone. Any additional income from royalties would provide some buffer against potential higher rates of inflation.

Asset Allocation Considerations:

The Long Term Strategic Asset Allocation advice contained in the CIBC Wood Gundy Investment Management Services 2009 summary, would suggest that the CSSS Investor Profile fits somewhere between that of "Capital Preservation" (long-term return objective of 4.1%) and "Income" (long-term return objective of 5.8%). This is very much on the conservative end of the investment spectrum with recommended targets of 15% to 30% in equities and 60% to 65% in bonds. This profile is very similar to the current asset allocation of the Trust Fund.

Investing is a trade-off between risk and return. Higher risk investments mean greater volatility. A 7% target falls into the Income & Growth category in the investment guide from CIBC Wood Gundy. The probability of negative annual return in a one-year period for this category was calculated historically as 15.49% or about 1 year in 6. The 5% target rate of return falls between the Capital Preservation and Income categories, so the risk of a one-year negative return is approximately 6% or about 1 year in 16. The other consideration is that the amount of damage that occurs during a negative return period is more severe with a higher risk portfolio. The worst annual return for the Income & Growth category is -21.59%. In that circumstance, our \$300,000 Trust Fund would shrink to \$235,000 in one year. The middle ground for worst year between the Capital Preservation and Income categories is about -11%. In that case, the damage to a \$300,000 portfolio would reduce it to \$267,000. The CSSS has limited ability to absorb the increased risk and volatility associated with targeting a higher average rate of return. In years where Trust Fund income does not meet expenses, there is limited capacity within the annual budget to absorb increased costs that should be covered by the Trust Fund. In other words the downside risks outweigh the value of a potentially higher rate of return.

Recommendations:

It is recommended that the Trust Fund should continue to maintain at least 60% of its assets in fixed income but to increase that amount in situations where a return of 5% or more can be achieved with these types of investments. Approximately 5% to 10% cash equivalents will provide sufficient liquidity to cover 2 to 3 years of costs to the fund. The remainder should be targeted to equities. It is further recommended that equities be shifted towards exchange-traded funds with low management costs to improve the rate of return.

AWARDS 2009

Dr. Art Bomke



Dr. Art Bomke (University of British Columbia) received the CSSS Soil Science for Society Award from Dr. Cynthia Grant (CSSS President Elect) at meet-

Dr. Art Bomke, an Associate Professor at the University of British Columbia (UBC), is a soil scientist who uses his considerable knowledge to conduct research and carry out activities that directly contribute to sustainable agricultural practices in British Columbia (BC). For more than three decades, Art has been an inspiration to generations of students and a very active member of the soil science and agricultural communities nationally and particularly in BC. With each generation of new undergraduate and graduate students, Art quietly goes the distance, walking the walk that profoundly transforms and connects the university with people, neighbourhoods, community gardens, wildlife corridors, agricultural areas, gatherings of professional growers, and primary and secondary school classrooms throughout BC. For example, Art has worked tirelessly with farmers in Delta, BC through the Delta Farmers Institute and the Delta Farmland and Wildlife Trust to bring agricultural production, sustainable practices, and wildlife integration together. He has worked with organic producers in the Similkameen on nutrient and soil testing issues. In every case, Art contributes warmth, optimism, and his positive, long-term vision for stewardship of land and community.

Art's vision and dedication has been instrumental in the re-invention of the UBC Farm. From the earliest discussions on how to re-vitalize the South Campus field facilities in the late 1990s to the successes of the current day, Art has taken the lead in integrating student learning into this working farm system. Currently serving as the Chair of the Farm's advisory committee, Art provided ongoing administrative and advisory support to the Farm, and acted as an advocate for the Farm with students, faculty members, and community members alike. Art was among the first faculty members at the UBC to recognize the importance of this site for the benefit of the wider community and with every new on-farm initiative that a student takes an interest in, Art continues to make the connections to the community.

Art is also very active with the BC Institute of Agrologists. He is respected, admired as a professional, and known as a person who cares about agriculture and does everything in his power to help farmers and professionals tackle the complex issues facing today's agriculture and the environment. During his career, Art spent substantial time and energy serving on numerous advisory committees of provincial and national agricultural and environmental organizations such as Delta Farmland and Wildlife Trust, Vancouver Metro, Agricultural Institute of Canada, BC Nutrient Management Working group (with the BC Ministry of Agriculture, Food and Fisheries), Certified Organic Associations of BC, Canadian Expert Committee on Organic Agriculture, Agronomic Growth Industries, Ltd.

Dr. Art Bomke epitomizes an example of what a dedicated teacher and scientist should be and how one should unselfishly help others not just in academic setting but also in local communities. His career is a true testament of making contribution towards promoting soil science to the public.

Dr. Don Flaten



Dr. Don Flaten, a professor in the Department of Soil Science at the University of Manitoba, has been awarded the CSSS Soil Science for Society Award. Dr. Flaten received his Bachelor of Science in Agriculture from the University of Saskatchewan in 1978 and his Ph.D. in Soil Fertility from the University of Manitoba in 1989. He has worked as a district agriculturalist in Alberta and as a provincial soils specialist in Saskatchewan. From 1987 to 1999 he was Director of the School of Agriculture at the University of Manitoba, as well as Associate Dean Academic in the Faculty of Agricultural and Food Sciences.

Don has unselfishly promoted soil science in Canada throughout his career as an extension specialist, a teacher, a researcher and an administrator. He has also been a key member of the CSSS, serving as

Dr. Don Flaten (University of Manitoba) received the CSSS Soil Science for Society Award from Dr. Cynthia Grant (CSSS President Elect) at meeting in Guelph (August 2009).

treasurer for a long period. His outreach activities are legendary. This involves a broad mix of involvement with individual farmers, producer groups, provincial organizations, and multi-stakeholder groups. It is almost impossible to track his efforts in outreach because he is typically involved with external activities several times per week! Some examples include being a member of the Government of Manitoba Phosphorus Expert Committee, the Manitoba Rural Adaptation Council, the Manitoba Soil Fertility Advisory Committee, and the Lake Winnipeg Stewardship Board. In these committees, he has volunteered countless hours of his time providing valued technical expertise. His ability to communicate scientific aspects to make contributions to the agricultural industry and environmental protection is widely recognized.

Don has been active in outreach seminars to a range of agricultural audiences throughout Manitoba, presenting dozens of talks over the past few years. He has been featured in many articles and interviews, and was highlighted in a special issue of the Western Producer as one of the “Fascinating Innovators Who Shaped Prairie Agriculture”. Routinely, he is invited to present soil science workshops to elementary and high school students.

Don has made major contributions to understanding the role of soil impacts on water quality and is a champion of the development and promotion of beneficial management practices to reduce nutrient loading to water bodies. He is an advocate of our discipline, and his message to policy-makers has been consistent: we need good direct evidence of the net effect of management practices to develop policy. Don is a great example of how soil scientists can contribute to society.

Dr. Jean Caron



Dr. Jean Caron (University of Laval) received the CSSS Soil Science for Society Award from Dr. Cynthia Grant (CSSS President Elect) at meeting in Guelph (August 2009). Dr. David Elrick introduced Dr. Caron.

Professor Jean Caron has become well known both nationally and internationally for his innovative work on organic substrates (“potting soils”) as growing media. His work has focused (1) on identifying the key aeration processes in growing media (2) on deriving norms to guide substrate manufacturing and (3) on implementing methods for measuring these properties. The methodology he has developed is in current use by growing media manufacturers and is the basis of research for about 50% of the North American production.

He is actively involved with the peat industry as a consultant as well as an entrepreneur. Professor Caron is the inventor of the Aquamat system for greenhouse and nursery production. The theoretical development of water distribution systems has led to a commercial system [capillary mats known commercially as Aquamat and Hydroswitch]. It is the first irrigation system for plant nurseries that not only saves water but which increases the net benefits (profits) relative to overhead irrigation. Professor Caron's theoretical developments have also been the cornerstone of the early scientific developments of Hortau, a start-up company involved in the manufacture of tensiometers for irrigation management. The use of this equipment has led to yield

increases of about 5% in greenhouse tomatoes, thus generating large and important increases in net profits for this industry. The use of Hortau's technology has also led to water savings of 50% to 85% in cranberry production. He is the inventor or co-inventor of 12 patents. Hortau and its founders, Jean Caron and Jocelyn Boudreau, have been awarded several prizes for innovation, among them the Pierre Peladeau Award in 2004. In 2007, Jean Caron was awarded the prestigious J.A. Bombardier Award for early career innovation.

While it is important to acknowledge Professor Caron's many accomplishments, it is equally important to understand the person behind these accomplishments. He is an extremely enthusiastic and knowledgeable individual. He is an excellent teacher and mentor to his students. When working on research problems he is not satisfied until he completely understands the basic mechanisms that underlie the problem. He treats everyone with respect and consequently keeps all members of his team well informed, involved and motivated. Most of all, it is a wonderful experience to work with him, to see a creative mind tackling challenging problems, and having fun at the same time.

STUDENT AWARDS

C.F. Bentley for Oral Presentation

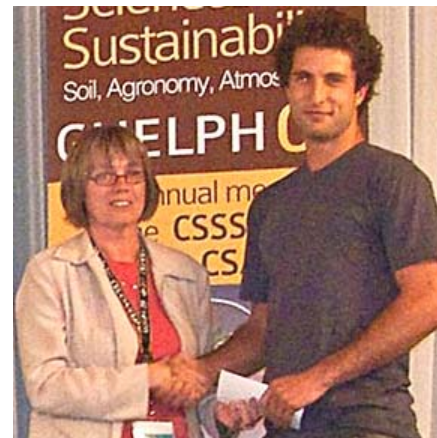
This Award was initiated in 1983 to encourage and recognize excellence in oral presentations by students at the CSSS Annual Meetings. It honours Dr. Fred Bentley who was CSSS President in 1956-57 and inducted as a CSSS Fellow in 1973. The Award winner receives \$500, the first runner-up \$300, and the second runner-up \$200.



1st Place: **Adam Gillespie** (University of Saskatchewan) received the 1st place Bentley Award for the best student oral presentation from Dr. Cynthia Grant (CSSS President Elect) at meeting in Guelph (August 2009).



2nd Place: **Michael Preston** (Trent University) received the 2nd place Bentley Award for the best student oral presentation from Dr. Cynthia Grant (CSSS President Elect) at meeting in Guelph (August 2009).



3rd Place: **Dan Harris** (University of Victoria) received the 3rd place Bentley Award for the best student oral presentation from Dr. Cynthia Grant (CSSS President Elect) at meeting in Guelph (August 2009).

Presidents Award for Poster Presentation

This award was established in 1992 to foster excellence in student poster presentations as a means of disseminating research results at the CSSS Annual Meetings. The President's Award is: \$500 for the winner, \$300 for the first runner-up and \$200 for the second runner-up.



1st Place: **XiangLan Li** (Chinese Academy of Science) received the 1st place Bentley Award for the best student poster presentation from Dr. Cynthia Grant (CSSS President Elect) at meeting in Guelph (August 2009).



2nd Place: **Enio Tarso de Souza Costa** (Federal University of Lavras, Brazil) received the 2nd place President's Award for the best student poster presentation. Dr. Bev Hale received the award on behalf of Enio from Dr. Cynthia Grant (CSSS President Elect) at meeting in Guelph (August 2009).



3rd Place: **Aime Jean Messiga** (Laval University) received the 3rd place President's Award for the best student poster presentation from Dr. Cynthia Grant (CSSS President Elect) at meeting in Guelph (August 2009).

Review of the 2009 Canadian Society of Soil Science Annual Conference

Dan Harrison

The 2009 Canadian Society of Soil Science (CSSS) annual conference was held this past August at the University of Guelph in Guelph, Ontario. The conference, which was held jointly with the Canadian Society of Agronomy (CSA) and the Canadian Society of Agricultural and Forest Meteorology (CSAFM), put forth the challenging and appropriate theme “Sciences for Sustainability”.

The plenary speakers began the event by highlighting the major environmental and societal challenges of our time while and discussing how meteorological, soil and agricultural research fit into the many interpretations of sustainability we were attempting to explore throughout the week. Representing the soils community, Dr. Dan Pennock (University of Saskatchewan) gave a thoughtful overview of the mounting population and energy pressures that will redefine our plant production systems in the immediate future. By providing a snapshot of the world of 2050—a global population of 9.5 billion coupled with 50-75% increases in food and energy demand—Dr. Pennock highlighted the urgency of the current situation which will undoubtedly stretch plant production systems far beyond existing practices. The opening plenary revealed not only the diversity of scientific pursuits necessary to realize a sustainable future, but also reaffirmed the importance of what we do as soil scientists and how our passion for our work is inextricably tied to building a sustainable society.

The oral and poster presentations following the plenary session featured the research of dozens of student and professional scientists from across the country. The breadth of research exposed during the poster and oral presentations was enormous. Specific topics included: rangeland and forest soils, carbon modeling, N₂O management, mycorrhizae dynamics, green manures, hydrology, nutrient cycling, pedology, tar sands reclamation and conservation tillage, to name a few. This enormous range of ideas and perspectives is exactly what made the CSSS conference so worthwhile. In fact, the real benefit of being a soil scientist in Canada is the exposure to the full spectrum of soil-related issues throughout the country.

Following the conference proceedings was the evening banquet at Creelman Hall where colleagues and students gathered to share an excellent meal and honour fellow scientists. After the dinner, the awards ceremony recognized several soil scientists, three of whom were recognized with prestigious “Soil Science for Society” awards. Don Flaten (University of Manitoba), Jean Caron (Université Laval) and Art Bomke (University of British Columbia) were all recognized for their contributions to the discipline of soil science. All three award winners are excellent examples of soil scientists as role models not only in their respective disciplines, but also in their communities. Congratulations!

On the Friday morning following two days of conference proceedings, the Elora Research Station hosted a field tour for a group of a few dozen conference participants. The Elora tour began with an introduction to the 650 hectare research facility, focusing specifically on the 120 hectares devoted to field crop research. The Elora researchers then proceeded to tow the entire group of participants behind a tractor to explore several of their research installations throughout the property. The facility showcased a multitude of research initiatives, ranging from more traditional agricultural endeavors such as crop breeding and crop rotation studies to increasingly topical research assessing fast-growing bio-energy crops such as switchgrass and miscanthus.

While the Elora facility is owned and operated by the Department of Plant Agriculture at the University of Guelph, it also supports ongoing research projects by provincial agriculture scientists who actively disseminate research findings to local farmers through demonstration plots at the Elora facility. The Elora facility provides an excellent example of how research stations, when maintained and funded, are an essential component of an effective knowledge transfer system. It was very obvious from the field tour that the staff at the Elora facility were sincerely concerned with the needs of local farmers and were actively involved in disseminating relevant research findings to improve farming practices in the local community.

Following the field tour, I decided to go for a stroll through the famous University of Guelph arboretum to contemplate all of the ideas and perspectives explored during the event. Fortunately, Dr. Art Bomke from the University of British Columbia had the same idea. As it turns out, my master’s supervisor, Dr. Doug Maynard, was Art’s first master’s student over thirty years ago, a lineage that made me, as Art described it “his soils grandson!” Before the conference I had never met Art, so to find myself on the last day of the conference exploring the U of G arboretum discussing soils and appreciating Art’s insights was an absolute honor. It was at that moment that the importance of a soil science society rang true.

The 2009 CSSS conference was a top quality event that commanded scientific excellence within a relaxed and respectful atmosphere. This speaks volumes of the attention to detail by the event organizers. Thank you to all of the conference organizers and to everyone who traveled great distances to attend and participate in the 2009 CSSS conference. See you next year in Saskatoon!

About the Author

Dan Harrison is a MSc Candidate at the University of Victoria studying soil nutrient cycling in managed forests in British Columbia.



Ming Huang

Pan Ming Huang, 75, Professor Emeritus, Department of Soil Science, University of Saskatchewan, passed away on 13 September 2009 in Saskatoon, SK.

Ming received a B.Sc. from the National Chung Hsing University (1957), M.Sc. from the University of Manitoba (1962) and Ph.D. from the University of Wisconsin (1965). He joined the University of Saskatchewan in 1965, starting what was to be a distinguished career spanning 44 years. His research interests were broad and he was a prolific writer, publishing nearly 300 journal articles and book chapters. His contributions to soil and environmental science were recognized nationally and internationally, and he received both the University of Saskatchewan Distinguished Researcher Award (1997) and the Soil Science Research Award of the SSSA (2000). He was a Fellow in the Canadian Society of Soil Science, Soil Science Society of America, American Society of Agronomy, the American Association for the Advancement of Science, and the World Innovation Foundation. He was admired and respected by his colleagues and students, and though his presence will be missed, his memory, achievements and passion live on.

Pan Ming is survived by his wife Yun Yin; their two children Daniel (Doreen) and Crystal (Darwin); and four grandchildren (Olivia, Julia, Alicia and Lauren).

Transfers and Transformations: Our Evolving Biosphere CSSS 2010 Annual Meeting, Saskatoon Saskatchewan June 20 to 24, 2010: <http://www.usask.ca/saskatoon2010>

Upcoming Conferences

February 7-10, 2010, **4th International Conference on Plants & Environmental Pollution (ICPEP-4)**, Lucknow, India. Contact: The Organizing Secretaries (ICPEP-4), International Society of Environmental Botanists, National Botanical Research Institute, Rana Pratap Marg, Lucknow-226001, India. Email: isebnbrilko@sify.com. Website: <http://isebindia.com>

March 17-20, 2010: **First International Conference on Soil Fertility and Soil Productivity**, Humboldt Universitaet, Berlin, Germany. <http://www.uni-due.de/soil-fertility-productivity2010/index.shtml>

July 18-21, 2010, Denver, Colorado, USA. The 10th International Conference on Precision Agriculture. <http://www.icpaonline.org/>

August, 1-6, 2010, **19th World Congress of Soil Science**, Brisbane, Australia. <http://www.ccm.com.au/soil/>

August 8th to 12th, 2010. **Fifth International Symposium on Physiological Processes in Roots of Woody Plants**. University of Victoria, Victoria, BC, Canada. Visit www.uvic.ca/woodyroots. Contact: woodyrts@uvic.ca.

12-14 September, 2010, **14th DIPCON International Conference**, Quebec City, Canada.

<http://www.dipcon2010.org/index.html>

27 September – 1 October, 2010. **6th International phosphorus workshop (IPW6)**.

Seville, Spain. <http://www.ipw6.us.es/>

Oct 31-Nov 4 2010, **ASA-CSSA-SSSA. International Annual Meetings**, Long Beach, CA. <https://www.acsmeetings.org/>

December 3-7 2010, N2010, New Dehli, India. **Reactive Nitrogen: Management for Sustainable Development Science, Technology and Policy**. <http://www.initrogen.org/n2010.0.html>.

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