



PRESIDENT'S MESSAGE

Those of you who attended our Canadian Society of Soil Science annual meeting in Saskatoon last June had the opportunity to hear Gwynne Dyer's lecture "Climate Wars: The Problem is Food". His discussion of the potential impact that a changing climate will have on food security and global political stability was sobering. The erratic weather conditions over the past year, both locally and globally, reinforce the importance of climate for our society. The flooded fields in the prairies, the heat waves in central Canada and the drought-related fires in British Columbia have highlighted the sensitivity of the Canadian economy to climate stresses. On a broader scale, the devastating floods in Pakistan are displacing millions, while the heat and fires across Russia, Ukraine and Kazakhstan have drastically cut grain production. In southwestern China and parts of Southeast Asia, spring drought has reduce crop yields and continues to threaten water supplies, while subsequent flooding and mudslides in China caused further damage. The potential impact of these weather events on grain production is causing concern that there may be another large spike in food costs as was seen in 2008. As Dyer points out, shortages of food can lead to political instability, so the ability to maintain an affordable food supply in the face of increasingly unpredictable weather is of utmost importance.

At the recent World Congress of Soil Science in Brisbane, two seemingly contradictory goals were presented in two of the keynote speeches. On one hand, the importance of ensuring an adequate supply of affordable food to avoid starvation was identified. On the other hand, another speaker underlined the importance of ensuring high enough crop prices so farmers can make an adequate living and continue to produce the food that is needed. With an increasingly variable climate, these challenges may appear even more difficult to address.

As soil scientists, we can make an important contribution. Our members are actively developing means of climate change mitigation and adaptation. We are working to safeguard the quality of our air, soil and water to make sure that these resources are available for future generations. We are involved in improving the resiliency of our forestry and agricultural systems to damage from weather variations, diseases and pests. We are striving to improve the economic efficiency of crop production, so that farmers can make a profit while providing affordable food to the world's poor. We are developing the scientific tools that are needed for the future, but these tools need to be accepted by policy makers and adopted by producers in the field. Therefore, our challenge as soil scientists is not just to develop the tools, but to go a step further. We need to ensure that these tools are put into practice, to avoid the bleak vision of the future that Dyer outlined in his lecture.

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Manitoba's Provincial Soil Proclaimed

July 21, 2010 - It's official - Manitoba has a Provincial Soil! The Newdale Soil was passed through the Legislature and received Royal Assent on June 17th as representing the productive soils that support Manitoba agriculture and our economy. Cliff Cullen, MLA for Turtle Mountain, introduced and supported the designation through the Legislature.

Newdale Soil is a valuable soil of the eastern Prairies in a group known as Black Chernozems, which are dark, grassland soils. They are rich in organic matter and look black in colour. Manitoba has more Black Chernozems than any other province.

This soil was proposed by the Manitoba Soil Science Society since it reflects the richness of the Manitoba landscape. This was also supported by the University of Manitoba Department of Soil Science and the Keystone Agricultural Producers. In Canada, provincial soils have been proclaimed in Prince Edward Island, New Brunswick, and Nova Scotia, with soils already designated for Alberta, Québec, and British Columbia. In the United States, every state has a designated soil.

"Soil is one of our critical resources supporting life, it is the basis for our agricultural food production, and performs ecological services such as controlling water quality and quantity," said Dr. Brian Amiro, head of the University of Manitoba's Department of Soil Science.

Please click on the link below to view a map of black soil in Manitoba, or paste the URL address into your internet browser.

Thanks!

https://www.regonline.com/custImages/289005/Manitoba_black_soil_zones.pdf

Soils Related Session at AGU 2010 San Francisco

Session details:

http://www.agu.org/meetings/fm10/program/scientific_session_search.php?show=detail&sessid=104

TITLE: Integrating Recent Knowledge of Soil Carbon to Help Develop Process-Based Soil Carbon Models

Sponsor: Biogeosciences

Abstract: Much of the uncertainty in the terrestrial carbon cycle forecast is due to our limited understanding and representation of soil carbon. Models of soil carbon dynamics fail to integrate recent conceptual advances, such as the effects of soil biota, plants, and chemistry on soil carbon dynamics at various spatiotemporal scales. This session seeks to integrate varying sources of information by bringing together soil scientists, soil biologist, soil flux and modeling communities to discuss recent findings and help advance process-based models of soil carbon. We invite submissions that span dimensions of space (i.e. stock and flux data) and time (chronosequence, isotope, and modeling studies).

What's new on the Canadian Society of Soil Science Website?

As you have likely noticed the CSSS website (www.csss.ca) has had a major overhaul thanks to some dedicated work by our Western Councilor Maja Krzic. Not only has the overall look and feel improved but the content has as well. There are now very useful links included which will lead you to some of the most useful resources available on soils in Canada. Links to provincial organizations now are listed, along with long pages of links to useful on-line education resources, soil science programs at Canadian Universities, long-term soil science-related experiments in Canada and international soil science societies. The CSSS career site is also linked along with an events calendar.

The website now puts a very bright light on our soil science society which should ultimately improve our ability to relay the importance of the soil resource to the society at large. Check it out!

Some useful links included at the CSSS website:

Soil Resources

[Soils of Canada](#)

[The Canadian System of Soil Classification, 3rd ed. Agriculture and Agri-Food Canada Publication 1646, 187 pp.](#)

[Canadian soil information system](#)

[GlobalSoilMap.net](#)

[Methods manual for forest soil and plant analysis. \(Y.P. Kalra and D.G. Maynard, Canadian Forest Service, Edmonton, Alberta, Canada\) 116 p.](#)

[Soil Survey Laboratory Methods Manual; \(Soil Survey Laboratory Investigations Report No. 42\)](#)

[Soils of Canada: Thematic Soil Maps. Agriculture and Agri-Food Canada](#)

[Canadian Soil Thin Section Collection](#)

Soil Science Education

[SoilWeb](#)

[Pedosphere.com](#)

[Virtual Soil Processes](#)

[Soil Orders of Canada](#)

[Land-use Impacts Tool](#)

[Soil Monoliths Collections at the University of Alberta](#)

[Smithsonian National Museum of Natural History exhibit "Dig it! Secrets of soil"](#)

[Natural Resources Conservation Service \(NRCS\) Conservation education material for teachers K-12](#)

CSSS Awards Banquet
 June 23, 2010
 University of Saskatchewan
 (please see insert for Awards Photos)

A) Fellow Awards

The CSSS Fellow award is given to members with a distinguished record of accomplishment in Soil Science and service to the Society. This year two members are receiving Fellow Awards: Frank Larney and Dan Pennock.

B) Graduate 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 will be awarded. This year we had 39 applicants, and 12 were selected.

Cartier, Lindsay	University of Guelph
Chiyoka, Waraidzo	University of Manitoba
Debela, Firke	University of Northern British Columbia
Dickson, Taryn	University of Manitoba
Harrison, Dan	University of Victoria
Kartz, Cory	University of Alberta
Kernecker, Maria	McGill University
Liu, Hailong	AAFC/CAAS
Messing, Paul	University of Manitoba
Schneider, Kim	University of Guelph
Steinke, Lance	University of Alberta
Winsborough, Carolyn	University of Toronto

C) Undergraduate Student Book Awards

This award recognizes undergraduates at Canadian universities who demonstrate excellence in Soil Science. The award consists of a copy of a textbook published by the CSSS, this year the Soil and Environmental Science Glossary published jointly by CSSS and CRC Press. Candidates are nominated by their academic institutions, and this year there are 10 awards.

Amirizian, Alexandre	McGill University
Dallaire, Catlan	University of Saskatchewan
Hills, Katherine	University of Toronto
Holmes, Emma	University of British Columbia
Housman, Kristyn	University of Alberta
Knoll, Kelsey	University of Northern British Columbia
Loo, Shawn	Nova Scotia Agricultural College
Murata, Alison	University of Manitoba
Oke, Jessalyn	University of Guelph
Périard- Larivée, Yann	Université Laval

D) Student Presentation Awards

Judges:

Lindsey Andronak	Chantal Hamel	Alison Murata	Scott Smith
Denis Angers	Richard Heck	Sylvie Quideau	Bert VandenBygaart
Nathan Basiliko	Darshani Kumaragamage	Lisette Ross	
Barbara Cade-Menun	Alan Moulin	Isabelle Royer	

Oral Presentations - C.F. Bentley Award

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.

This year there were 50 student oral presentations

Winner:	Ryan Hangs (University of Saskatchewan) AND Adam Gillespie (University of Saskatchewan)
1st Runner Up:	Asim Biswas (University of Saskatchewan)
2nd Runner Up:	Adekunbi Adeleke (University of Saskatchewan)

Poster Presentations - President's Award

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.

This year there were 51 student poster presentations.

Winner:	Ryan Hangs (University of Saskatchewan)
1st Runner Up:	Jennifer Bentz (University of Saskatchewan)
2nd Runner Up:	Courtney Kosty (University of Saskatchewan) AND Lindsay Tallon (University of Saskatchewan)

*David Lobb, President-Elect, Awards Committee Chair
 Past-Presidents Craig Drury and Gordon Price*

CSSS Fellow Award



Dan Pennock

(left to right: Dave Lobb, Dan Pennock, Fran Walley)

Frank Larney

(Frank was unable to attend the banquet due to a death in the family)

Thank You – CSSS Fellow Award

Unfortunately I had to leave early from the recent CSSS Annual Meetings in Saskatoon to attend a family funeral in Ireland. Since I could not be present at the Awards banquet, I would like to take this opportunity to thank CSSS for the Fellow Award, especially David Lobb (Chair of the Awards Committee) and Cindy Grant (President). It is an honour and a privilege to receive this Award, which embodies over 30 years of soil science research, and over 20 years of membership and service to CSSS. Particular thanks are due to Henry Janzen for overseeing my nomination, delivering the citation at the awards ceremony, and accepting the Award in my absence. Also, the contribution of colleagues in writing letters of recommendation, to support my nomination, is very much appreciated. I look forward to continued involvement in CSSS for many more years to come.

Thank you.

Frank Larney, Agriculture & Agri-Food Canada, Lethbridge, AB





Oral Presentations
C.F. Bentley Award

Winner: **Ryan Hangs** (left)
(University of Saskatchewan)
AND
Adam Gillespie (right)
(University of Saskatchewan)

1st Runner Up: **Asim Biswas** (left)
(University of Saskatchewan)

2nd Runner Up: **Adekunbi Adeleke** (right)
(University of Saskatchewan)

Poster Presentations
President's Award

Winner: **Ryan Hangs** (left)
(University of Saskatchewan)

1st Runner Up: **Jennifer Bentz** (right)
(University of Saskatchewan)

2nd Runner Up: **Courtney Kosty** (left)
(University of Saskatchewan)
AND
Lindsay Tallon (right)
(University of Saskatchewan)



Yash P. Kalra Retires

Yash P. Kalra received his M.Sc. (Agricultural Chemistry) degree from the Government Agriculture College (C.S. Azad University of Agriculture and Technology), Kanpur, India on a Research Fellowship from the Indian Council of Agricultural Research (1961-1963). He came to Canada in 1963 on an International Travel Award from the Prime Minister of India and a Research Fellowship from the University of Manitoba for further studies in the Department of Soil Science.

Yash joined our Winnipeg lab on September 18, 1967 and moved to Edmonton in 1970 when the Northern Forestry Centre was formed by the amalgamation of the Winnipeg and Calgary labs. He retired on April 28, 2010 after serving the Canadian Forest Service for more than 42 years.

In his four decades as Head of the Soil and Plant Analysis Laboratory, he has shaped our lab as one of the most respected laboratories in the world. Yash has served on the Safety Committee for 35 years and has been responsible for the management of hazardous chemicals for 40 years. For his leadership and commitment to lab safety, recently he was given the Award of Recognition by Tim Sheldon, Director General, Northern Forestry Centre.

Yash has been a member of 15 scientific societies including the Canadian Society of Soil Science. A member since 1964, he has had the longest association with CSSS. The first Annual Meeting that he attended was in Montreal in 1967. Yash has made enormous contributions to CSSS. As Secretary (1993-1995), he was also Editor of the CSSS Newsletter. Yash also has the distinction of being the only Canadian Forest Service, Natural Resources Canada scientist to have served as CSSS President (1996-1997). He was one of the most vibrant Presidents of CSSS. Some of his many contributions are: Chair, Awards Committee; Chair, Scientific Sessions at the Annual Meetings; Member President's Student Poster Awards Committees; Reviewer of CJSS; Presented oral and poster papers at the Annual Meetings, Co-authored a chapter in the CSSS book *Soil sampling and methods of analysis*. Yash has often said that "CSSS is one of the best societies in the world".

For his significant contributions to the CSSS and soil science, Yash was named a Fellow at the Annual Meeting in Charlotte-town in 1999. Yash is also a Fellow of the AOAC INTERNATIONAL, Indian Society of Agricultural Biochemists, Indian Society of Soil Science and National Academy of Agricultural Sciences (India).

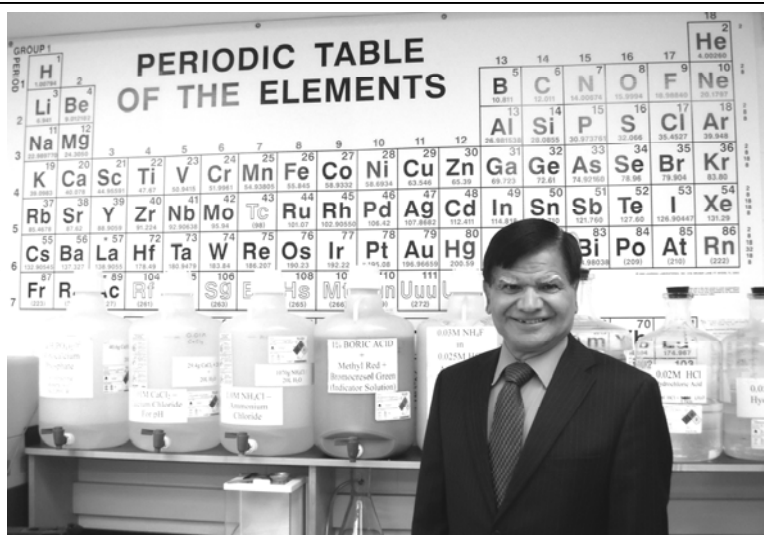
Yash is an internationally-renowned soil chemist. He is a co-founder of the Western Enviro-Agricultural Laboratory Association and served as its President in 1983-84 and 1987-88. He was the first Chair (1990-1992) of the Canadian Forest Service's Group of Analytical Laboratories that he founded in 1990. In addition to leading CSSS, WEALA and GOAL, he has served as President of the AOAC INTERNATIONAL Pacific Northwest Section (2001-2002, 2007-2008), Soil and Plant Analysis Council International (2000-2002), Bhoovigyan Vikas Foundation (Foundation for Earth Sciences Development, India) Overseas Chapter (2002-present), and the Professional Institute of the Public Service of Canada, Edmonton Branch (2007-2009, 2009-present). Yash is the only Canadian to have served as President of the AOAC International Pacific Northwest Section in its 28 year history. He is also the first Canadian to have served as President of the Soil and Plant Analysis Council International. He coordinated the first soil check sample program of the Western Enviro-Agricultural Laboratory Association in 1978. His contributions to the Soil Science Society of America include: Chair (1998-2002), Coordination of Official Methods of Soil Analysis Committee (S889), Member (1998-2000), North American Proficiency Testing Program Oversight Committee (S890), and President (2000-2002), Soil and Plant Analysis Council (S607).

Yash has served as a Member of Organizing Committees of more than 50 national and international conferences, symposia, annual meetings and workshops. He has served as a reviewer for several journals including CJSS. In addition to his scientific contributions, he is a devoted volunteer. During the last 35 years, he has volunteered for about 35 organizations.

Joe Crumbaugh

Northern Forestry Centre, Canadian Forest Service, Natural Resources Canada, Edmonton, Alberta Canada

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Canadian Society of Soil Science Treasurers' Report

for the

Canadian Society of Soil Science Annual General Meeting, June 21-23, 2010

University of Saskatchewan, Saskatoon, Saskatchewan

Paul Bullock

Financial Reports for 2009

The 2009 financial situation for the CSSS turned out much better than budgeted as a result of excellent proceeds from the Guelph conference. Without this unexpected income, the 2009 financial results would have been a much larger deficit than budgeted. Overall, CSSS is financially healthy with more than a year's worth of expenses in savings and the Trust Fund growing above the target rate over the past year.

CSSS Operating Funds Income and Expenses

Total income in 2009 would have been very close to the budgeted amount but an additional \$11,129 in revenue from the Guelph conference meant that total income was 35% higher than expected (Table 1). The increase in membership fees approved in 2008, resulted in higher membership revenue in 2009 as well. Interest earnings from the bank accounts were down because of historically low interest rates. Trust Fund income was down from the high level in 2008, when the release of new publications increased royalty payments.

Expenses in 2009 were higher than budgeted, mainly because of the support provided by CSSS to the Soils of Canada website (Table 1). This expense was approved by council after the 2009 budget was passed. In comparison to 2008, 2009 expenses were higher mainly because of the upgrades to the CSSS website and the Soils of Canada website support. The Trust Fund income was less than what was needed to cover expenses payable by the Trust Fund. However, the operating account had accumulated a significant amount owing to the Trust Fund in 2008, so the deficit in 2009 was offset by this difference.

Income exceeded expenses by almost \$6,700. However, without the Guelph conference revenue, there would have been deficit exceeding \$4,000.

CSSS Balance Sheet for Trust and Operating Accounts

Equity in the CSSS Trust Fund increased by approximately \$18,000, from \$294,558 to \$312,773 (Table 2). The net increase in Trust Fund equity after deducting expenses was 6.2%, a good rate of return that exceeded the target rate of 5% annual growth recommended by the Finance sub-committee last fall. Of course, returns fluctuate significantly from year to year (3.8% in 2008), but hopefully the years with good returns will balance those with poor returns. The assets in the CSSS Trust were rebalanced in September 2009 and, as of December 2009, the fund held approximately 22% of its assets in equity funds and mutual funds. The proportion of assets tied to equities will be increased towards a 30 to 35% target as bonds mature unless there is opportunity with rising interest rates to purchase fixed assets with a return of 5% or greater.

Interest earned on the CSSS chequing and savings accounts declined in 2009 from 2008 as interest rates remained at historic lows. However, the saving account balance at nearly \$45,000 represents a buffer of more than a year of typical CSSS expenses.

Budget Proposed for 2011

The 2011 budget shows a significant deficit (Table 3). Income is forecast at normal levels expected in years without conference revenue. Expenses are forecast higher than the previous 2 years as a result of expected costs to host the AGM in San Antonio in 2011. CSSS Council would like to offset council member travel by \$300 per person, in order to get as many council members as possible to attend the AGM. The additional expense of redeveloping the CSSS and Soils of Canada web sites will not occur but there will continue to be ongoing maintenance required. It is expected that Trust Fund revenue in 2011 will likely fall short of covering expenses covered by the Trust Fund and that there will be a small amount owing by 2011. If this continues, then a transfer of funds from the Trust to the operating account may be warranted by 2012. In light of recent financial performance by CSSS, the forecast for a deficit in 2011 is not unreasonable and the society can bear this cost without major difficulty.

Canadian Journal of Soil Science – Editors Report

August, 2010

I would like to express my sincerest appreciation to Tim Fenton and Laurie Scott for their hard work and support in managing our journal. Appreciation is also expressed to Dr. Gary Kachanoski as Past Editor of CJSS as well as to the Associate Editors who have completed their terms (Dr. Eric Blanchart, Dr. Sean McGinn, Dr. Guy Richard and Dr. Margaret Schmidt).

We are very fortunate to have Dr. Jean Caron (U. of Laval), Dr. Jeff Strock (U. of Minnesota), Dr. Mario Tenuta (U. of Manitoba), Dr. Xueming Yang (AAFC, Harrow), Dr. Francis Zvomuya (U. of Manitoba) as the new Associate Editors for CJSS. We currently have 1 Editor-in-Chief, 1 Special Issues Editor and 16 Associate Editors on the CJSS Editorial Board.

Journal Status

The submission rates for CJSS have been steadily increasing and we are on track for a record number of papers submitted to our journal this year. Thus far 89 papers (as of August 26th, 2010) have been submitted compared to our 5 year average annual submission rate of 112 papers and last years record of 123 papers. In 2009, 42% of the papers originated outside of Canada. In 2009, for the 108 papers that have reached a decision, 48% of the papers have been accepted, 45% have been rejected and 7% have been withdrawn.

The impact factor (IF) for CJSS has also been increasing. In 2009, the IF was 1.023 and the 5-yr IF was 1.172 with a half life which has been consistently greater than 10 years.

I would like to reduce the amount of time it takes for authors to receive their first review as well as the total time it takes for the time from submission until a final decision has been made. I polled the Associate Editors and the consensus was to reduce the Reviewers time from 2 months to 6 weeks and the authors revision time from 3 months to 6 weeks. These shorter turn-around times may help to shorten the overall review process.

CJSS and many other journals are experiencing a high number of refusals from reviewers which is not only frustrating for AE's but it also increases the review process. Typically 4-5 people review every paper (Editor, Associate Editor, and 2-3 reviewers) that is submitted for publication. Hence for every paper that an author publishes he/she is encouraged to review at least 4-5 papers. Although it is a timely process it is an investment in our Journal and in Soil Science.

On-line submission (ScholarOne)

The National Research Council has decided to no-longer support the OSPREY on-line submission system. The Agricultural Institute of Canada and the Editors of the 3 AIC journals (Can. J. Soil Sci., Can. J. Animal Sci. and the Can. J. Plant Sci.) have decided to switch to ScholarOne for on-line manuscript submissions. ScholarOne is a more intuitive and flexible submission system. We are now in the testing phase and anticipate that ScholarOne will go live in September. Manuscripts currently submitted using the OSPREY system will remain in this system until a final decision is made and only new submissions will be processed using ScholarOne.

Special Issues/Sections

There are 4 Special Issues/Sections in progress and 2 Special Issues planned for fall submission:

In Progress

- Measurement and Processes in Frozen Soils (Guest Editors: Suzanne Allaire & Pieter Groenevelt – 4 submissions).
- Flow and Transport in Layered Soils (Guest Editors: Bing Si, Myles Dyck and Gary Parkin – 6 submissions).
- Great Lakes Phosphorus Forum (Guest Editors: Tiequan Zhang and Keith Reid - 16 submissions).
- Soils of Canada (Guest Editors: Dan Pennock, Lito Arocena and Scott Smith – 11 submissions)

Future Issues/Sections

- Soil Reclamation (Guest Editor: Anne Naeth) (submissions planned for fall, 2010)
- Soil Quality and Management of World Mollisols (Guest Editors: Xiaobing Liu, Ted Huffman, Bing Si and Richard M. Cruse)

If you have any comments or suggestions please feel free to contact me.

Craig F. Drury, Editor Canadian Journal of Soil Science

Upcoming Conferences

Greenhouse Gases and Animal Agriculture Conference - Oct. 3–8, 2010

October 3–8, 2010, Banff, Alberta

<http://ggaa2010.org/>

Soil Science Society of America Joint Conference with ASA and CSSA

2010 International Annual Meetings

31 Oct. – 4 Nov. 2010-04-06 Long Beach, California, U.S.A.

<https://www.acsmeetings.org/>

9th International Rangeland Congress. April 2-8, 2011

9th International Rangeland Congress

April 2-8, 2011

Rosario, Argentina

www.irc2011.com.ar

Geospatial Technologies for Sustainable Planet Home | Find | Add a conference

7 to 9 October 2010

Allahabad, Uttar Pradesh, India

<http://www.mnnit.ac.in/opensdi2010/>

Annual International Conference on Soils, Sediments, Water and Energy

18 to 21 October 2010

Amherst, Massachusetts, United States

<http://www.UMassSoils.com>

2011 North American Environmental Field Conference & Exposition

11 to 13 January 2011

San Diego, California, United States

<http://www.envirofieldconference.com>

Annual International Conference on Soils, Sediments, Water and Energy

14 to 17 March 2011

San Diego, California, United States

<http://www.aehsfoundation.org>

International Conference of Agricultural Engineering

31 March 2011 to 1 April 2011

Pattaya, Chonburi, Thailand

<http://www.kmitl.ac.th/agrieng/>

12th International Symposium on Soil and Plant Analysis

6 June 2011 to 10 June 2011

Crete, Greece

Email: registration@isspaonline.org

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