



PRESIDENT'S MESSAGE

As you read this fall newsletter, most of you will have finished or will be winding down your vacations and field work for another year. I hope it has been an enjoyable and productive summer for you.

Our Annual Meeting in Halifax from May 15 to 18 was an interesting success. Interesting specifically because of the groups we met with, the Geological Association of Canada, the Mineralogical Association of Canada and the Canadian Society of Petroleum Geologists. It was a great opportunity to explore new liaisons and areas peripheral to traditional soil science. We had almost 100 oral presentations and about half as many poster presentations, including an interesting special session on assessing environmental sustainability of Canadian agriculture to start off the conference. The members of our co-organizing group were very welcoming and suggested another such joint meeting in the future. Let us know your thoughts on this as we explore options for upcoming meetings.

Now on to planning the Banff meeting with the Canadian Geophysical Union (CGU) for May 13 to 17, 2006. If any of you are interested in getting involved in the planning of this meeting, your input would be most welcome. Please contact me and let me know of your interest. We are currently soliciting new sessions, short courses and field trips as well as commercial and educational exhibits. These will have to be determined over the next couple of months. If you attended the previous meeting we had with the CGU in Banff you will recall it was well attended and very interesting. So plan to be there!

We are in the process of replenishing Council for the 2006 calendar year. Please get your nominations in for president-elect, secretary, graduate student representative and eastern councilor if you have not already done so. It really is a great way to raise the profile of our society and our discipline and enjoy working with some dynamic and forward looking people.

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As we get back into high gear after the summer we will be continuing our work on several initiatives. The revised by-laws will be out to you to vote on shortly. Thanks to those of you who have responded to my last president's message with information and materials for our archives and history. We will continue working on this project over the next year, so continue to send me what you have and what you remember. Ed Gregorich has taken the lead on our Canadian Museum of Nature pursuits. Thanks to those who have discussed approaches and are working with him on this important profile endeavor.

Enjoy the upcoming beautiful Canadian autumn and let us hear from you on our ongoing initiatives and with your ideas to enhance and make more meaningful this important society.

Anne Naeth, PAg, PBIol
President CSSS

Nominations for CSSS Council Elections

The following CSSS Council positions will become vacant at the end of 2005: Graduate Student Representative, Eastern Councillor, President-Elect and Secretary.

The first three positions are filled by election (or acclamation if only one candidate), with the Secretary appointed by Council. Nominations to fill the three elected positions require consent of the nominee and signatures of three CSSS members. More information on the duties and responsibilities of these positions can be found on the CSSS web site at <http://www.csss.ca>

Please send nominations **by September 15** to Gary Parkin at gparkin@uoguelph.ca. Elections, if necessary, will be held in October. For more information about these positions, please contact Anne Naeth, CSSS President at anne.naeth@ualberta.ca or Craig Drury, CSSS President-Elect

The CSSS Newsletter is published three times a year (Fall, Winter and Spring). Contributions from members are most welcome. Please send contributions by email to the Eastern Councillor.

Highlights from the CSSS Annual Meeting, Halifax, Nova Scotia

There were many excellent oral and poster presentations given by graduate students this year at our annual conference in Halifax, Nova Scotia. Twenty four students competed for the C.F. Bentley Award for the top 3 oral presentations and 13 students competed for the President's award for the top 3 poster presentations. We also had 27 students apply for the twelve CSSS Student Travel Awards. My sincerest appreciation is extended all of the judges.

2005 CSSS Student Travel Awards

This award was established in 1991 to promote student attendance at the CSSS Annual Meetings and is available to any CSSS member graduate student. The award is \$500 and a maximum of 12 travel grants could be awarded.

Julia Bonin	University of Toronto	MSc. Student
Eartha Dupuis	McGill University	MSc. Student
Nikita Eriksen-Hamel	McGill University	PhD. Student
Paula Halabicki	University of Manitoba	MSc. Student
Stephanie Serran	University of Guelph	MSc. Student
Benjamin Sey	McGill University	PhD. Student
Janna Shymko	University of Manitoba	PhD. Student
Michael Steckler	Univ. of Saskatchewan	MSc. Student
Chantal Stumborg	Univ. of Saskatchewan	MSc. Student
Shelagh Torrie	Univ. of Saskatchewan	MSc. Student
Thomas Yates	Univ. of Saskatchewan	PhD Student



Student travel award winners. Front row (from left to right): Janna Shymko, Paula Halabicki, Eartha Dupuis, Julia Bonin and Shelagh Torrie.
Back row: Benjamin Sey, Thomas Yates and Michael Steckler.

Highlights from the CSSS Annual Meeting, Halifax, Nova Scotia

C.F. Bentley Award 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.

1 st Place:	Gordon Price	University of Guelph
2 nd Place (tie):	Thomas Gallant	Dalhousie University
2 rd Place (tie):	Shelagh Torrie	University of Saskatchewan

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.

1 st Place:	Manasah Mkhabela	Dalhousie University
2 nd Place:	Michael Steckler	University of Saskatchewan
3 rd Place:	Melissa Arcand	University of Guelph

Appreciation is extended to the judges for the C.F. Bentley Awards and the Presidents Awards. The 2005 judges were Dr. Martin Carter, Dr. Craig Drury, Dr. Annemieke Farenhorst, Dr. Cathy Fox, Dr. Ed Gregorich, Dr. Cindy Grant, Dr. Gerry Neilsen, Dr. Gary Parkin, Dr. Dan Pennock, Dr. Dan Reynolds, Dr. Bert VandenBygaart and Dr. Fran Walley.

2005 CSSS Student Book Awards

This award recognizes undergraduates at Canadian universities who demonstrate excellence in Soil Science. The award consists of a copy of the Soil and Environmental Science Dictionary published jointly by CSSS and CRC Press. Candidates are nominated by their academic department.

Diana Ball	University of Guelph
Ryan Boyd	University of Manitoba
Daniel Dodd	University of British Columbia
José Falardean	McGill University
Sasha Jattansingh	University of Toronto
Bonnie Kwiatkowski	University of Alberta
Kunihiko Niina	University of Saskatchewan
Maxime Paré	Laval University
Christina Tennent	Univ. of Northern British Columbia

- Submitted by Craig Drury, CSSS Awards Committee Chair, 2005

Highlights from the CSSS Annual Meeting, Halifax, Nova Scotia



Michael Steckler receiving a student presentation award from President Elect Craig Drury. Congratulations to all award winners, and thanks to all student participants!

Congratulations to our newest CSSS Fellows, Dr. Dan Reynolds and Dr. Henry Janzen!



CSSS members enjoyed the technical sessions and feasted on maritime delights in Halifax.



Highlights from the CSSS Annual Meeting, Halifax, Nova Scotia

Congratulations to Dr. H. Henry Janzen Fellow – CSSS 2005

Dr. H. Henry Janzen, Research Scientist at the Lethbridge Research Centre, is elected a Fellow of the Canadian Society of Soil Science (CSSS) in recognition of his outstanding contribution and dedicated service to Soil Science, leadership and training of young scientists. The award was presented at the CSSS annual meetings, on 17 May 2005, in Halifax, Nova Scotia.

Dr. Henry Janzen was born in Coaldale, Alberta and completed his elementary and high school education there. He earned his B.Sc. in Agriculture in 1980 and Ph.D. in 1984 in Soil Science from the University of Saskatchewan. He began his research career in Soil Biochemistry at the Lethbridge Research Centre, Agriculture and Agri-Food Canada in 1984 and continues as a Research Scientist there today.

Dr. Henry Janzen is a leading researcher in the field of soil carbon and nitrogen dynamics in agriculture ecosystems and has published prolifically in the profession's best journals. His outstanding research over the past two decades has contributed significantly to our understanding of carbon storage and flows in agroecosystems, and their links to the global C cycle. He is recognized for an uncommon number of notable research "firsts" which he has directed to application at the field level. His recent innovative effort to estimate net "whole-farm" greenhouse gas emissions as a function of management practices is especially noteworthy. In addition to more than 100 refereed journal publications and several book chapters which he authored or co-authored, he has widely disseminated his findings to the farming community and agri-business personnel. His presentations are incredibly lucid. He has the gift of translating complex research findings for larger audiences.

Dr. Janzen's motivation, combined with compatibility, makes him an ideal co-operator. His cooperation extends to a large number of scientists within and outside Canada, and also to numerous local and foreign trainees in his laboratory. He is currently an Associate Editor of the Canadian Journal of Soil Science and has served on editorial board of the Journal of Environmental Quality. He has been an invited speaker at several symposia organised by the Canadian Society of Agronomy, Canadian Society of Soil Science and the Soil Science Society of America.

Henry Janzen has a high profile nationally and internationally as reflected by his numerous invitations and visits to a wide range of institutions including his contribution to several Intergovernmental Panel of Climate Change (IPCC) documents.

-Submitted by Dr. M. (Charlie) A. Arshad

Highlights from the CSSS Annual Meeting, Halifax, Nova Scotia

Congratulations to Dr. W. Dan Reynolds Fellow - CSSS 2005

Dr. Dan Reynolds, Research Scientist at the Lethbridge Research Centre, is elected a Fellow of the Canadian Society of Soil Science (CSSS) in recognition of his outstanding professional accomplishments, practical and theoretical contributions, and dedicated service to Soil Science. The award was presented at the CSSS annual meetings, on 17 May 2005, in Halifax, Nova Scotia.

Having come into soil science with education and experience in hydrogeology, Dr. Dan Reynolds knew what were the greatest barriers to progress in soil physics and hydrology. He addressed and overcame one of those barriers during his PhD research, resulting in his receiving the Emil Truog Award in the USA, for his work on the mathematical understanding and development of the well-permeameter method. Subsequently, he, along with Professor Elrick, pursued the manufacturing and marketing of the highly practical well-permeameter under the name Guelph Permeameter (GP) with Soil Moisture Equipment Corp. The GP is one of the few very successful commercial ventures coming directly out of soil science.

Within AAFC, Dan successfully developed the pressure and tension infiltrometers. The key to success of these developments was the associated mathematical analysis and interpretation which permitted separation of gravity and sorption components in infiltration. Dan's involvement with the mathematics fully informed the physical design and construction of these permeameters and infiltrometers. The infiltrometers were designed to be used with the flow measuring components of the GP, providing a 3-in-1 tool.

Dr. Reynolds is an excellent author and co-author and is known as a perfectionist by his colleagues. He has edited and authored contributions in three major international soil science publications, particularly aimed at assuring adoption of best methods of measurement. These are CSSS Methods Manual (as and author); SSSA Special Publication #30 (as editor and author) (1992) and SSSA methods of Soil Analysis (as chapter editor and author) (2002). He has published over 50 peer reviewed articles and 19 book chapters.

This summarizes an outstanding level of soil science achievement by a very humble and dedicated soil physicist.

-Submitted by Dr. G. Clarke Topp

News from the Canadian Journal of Soil Science

The Canadian Journal of Soil Science (CJSS) serves as a science arm for the CSSS and showcases both Canadian and international Soil Science research. Some recent developments for CJSS are as follows:

- At the conclusion of 2004, Jeff Schoenau (soil fertility), Adrien N'Dayegamiye (soil management), and Monique Leclerc (agrometeorology) retired as Associate Editors. I would like to thank them for their hard work and expertise.
- In 2005 two new Associate Editors were appointed: Sue Grayston (soil microbiology) and François Courchesne (soil chemistry).
- Two special issues are in progress: 'Soil Carbon Measurement' (with Guest Editors Scott Smith, David Lobb, and Carlos Monreal), and 'Greenhouse Gas Emissions from Agriculture' (with Guest Editors Bert VandenBygaart, Henry Janzen, and Sean McGinn).
- Some other topics for special issues/sections are in the initial review stage: 'Below Ground Productivity in Soil Ecosystems', 'Recycling Nutrients from Wastes', 'Pharmaceuticals and Hormones in the Environment', and 'New Directions in Pedology'.
- To provide fast communication of research results, 'in press' CJSS manuscripts are now placed directly on-line - see the web site below.

The CJSS is interested in publishing more short review papers. If you have an idea or specific topic for a short review please let me know.

Martin Carter (carterm@agr.gc.ca)

Editor, CJSS (<http://pubs.nrc-cnrc.gc.ca/aic-journals/cjss.html>)

UPDATE: Soil Sampling and Methods of Analysis, 2nd Edition

The 2nd edition of *Soil Sampling and Methods of Analysis* is well underway. Nearly all of the first drafts have been received and these are undergoing a review process. The new edition has eight subject sections plus several appendices, over 75 chapters, and involves in excess of 150 authors.

As with the 1st edition in 1993, we have initiated a contract with CRC Press that will direct all royalties to CSSS and provides a 50% discount on book purchase for CSSS members.

- Submitted by Martin Carter and Ed Gregorich

Projected Opening Date for Smithsonian Soils Exhibit

The Soil Science Society of America (SSSA) is working with the Smithsonian Institution's National Museum of Natural History (NMNH), the U.S. Department of Agriculture (USDA), and others to plan a soils exhibit as part of the Forces of Change program at the NMNH, located in Washington, DC. The projected opening for the completed soils exhibit is 2008 or earlier, depending on funding.

In cooperation with Smithsonian staff, soil scientists from many regions and professions are working with SSSA committees to help develop the exhibit, fund raise, and distribute educational and promotional information. To date, more than \$800,000 has been raised towards the overall goal of \$4 million with fund raising efforts continuing through at least 2007.

Initial plans for the exhibit include two sections: one featuring state soil monoliths (see the sidebar below) and the other an interactive component featuring educational displays, exhibit panels, artifacts, videos, activity tables, experiments, and interactive games to help visitors understand how soil is intricately linked to the health of humanity, the environment, and the planet. If funding permits, a traveling exhibit will be sent to other museums and libraries to reach additional communities. Related educational outreach materials, including web activities, will reach millions more.

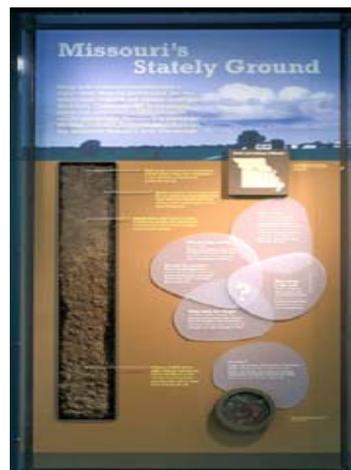
The museum attracts more than six million visitors each year; almost 20 percent who come from outside the U.S. Three major elements of the Soils Exhibit include:

1. National Museum of Natural History Exhibit, which includes two sections:
 - a. A soil monolith from each state will be on long-term display.
 - b. A temporary, interactive exhibit of up to 6,000 feet will explain soils to the more than six million annual museum visitors.

Tentative themes for the exhibit include:

- Soil as Life
- Soils Support Organisms
- Medicine from Soils
- Food from Soils
- Soils in Cultural History
- Role of Soils in the Environment
- Careers in Soil

2. During and following the temporary exhibit, some interactive display components will be made available to other museums and libraries as a traveling exhibit. One proposal calls for partnering with the American Library Association to reach library users in the U.S., targeting underserved and urban areas.
3. Educational outreach materials may include soil educational kits to be sent to librarians, K-12 teachers, and other groups. Other web-based educational activities, career information, and resource lists will be available on the Smithsonian Institution and SSSA web sites indefinitely.



SSSA has asked the Agronomic Science Foundation (ASF) to help raise the \$4 million needed for the exhibit. Soil Scientists and others interested in supporting the exhibit are asked to think about contacts they have with corporations and other potential funders and forward their ideas and contacts to the Agronomic Science Foundation. See the web site below for contact information. Soil Scientists and other interested parties are also asked to consider a personal gift to show their support for the project.

To learn more about the project, volunteer or contribute, visit www.soils.org/smithsonian. For information on understanding soils, visit <http://soils.usda.gov>.

CSSS Display at the Canadian Museum of Nature

The Canadian Museum of Nature in Ottawa is currently undergoing renovations and will be expanding their display area. The CSSS has had several preliminary discussions about including a soils display within the Ecology section of the Museum. The Museum has expressed interest in having the CSSS contribute to such a display. Such a display would be a good venue to present information to the public about soils in different ways and to show their importance in Canada. It would be important to show “soils” in themselves (e.g., genesis and formation) and from a people (e.g., traditions), society (e.g., values), and science point of view. And this “view” should be uniquely Canadian.

Input from CSSS members to this venture is vital and would be welcome. Please forward any ideas and suggestions you have about developing a soils display to either Ed Gregorich (gregoriche@agr.gc.ca) or Bert VandenBygaart (vandenbygaarta@agr.gc.ca).

Identifying Strategies to Support Sustainable Agriculture in Canada

The Agricultural Institute of Canada, in collaboration with l'Ordre des agronomes du Québec, and other partners, is hosting the national forum: Identifying Strategies to Support Sustainable Agriculture in Canada to address the issues and explore approaches to achieving measurable advances towards the goals for sustainability. The preliminary program is posted on the AIC website at <http://www.aic.ca/conferences/upcoming.cfm>

The forum will bring together researchers, professional agrologists, producers, environmental NGOs and government policy makers to provide status and trends updates on the issues, examine advances in technology and innovation, present case studies of best environmental on-farm practices, and stimulate discussion on existing gaps in research and policy that need to be addressed.

For more information, visit our website at www.aic.ca/conferences/registration_online.cfm

Visit the Updated CSSS Website!

See the CSSS web site homepage at <http://www.csss.ca> for Newsletters, Council, Business Office, Annual Report, Events Page, Careers, Student News, important links and much more. Be sure to check our our new CSSS CareerSite – just click on Job Postings.

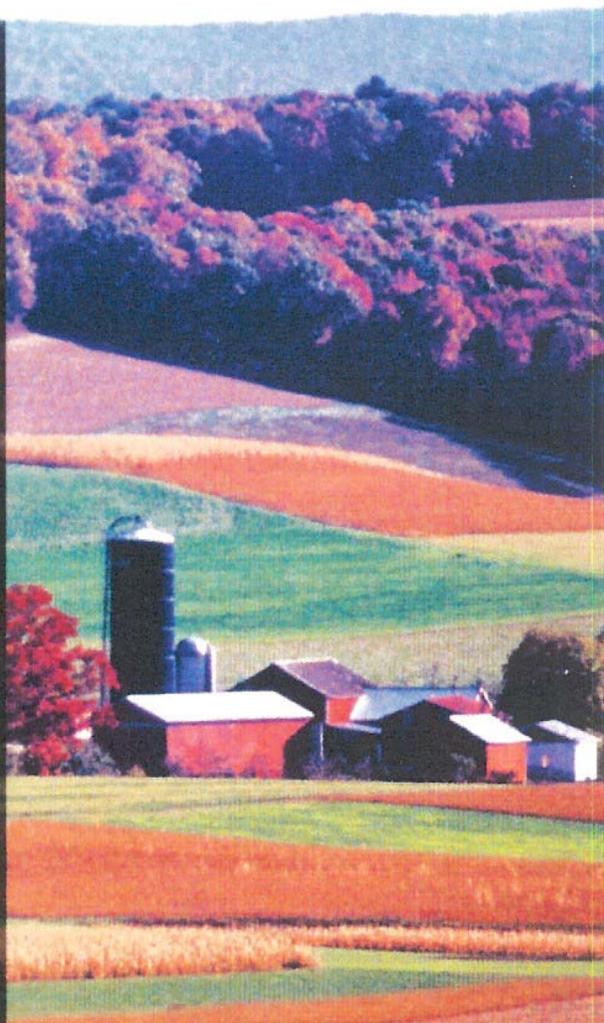
Agricultural Institute of Canada presents...
Identifying Strategies to Support Sustainable Agriculture in Canada

A conference to integrate science, policy, and information exchange to advance environmentally, socially and economically sustainable agricultural systems.

**November 6-9, 2005
Loew's Le Concorde Hotel
Quebec City, QC**



**Visit: www.aic.ca for more info
Or contact Elizabeth Muckle-Jeffs,
Conference Administrator
T: 800-868-8776
E: profedge@renc.igs.net**



UPCOMING CONFERENCES

Sept. 12-16, 2005

International Conference on Human Impacts on Soil Quality Attributes (HISQA)
Isfahan University of Technology
Isfahan, Iran
www.iut.ac.ir/cesoil

Sept. 14-19, 2005

15th International Plant Nutrition Colloquium
Beijing, China
www.cau.edu.cn/ipnc
www.ipnc15.com

Sept. 20-23, 2005

CropLife Canada's 2005 Conference and AGM
Sheraton Fallsview, Niagara Falls, ON
www.croplife.ca

Oct. 23-26, 2005

Agriculture's role in managing Antimicrobial Resistance Conference 2005
Toronto Airport Marriot Hotel, Toronto
www.gov.on.ca/OMAFRA/english/livestock/vet/pubhealth.html

Oct. 30 - Nov. 3, 2005

6th Pacific Rim Conference - Biotechnology of *Bacillus thuringiensis* and Its Environmental Impact
Victoria, British Columbia
www.biocontrol.ca

Nov. 6-9, 2005

AIC Conference – Sustainable Agriculture
Quebec City, Canada
www.aic.ca/conferences

Nov. 6-10, 2005

ASA-CSSA-SSSA Annual Meeting
Salt Lake City, Utah
www.saltlake-2005.org

Nov. 10-12, 2005

World Science Forum—Budapest 2005
www.sciforum.hu

Nov. 17-25, 2005

3rd International Conference on Soils of Urban, Industrial, Traffic, Mining, and Military Areas (SUITMA),
Cairo, Egypt
www.eun.org/suitma

Jan. 22-27, 2006

14th World Fertilizer Congress of the CIEC
Chiang Mai, Thailand
www.ldd.go.th/wfc14th

Apr. 8-12, 2006

International Conference on Hydrology and Management of Forested Wetlands
New Bern, North Carolina
www.asae.org/meetings/Forest2006/index.htm

May 13-17, 2006

Canadian Society of Soil Science Annual Meeting (with Canadian Geophysical Union)
Banff, Alberta
www.cgu-ugc.ca

July 9-15, 2006

18th World Congress of Soil Science
Philadelphia, Pennsylvania
www.18wcss.org

Aug. 6-11, 2006

Ecological Society of America Annual Meeting
Memphis, Tennessee
www.esa.org

Nov. 12-15, 2006

ASA-CSSA-SSSA Annual Meeting
Indianapolis, Indiana
www.agronomy.org

For more conferences, visit our website at <http://www.csss.ca>

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The CSSS Business Office is here to help with:

- membership concerns
- updated CSSS membership list
- CJSS journal subscriptions
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