



NEWSLETTER

CANADIAN SOCIETY for HORTICULTURAL SCIENCE
SOCIÉTÉ CANADIENNE DE SCIENCE HORTICOLE

Your executive / *Votre exécutif*

President	<i>David Percival</i> , NS	<i>Président</i>
Vice President	<i>Denis Charlebois</i> , QC	<i>Vice-président</i>
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Prairie representative	<i>Bob Bors</i> , SK	<i>Représentant des Prairies</i>
Central representative	<i>Laura L. Van Eerd</i> , ON	<i>Représentante du centre</i>
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Eastern representative	<i>Vasantha Rupasinghe</i> , NS	<i>Représentant de l'est</i>
Past President	<i>Shahrokh Khanizadeh</i> , QC	<i>Président sortant</i>

March 2009

Volume 4 No. 1

Mars 2009

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PRESIDENT'S CORNER



Greetings CSHS members! With the aches, pains and doldrums' associated with winter still upon us, it is great to see the activities that CSHS has been involved with, and has planned for the upcoming year. Of immediate interest is the upcoming CSHS Annual Meeting which is being held on 18 June 2009, at Laval University. This meeting is providing the opportunity to interact with horticulturalists from a variety of disciplines and locations as a result of the integration of our meeting with the ISHS sponsored, Greensys 2009 meeting and also the Annual Meeting of the Horticulture Research Center at Laval University. Please note that registration deadline for this event is quickly approaching (March 27). I hope you consider attending our Annual Meeting, and if you have any thoughts on sessions that we should try to organize for this meeting (including invited speakers), please let us know.

David Percival, Ph.D.

President of CSHS

dpercival@nsac.ca

Telephone: (902) 893-7852

MESSAGE FROM THE SECRETARY-TREASURER



Dear Colleagues,

Welcome to March 2009 CSHS's newsletter. The next CSHS annual meeting will be held with the Joint CSHS/CRH/Greensys 2009 meeting, which will take place from June 14–19, 2009 in Quebec City, Quebec. Efforts will commence on the 2009 CSHS awards. CSHS will provide student travel, best oral and poster contribution awards and invite speakers for the conference. The tentative date of the next CSHS Board Meeting is June 18, 2009 at Quebec City.

CSHS 2008 Financial Statements:

Balance Sheet Items

Bank - \$29,486 - available for Society use.

Bank - Endowment Fund: \$1,034 plus \$15.00 accrued interest. The investment is a Rate Riser GIC with the Bank of Montreal, maturing May 25, 2010 and is cashable after May 25, 2008.

Investment Certificates: Macoun Hill – \$ 10,648.58 plus \$170.00 accrued interest - invested May 17, 2008, in a Bank of Montreal variable rate GIC with interest rate at 2.50%.

Investment Certificate: \$10,056.84 Western Canadian Society for Horticulture - \$9,936.84 plus \$120.00 accrued interest invested in a variable rate GIC with interest rate 2.4%. The maturity date is July 22, 2009.

Prepaid Expenses: \$1,707.92 – \$450.75 to M. Guellaume Grégoire for translation of the Hortshorts, \$807.69 to Shahrokh Khanizadeh for internet domain name registration and site renewal and \$449.49 for six months Directors and Officers Liability insurance.

Accounts Payable: \$1,124.72 – \$852.72, 2008 expense for AIC 4th. quarter services. \$32.51 investment interest due to Macoun Hill fund and the balance of \$239.50 is Canadian Journal of Plant Science subscriptions collected and payable to AIC.

WCSH Fund: \$10,056.84 – investment and accrued interest. This is a balance sheet account and as such will not be treated as income to the Society until further instructions are provided.

Deferred CSHS Fees: \$2,245.00 – year 2009 membership fees collected in 2008. This revenue will be recognized on January 01, 2009.

Plant Canada Report:

At the 2007 Plant Canada meeting held in Saskatchewan, it was decided to hold the Plant Canada meeting every four years. The next Plant Canada meeting is scheduled to be in Halifax in 2011, and CSHS is taking a co-sponsoring role with the Canadian Society of Agronomy with this meeting. Tentative date: July 18–22, 2011.

ISHS Country Membership:

ISHS revised a new Annual Country Membership Fee of €240 (~\$360/year) and it was decided that CSHS would pay the ISHS Country Membership Fee with the understanding that ISHS is to provide an overview of what services ISHS can provide to CSHS. Once the ISHS Country Membership Fee has been paid, it is anticipated the next task will be to get CSHS representation on ISHS's Council. CSHS will be sending out a "call of interest" by e-mail to CSHS members and may have an election if sufficient interest is present. If you are interested, please feel free to contact Samir Debnath (Samir.Debnath@AGR.GC.CA).

CSHS Web Site:

CSHS continued to be very fortunate in having an excellent web site under the maintenance of Shahrokh Khanizadeh. The site has information on the society, membership information, upcoming meetings, awards, opportunities, etc. CSHS is also providing space on its server for the Plant Canada web site. If you have any questions or concerns regarding the web site, please feel free to contact Shahrokh or other members of the CSHS Executive.

AIC/CSHS International Activities:

An update on the activities of the Ghanaian Institute of Horticulturists (GhIH)/CSHS Dry Season Vegetable Project was provided by Josee Owen. The objectives for the project have been to improve irrigated vegetable production in the Upper West Region of Ghana, and support GhIH through membership, publication of the journal and vibrant student association. The project was extremely active with outcomes including increased amount and types of vegetables, improved nutrition and health, increased family income, more employment reduces migration, which reduces AIDS and

Guinea worm infection and greater gender equity. However, the region was hit by severe droughts and floods.

Scientific Meetings Related to Horticulture:

(i) 2009 - International Symposium on Sustainable Greenhouse Systems Greensys 2009, Hotel Loews Concord, Quebec City Canada from June 14–18, 2009 (www.greensys2009.com). For more information contact Dr. Martine Dorais (Doraism@agr.gc.ca) or Dr. André Gosselin (Andre.Gosselin@crh.ulaval.ca), Tel. 1-418-656-2131 Ext. 2068 or Fax 1-418-656-7871.

(ii) Next Plant Canada Meeting. The next CSA/CSHS sponsored Plant Canada meeting will be held in Halifax in 2011. The tentative date is July 18-22, 2011.

Canadian Journal of Plant Science (CJPS):

An international peer-reviewed journal, shared with the Canadian Society of Agronomy (CSA), is the Society's principal scientific publication. The CJPS is published 4 times per year (January, April, July and October) and features sections in Vegetables, Ornamentals and Fruit and Pest Management. An Application of Technology section provides an excellent vehicle to publish results of applied studies in all aspects of horticulture. Review articles are published in all areas of plant science and ensure a continuing high profile for the Journal. CSHS members serve as Associate Editors, and the Editorship of the journal alternates between CSA and CSHS. Why not take advantage of your CSHS membership to obtain special discounts on either paper or electronic Internet subscriptions to CJPS? Electronic-only subscription is a special privilege available only to members and represents a 70% discount on the non-member rate. Consult the [Journal Web site \(http://pubs.nrc-cnrc.gc.ca/aic-journals/cjps.html\)](http://pubs.nrc-cnrc.gc.ca/aic-journals/cjps.html) for further information.

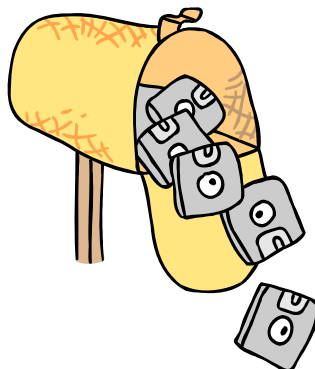
We encourage all active members to do their best recruiting new members. Please send us your: job offers, published papers, posters, presentations, questions, suggestions, nominations and any other relevant information that could be of interest to our members. The CSHS web site and Newsletter are there for you.

Thank you.

Samir Debnath, Ph.D., P.Ag.

Secretary-Treasurer of CSHS

Samir.Debnath@AGR.GC.CA



Please, do not forget to send your information to Denis Charlebois

Name and contact information of potential corporate members
Name and contact information of teaching institutions (college, university)

Contact us

For more information or for membership forms, contact the executive or:

Secretary-Treasurer

Samir Debnath

Agriculture and Agri-Food Canada,

PO Box 39088, 308 Brookfield Road

St John's, NL A1E 5Y7

Samir.Debnath@AGR.GC.CA

http://res2.agr.ca/stjohns/emp/debnath_e.htm

CSHS Annual Meeting/Greensys 2009

June 17 to 19, 2009



Welcome to Québec

The Horticulture Research Center (CRH) of Laval University is happy to welcome you all in Québec City for the Annual meeting of CSHS.

The program is special this year as the Society will join with Greensys 2009, the International Symposium on High Technology for Greenhouse System sponsored by ISHS. Moreover, the CRH takes this unique occasion to organize an horticulture bash and have its annual meeting at the same time. This will be a unique occasion for our students to share with Canadian horticulturalists.

On top of these two days, we will organize a horticulture field trip to display some of our dynamic enterprises involved in innovative horticultural ventures.

We hope you will get involved in this event and will come to Québec City to share with us your horticultural novelties.


Yves Desjardins, Agr., Ph.D.

Local organization



CSHS meets in Québec

Greetings! I would like to welcome you to the CSHS Annual Meeting. CSHS's 2009 Annual Meeting represents a truly integrated opportunity for horticulturalists with the meeting occurring in conjunction with the Greensys 2009 meeting (International Symposium on High Technology for Greenhouse Systems) and also the Annual Meeting of the Horticulture Research Center at Laval University. Drs. Martine Dorais, André Gosselin and other members of the Greensys 2009 organizing committee have assembled a very interesting and innovative program available to CSHS members to participate in while attending our Annual Meeting.

The 2009 CSHS Annual Meeting will be occurring in conjunction with the Annual Meeting of the Horticulture Research Center at Laval University. CSHS is very appreciative of the contributions of Dr. Yves Desjardins and other members of the organizing committee for this meeting. It provides an excellent opportunity to showcase Canadian horticultural research and to meet with researchers from across the world. We hope that you can attend and make the most of this fantastic event!

Sincerely,



President of CSHS



Registration

Registration – Before 27th of March, 2009

Name: _____
Surname: _____
Institution: _____
Address: _____
City: _____ Postal Code _____
Email: _____
Tel: _____

Registration costs:

	Non members	CSHS members	Students
Greensys registration Includes coffee break & lunch	150	150	150
Joint CSHC - CRH Meeting Includes lunch, and BBQ	100*	50	60*
Québec horticulture field trip Includes sugar shack lunch & bus	50	50	50
Total†	300	250	260

* Includes current year (2009) membership to CSHS
† Late fee add 50 \$

Payment

By check to the order of Laval University
Please fill this form and return accompanied by your payment at :
CSHS/CRH annual meeting
Centre de recherche en horticulture
Université Laval, Pavillon de l'Environnement,
2480 boul. Hochelaga
Québec Québec G1V 0A6
Canada

Where ?

The CSHS meeting will be held in two locations:

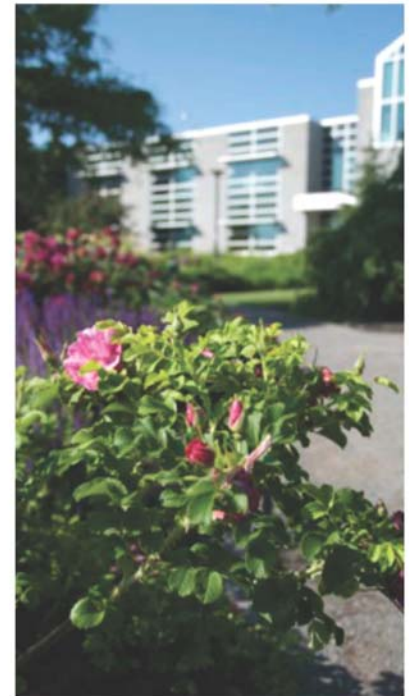
(17 June, 2009)
CSHS/Greensys 2009
Hôtel Loews Le Concorde
1225, Cour du Général-Montcalm
Québec, (Québec) G1R 4W6
Canada
Phone: 1-800-463-5256, www.loewshotels.com

(18 June, 2009)
CSHS/Hort. Research Center
Université Laval, Pavillon de l'Environnement,
2480 boul. Hochelaga
Québec Québec G1V 0A6
Canada
Phone: 418-656-2131 X 6788



CSHS annual meeting / Greensys 2009

June 17 to 19, 2009



Joint CSHS/CRH/Greensys 2009 meeting



Schedule

Dates	Time	Location
June 17	9h00 - Registration All day - Greensys (Scientific & Technical Program, See program beside)	Hotel Loews Le Concorde
June 18	All day Joint CRH / CSHS meeting	U. Laval Environtron bldg
June 18	18h00 CSHS Banquet/ BBQ	U. Laval Van den Herde Botanical Garden
June 19	Québec Horticulture Field Trip Departure from Environtron bldg.	Orleans Island

- * Greenhouse tomato production
- * Strawberry and raspberry production under high tunnels
- * Out of soil hydroponic strawberry production
- * Diner in sugar shack
- * Potato production
- * Vegetable farm

Participants will be back at the Environtron by 18h30

Wednesday, 17 June - Joint CSHS/Greensys Scientific Program

8:20	Keynote speaker Greenhouse Engineering: New technologies and approaches J. I. Montero (Spain)			NCERA Keynote speaker Factor Leaking: Lack of Uniformity in Commercial Greenhouses - and Potential Solutions R. Heins (USA)
9:20				CONTROLLED ENVIRONMENT TECHNOLOGY AND USE (NCERA 101/NE-1017)
9:40	SUSTAINABLE GROWING SYSTEMS Welcome address: B. Ehret	CROP MODELLING - HORTIMODEL Welcome address: H. Burris	GREENHOUSE MANAGEMENT Welcome address: Y. Zheng	CE Instrumentation Technology Showcase
9:50	Invited speaker S. De Pascale (Italy)	Invited speaker J. Dautzat (France)	Invited speaker ???	
10:10	Healthy break			
10:20				Healthy break
10:30	SUSTAINABLE GROWING SYSTEMS Oral session	CROP MODELLING - HORTIMODEL Oral session	GREENHOUSE MANAGEMENT Oral session	CONTROLLED ENVIRONMENT TECHNOLOGY AND USE (NCERA 101/NE-1017) Part I
10:40				Lunch and poster session Business Meetings
11:40				
12:10	Closing address D. Ehret	Closing address E. Heuvelink	Closing address Y. Zheng	
12:20	Lunch and poster session Business Meetings			
13:00				CONTROLLED ENVIRONMENT TECHNOLOGY AND USE (NCERA 101/NE-1017) Part II
13:30	Invited speaker B. Alvanus (Sweden)	ROBOTIC Welcome address S. Pepin	GREENHOUSE MANAGEMENT Oral session	Issues and trends in CE Greenhouse systems and design
13:40		Invited speaker E. Pakleriet (NL)		
14:00	SUSTAINABLE GROWING SYSTEMS Oral session	SENSOR AND ROBOTIC SESSION Oral session		CONTROLLED ENVIRONMENT TECHNOLOGY AND USE (NCERA 101/NE-1017) Part III - Measuring and Reporting Guide Lines for Environmental Parameters in Greenhouse Facilities
14:30				Healthy break
14:50	Healthy break	Healthy break		
15:00			Closing address Y. Zheng	
15:10				CONTROLLED ENVIRONMENT TECHNOLOGY AND USE (NCERA 101/NE-1017) Part III
15:20	SUSTAINABLE GROWING SYSTEMS Oral session	Invited speaker M. Dixon (Canada)		
15:40		SENSOR AND ROBOTIC SESSION Oral session		
17:00	Closing address S. De Pascale	Oral session S. Pepin		Closing address C. Kubota
17:20 - 17:30		Closing address S. Pepin		

Wednesday, 17 June - Joint CSHS/Greensys Technical Program

Energy
An analysis of the agriculture energy situation in Québec, Canada, and elsewhere: *Eco Resource, Québec*
Heating system with bio mass and wind: an example from Ontario (Speaker to be confirmed)
Results of geothermal trials: *Annie Ousey, France*
Potential of closed greenhouse in Canada: *Peter Klapwijk, Gwynedd, The Netherlands*
Sustainable integrated system utilizing biomass: *Martine Dorais, AFPC, Québec*
Heating system utilizing bio mass up date on this combustible: *Khosro, S. OMAFRA, Ontario*
New crops, innovation and trends
Greenhouse production in China: the dragon wakes up: *Xu-Hui, China*
Sustainable production in greenhouses: Who can benefit? *Giuseppe DePascale, Italy*
Structure, covering materials and equipments
Supplementary lighting with LED: a progress update: *Silvia Harroting, The Netherlands*
New products and innovations in greenhouse engineering: *Gene Gaborsek, USA*
Optimizing the control of heating, CO₂ and light in Nordic countries: *Gilles Turcotte, Québec*
A vision of future of greenhouse coverings and structures: (Speaker to be confirmed): *The Netherlands*
Recirculation of nutrient solutions new developments: *Serge Lequitic, France*
Plant-Based Control Holy Grail or Mission impossible: *Peter Klapwijk, Piva*

Thursday, 18 June - Joint CSHS/CRH meeting

9h00 - 12h00
Keynote presentation (Speaker to be announced)
Oral Session
12h00 - 13h30
Lunch
13h30 - 16h00
Oral Session
16h00 - 17h00
CSHS business meeting
17h00 - 18h00
Poster session
18h00 - ...
CSHS / CRH BBQ
Bar service provided by CRH graduate students

Accommodation

Loews Le Concorde Hotel



Although the hotel of 30 floors and 404 rooms rises to a height of 91 meters, you need not go further than the first floor to enjoy the most magnificent vistas. Because of the hotel's vantage point, every single room has an idyllic setting right outside its window. Turn your attention back to the room and you'll see that the hotel's services reach as far as the views.

The restaurants and the lounge not only span the culinary spectrum, they cover the entire city. Start at the top and take the elevator up to a phenomenal rooftop revolving restaurant doubles as an observatory. In the lobby you'll find a relaxing atmosphere where you can review the days events over hors d'oeuvres and a cocktail. Either way, you'll find that Loews Le Concorde Hotel has a flavor all its own.

To guarantee that all attendees enjoy comfortable and convenient accommodations, we have reserved a limited number of rooms at an incredibly low rate at Loews Le Concorde Hotel, the conference venue. Should you wish to benefit from the incredibly low rate, we urge you to reserve your room since the conference rate is guaranteed as long as our room block is not full and reservations will be accepted on a first-come, first-served basis. Reservations must be received prior to May 8, 2009. After this date, reservations will only be accepted based on availability and at the regular rate.

The special rate of \$189, single or double occupancy, is guaranteed upon room availability. The occupancy tax of \$2 per night, the federal tax (GST) of 5% and the provincial tax (PST) of 7.5% must be added to this rate. Taxes are subject to change without notice.

Please reserve early, since June is a peak tourist month in Québec City.

Reservation
Please mention the group code "SYS143" upon reservation in order to benefit from the conference rate.

Reserve now at Loews Le Concorde Hotel (event code: **SYS143**):
• Central Reservations: 1 800 463-5256 (toll free in Canada/USA only);
• Phone: +1 418 647-2222

Loews Le Concorde Hotel
1225 Cours du Général-De Montcalm
Québec City, Québec
G1R 4W6
CANADA

Université Laval student residences

Some rooms in the Université Laval student residences have been reserved so that participants may stay in Québec City at a lower cost.

The Loews Le Concorde Hotel can be reached from Université Laval by bus within approximately 15 minutes.

The special rate of \$49 per night is guaranteed based on room availability and consists of a private room with a shared bathroom, in single occupancy.

There is also a few private rooms with private bathroom available at the rate of \$80 per night in single occupancy.

These rates include breakfast but not the federal sales tax (GST) of 5% and the provincial sales tax (QST) of 7.5%. Taxes are subject to change without notice. The deadline for reserving a room is May 1st.

Room reservations will be accepted on a first-come, first-served basis.

Reserve now at the Université Laval student residences (event code: GreenSys 2009):

* On-line registration: <http://www.residences.ulaval.ca/> (starting in January 2009)
Click on "Summer housing" and then on "Convention Participants"
* By phone: (418) 656-5632



Abstract/Poster format for CSHS Annual Meeting, 2009

Please submit your abstract to: Denis Charlebois, 430 Gouin Blvd., Saint-Jean-sur-Richelieu , Quebec J3B 3E6; Tel: 450-515-2026, Fax: 450-346-7740, Email: Denis.Charlebois@AGR.GC.CA

Format:

Title

(Skip line)

Author(s). Underline the name of the presenting author

Address(es). Use numbers for multiple addresses

(Skip line)

Abstract

Follow this example to present your abstract:

Fruit Phenology of American Elder: Picking the Right Fruits?

Fannie Mathieu^{1,2}, Normand Chevrier¹ and Denis Charlebois²

¹Facul des sciences, Département des sciences biologiques, Université du Québec à Montréal, C.P. 8888, Succursale Centre-ville, Montréal (Québec), H3C 3P8, Canada;

²Agriculture et Agroalimentaire Canada, Centre de recherche et de développement en horticulture, 430, boulevard Gouin, Saint-Jean-sur-Richelieu (Québec), J3B 3E6, Canada

American elder (*Sambucus nigra* L.), a shrub native to North America, shows great promises as a functional food. In order to better understand its phenology, fruit development from blooming to full ripening of the wild type and five cultivars (“Kent”, “Nova”, “Scotia”, “Victoria” and “York”) was studied over a period of two years. Five maturation stages (blooming, veraison, fruit enlargement, development of a red color and development of a purple-black color) were defined based on visual characteristics (shape and coloration). A small but significant difference in the total duration of the maturation process was observed between the two years. The wild type and the cultivar “York” took more time to reach maturity than all the other cultivars tested. The wild type required two more weeks in 2006 than in 2007 while all cultivars only needed two more days. Our results indicate that flowering in the wild type and all tested cultivars, and fruit development in the tested cultivars are rather insensitive to yearly variations in environmental conditions. However, fruit development in the wild type can be adversely affected resulting in a delayed maturation.

Poster format:

Please use the following guidelines to prepare your poster:

Allocated poster space 38"× 54". The poster MUST NOT exceed these dimensions. Use one of the standard size formats (24"× 36" or 36"× 48") or any other size either in landscape or portrait as long as it fits in the allocated space.

Layout suggestion:

Limit the text to about 25 to 50% of the poster space. Use images, photographs and graphs to present your research. Make a banner to display the title, name and affiliation at top-center of the poster.

Generally, the poster should read from left to right and top to bottom. Number the individuals paragraphs, panels, boxes, etc. if needed.

The text should be readable from five feet away. Use a minimum font size of 18 points. Lettering for the title should be large (at least 70-point font). Use all capital letters for the title. Use of the following format/sections:

Title

Author names and affiliation

Abstract

Introduction

Materials and methods

Result/discussion

Conclusions

References

GreenSys 2009

www.greensys2009.com



GreenSys 2009
June 14-19, 2009
Québec City, Canada

A 'première' in North America !
A greenhouse SCIENTIFIC CONGRESS and TECHNICAL PROGRAM : world-renowned experts just for you !

Québec City and Université Laval will host the International Symposium on High Technology for Greenhouse Systems GreenSys 2009 at the Loews Le Concorde Hotel from June 14 to 19.

The meeting will focus on **ENERGY** and **ENVIRONMENT**, but will also deal with sustainability, greenhouse design and management, substrate and hydroponics, controlled environment agriculture including space cultivation, cultural practices and plant protection as well as education and training.

With 4 keynote speakers, 25 invited speakers, 145 oral presentations and posters sessions consisting of more than 150 posters, the scientific committee is confident that GreenSys 2009 will be a very informative and interesting symposium for you.

Visit www.greensys2009.com to find more details on the scientific and the technical programs, the pre and post conference tours as well as the social program that will allow you to discover Québec's culture, fine cuisine and horticultural industry.



Photo : Sophie Pelletier

Themes Energy • Greenhouse system • Robotic and sensors • Crop modelling - HORTIMODEL • CFD • Micro-climate • Controlled Environment Technology and Use - USDA NCERA-101/NE-1035 • Greenhouse management • Fertigation and management of growing media • Plant protection • Sustainable growing systems • Organic crop systems • High tunnels • Product quality • Education and training

Conveners: André Gosselin (Centre de Recherche en Horticulture, Université Laval, Québec, Canada)
Martine Dorais (Agriculture and Agri-Food Canada, Université Laval, Québec, Canada)

Preliminary Scientific Program

MONDAY, JUNE 15, 2009

KEYNOTE SPEAKER:

Worldwide Development of Sustainable Production Systems in Greenhouses

Dr. Michael Parella (UC Davis, Davis, USA)

GREENHOUSE SYSTEM SESSION

PRESIDENTS:

Dr. Gene Giacomelli (CEAC, University of Arizona, Tucson, USA)
Dr. Damien DeHalleux (Soil and Food engineering department, Université Laval, Québec City, Canada)

INVITED SPEAKER:

The development of protected horticultural production in Asia

Dr. Xu Hui (Shenyang Agricultural University, Shenyang, China)

MODELLING-HORTIMODEL SESSION

PRESIDENTS:

Dr. Ep Heuvelink (Horticultural Productions Chains Grp, Wageningen University, The Netherlands)
Dr. Nadia Bertin (Plantes et systèmes de culture horticoles, INRA, Avignon, France)

INVITED SPEAKER:

The Use of Crop Models, Genotype x Environment Interactions to Aid Crop Management

Dr. Gerrit Hoogenboom (Biological and Agricultural Engineering, University of Georgia, Griffin, USA)

HIGH TUNNEL SESSION

PRESIDENT:

Dr. Chris Wien (Department of Fruit and Vegetable Science, Cornell University, Ithaca, USA)

INVITED SPEAKER:

High Tunnels for the Production of Vegetables, Small Fruits and Flowers

Dr. Bill Lamont (Department of Horticulture, Penn State University, USA)

FERTIGATION AND GROWING MEDIA MANAGEMENT SESSION

PRESIDENTS:

Dr. Jean Caron (Soil and Food Engineering Department, Université Laval, Québec City, Canada)
Dr. Mike Nichols (INR, Massey University, Palmerston North, New Zealand)

INVITED SPEAKER:

Irrigation and Aeration Management in Different Growing Media

Dr. Jean Caron (Soil and Food Engineering Department, Université Laval, Québec City, Canada)

PLANT PROTECTION SESSION

PRESIDENTS:

Dr. Nicole Benhamou (Plant Science Department, Université Laval, Québec City, Canada)
Dr. Jacques Brodeur (IRBV, Université de Montréal, Montréal, Canada)

INVITED SPEAKERS:

Greenhouse Climate: An Important Consideration when Developing Pest Management Programs for Greenhouse Crops
Dr. Les Shipp (Agriculture and Agri-Food Canada, Harrow, Canada)

Recent Advances in Disease Control of Soilless Media-grown Plants Using Suppressive Composts

Dr. Michael Raviv (Department of Environmental Horticulture, Newe Ya'ar Research Center, Ramat Yishay, Israel)

KEYNOTE SPEAKER:

Energy Saving: From Engineering to Crop Management

Dr. Anja Dieleman (Wageningen UR Greenhouse Horticulture, Wageningen, The Netherlands)

ENERGY SESSION

PRESIDENTS:

Dr. Silke Hemming (Wageningen UR Greenhouse Horticulture, Wageningen, The Netherlands)
Dr. Sadanori Sase (National Institute for Rural Engineering, Tsukuba, Japan)

INVITED SPEAKERS:

Reducing Carbon Emissions from Greenhouse Production Through the Use of Temperature Integration and Alternative Sources of Heat

Dr. Steve Adams (Warwick HRI, University of Warwick, Wellesbourne, UK)

Low Energy Greenhouse – a System Approach

Dr. Hans-Juergen Tantau (Institute of Biological Production Systems, Leibniz Universität Hannover, Hannover, Germany)

CFD SESSION

PRESIDENT:

Dr. Thierry Boulard (INRA-URIH, Sophia Antipolis, France)

INVITED SPEAKER:

Advantages and Constraints of Greenhouse CFD Modelling

Dr. Thierry Boulard (INRA-URIH, Sophia Antipolis, France)

GREENHOUSE MANAGEMENT SESSION

PRESIDENT:

Dr. Youbin Zheng (Department of Environmental Biology, University of Guelph, Guelph, Canada)

INVITED SPEAKER:

Dr. Leo Marcelis (Plant Research International, Wageningen, The Netherlands)

NEW PRODUCT AND QUALITY SESSION

PRESIDENTS:

Dr. Blanche Dancereau (Horticultural Research Centre, Université Laval, Québec City, Canada)
Dr. Hélène Gautier (INRA, Centre d'Avignon, Avignon, France)

INVITED SPEAKERS:

New Crops for Greenhouse production

Dr. Mike Nichols (INR, Massey University, Palmerston North, New Zealand)

Production of plant-made vaccines and bio-pharmaceuticals

Dr. Louis P. Vézina (Médicago, Québec City, Canada)

MICROCLIMATE SESSION

PRESIDENTS:

Dr. Oliver Köner (Plant International Research, WUR Greenhouse Horticulture, The Netherlands)
Dr. Xiuming Hao (Agriculture and Agri-Food Canada, Harrow, Canada)

INVITED SPEAKER:

Dr. Constantinos Kittas (Department of Agriculture, University of Thessaly, Magnisia, Greece)

ORGANIC CROP SESSION

PRESIDENT:

Dr. Yüksel Tüzel (Ege University, Bornova-Izmir, Turkey)

INVITED SPEAKER:

Problems of Organic Greenhouse Farming Regarding the Root Environment

Wim Voogt (Applied Plant Research, WUR Greenhouse Horticulture, The Netherlands)

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Preliminary Technical Program

WEDNESDAY, JUNE 17, 2009

Energy

An analysis of the agriculture energy situation in Québec, Canada and elsewhere
Eco Ressource, Québec

Heating system with biomass and wind: an example in Ontario
(Speaker to be confirmed)

Results of geothermal trials
Ariane Grisey, France

Potential of closed greenhouse in Canada
Peter Klapwijk, GreenQ, The Netherlands

Sustainable integrated system utilizing biomass
Martine Dorais, AAFC, Québec

Heating system-utilizing biomass: update on this combustible
Khosla, S., OMAFRA, Ontario

New crops, Innovation and trends

Greenhouse production in China: the dragon wakes up
Xu Hui, China

Sustainable production in greenhouses: Who can benefit?
Stefania DePascale, Italy

Structure, covering materials and equipments

Supplementary lighting with LED; a progress update
Silke Hemming, The Netherlands

New products and innovations in greenhouse engineering
Gene Giacomelli, USA

Optimizing the control of heating, CO₂ and light in Nordic countries
Gilles Turcotte, Québec

A vision of future of greenhouse coverings and structures
(Speaker to be confirmed, The Netherlands)

Recirculation of nutrient solutions: new developments
Serge Lequillec, France

Plant-Based Control: Holy Grail or Mission impossible
Peter Kamp, Priva

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THURSDAY, JUNE 18, 2009

Floriculture

Structure, covering materials and equipments

Flower production in high tunnels
Chris Wien, Cornell University, USA

The labor challenges in floriculture and what to do
Albert Grims, Ontario

New crops, Innovation and trends

The present trends and future packaging in Floriculture
Michel Sénécal, Québec

Cool growing spring crops or how to lower production costs
Jack Williams, USA

Genetic selection criteria's in floriculture; what will flowers resemble in the future
Will Healy, USA

New Plants in 2010 - as seen at California Pack Trial
(Speaker to be confirmed)

Production

New technologies in floriculture production
Royal Heins, USA

Phytosanitary control

Biological control of greenhouse pests: Keys to success
D.A. Demers, Bio-best

Vegetable

Energy

Tomato and fish production in the greenhouse
Peter Klapwijk, GreenQ, The Netherlands

New crops, Innovation and trends

Greenhouse development in Mexico
Hector Gallagos, Mexico

Greenhouse production in Ontario
Dean Thiessen, Ontario

Hydroponic lettuce production: a world vision
Luc Desrochers, Hydronov inc.

Growing strawberries and raspberries in greenhouses
Kris Goen, Belgium

Lighting of pepper production
Ep Heuvelink, The Netherlands

Biological production of vegetables
Wim Voogt, The Netherlands

Phytosanitary control

Greenhouse production in USA: Importance of bio-safety
(Speaker to be determined, USA)

Production

Producing 150 or 500 fruit/m²/yr: from the lab to reality (Scandinavian system)
Timo Helle, Finlande

New techniques in vegetable production
Kris Goen, Belgium

Plant Canada

The Federation of Canadian Plant Science Societies

Purposes

To organize and sponsor regular, effective scientific meetings and workshops under a national umbrella for plant science and related disciplines in Canada

To operate and maintain a strong communication network among Member Societies and their individual members

To be a strong and effective force for public education and advocacy in plant and related sciences

How to Join Plant Canada

Plant Canada (The Federation of Canadian Plant Science Societies) is made up of member societies, not individual scientists. Any society wishing to join this federation should contact the current President of the Board of Directors: Khanizadehs@agr.gc.ca

Board of Directors

The Plant Canada Board of Directors is made up of a president, secretary, treasurer, and two representatives from each of the member societies.

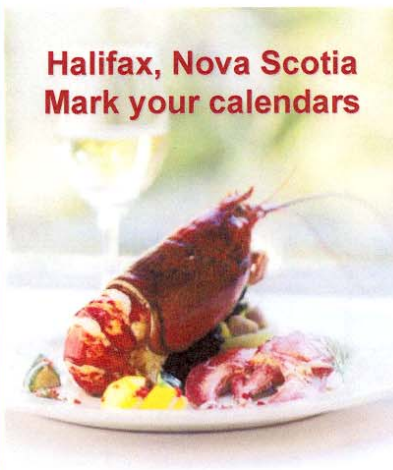
Members

- ✓ Canadian Botanical Association
- ✓ Canadian Society of Plant Physiologists
- ✓ Canadian Phytopathological Society
- ✓ Canadian Weed Science Society
- ✓ Canadian Society of Agronomy
- ✓ Canadian Society of Horticultural Science



www.plantcanada.ca

Halifax, Nova Scotia
Mark your calendars



Next Plant Canada Conference - (for all member societies) Summer 2011

Dear Colleague,

On behalf of the Organising Committee it is our pleasure to invite you to attend the Plant Canada meeting in Halifax during the summer of 2011. The meeting will be held in a first class conference environment while providing participants with easy access to the many entertainment options of this city including the historic waterfront, museums, galleries, shopping, dining and nightlife. In short we are hoping to entice you to participate in a meeting with excellent multidisciplinary science, and to also possibly set aside time for rest and relaxation in the region. Nova Scotia is known as one of the best vacation destinations in Canada! We look forward to seeing you in Halifax where Maritime hospitality is guaranteed!

Yousef A. Papadopoulos, Conference Co-Chair & Chairperson of the Organizing Committee
David Percival, Conference Co-Chair
Shahrokh Khanizadeh, Plant Canada President

Board of Directors

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(CSHS past president)
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See above

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Dr. Shahrokh Khanizadeh (CSHS past president) See above

Tentative date: July 18-22, 2011

GhIH/CSHS Dry Season Vegetable Project

Update on the activities of the GhIH/CSHS Dry Season Vegetable Project

As CSHS members are aware from periodic updates in this newsletter, the Canadian Society of Horticultural Science continues to partner with the Ghana Institute of Horticulturists (GhIH) on the Dry Season Vegetable Project. The project management team in Ghana reported in late 2008 on the year's activities. The project was extremely active.

The project worked toward its goal of capacity building within GhIH:

- The GhIH boasts a very involved student membership with six student groups. Groups participated in tours as diverse as visiting an ornamental nursery and a visit and lecture on vegetables in diet at an antenatal clinic for expectant mothers. One student group also participated in the celebration of World Food Day, organised by Food Security Advocacy Network (FoodSPAN) Ghana, with the theme “The EU-Africa Economic Partnership Agreement: its Impact on Developing Economies and Agriculture”.
- The project also supports efforts for the GhIH to collaborate with another parallel project, The Ghana Society for Animal Production (GSAP) Project, which is funded via CIDA along with the GhIH/CSHS Project under the Agricultural Institute of Canada's International Twinning Partnership Program. Dry Season Vegetable Project members participated in a collaborative meeting with GSAP looking at ways to integrate livestock production into the vegetable project sites.
- GhIH held a National Public Lecture in April 2008, entitled “The Potentials of Moringa: The Miracle Tree. Held in Kumasi, the lecture was attended by more than 200 participants.
- In September 2008, the GhIH held its 9th AGM and conference in Accra. The theme was “Achieving Middle Income Status in Ghana: The Role of the Horticultural Industry in the Millennium Challenge Account (MCA)”. Over 200 people attended, and were treated to a symposium with 32 scientific papers.
- A sixth volume of the Ghana Journal of Horticulture was published as well.

Activities in the farming communities were expanded:

- New radio program segments were produced and broadcast to farmers on subjects such as producing compost, making neem extracts and other technologies, and surveys confirmed that farmers are listening and applying the knowledge in their farming practice.

- Farmer Field Schools were held, training more farmers in sustainable vegetable production practices. This time, the field schools also introduced propagation methods of orange fleshed sweet potato.
- The project distributed mango tree seedlings to the community farm sites. It is hoped that mango, a drought-resistant tree that will bear valuable fruit may protect the sites from fires set to capture game. Communities will likely take more care not to set fires where they may go out of control and burn the vegetable gardens. Communities welcomed the idea and planted and cared for the seedlings, though some were lost in the catastrophic floods that hit Ghana.
- GhIH has been given a portion of an irrigated site at a university for vegetable germplasm multiplication. The farmers can maintain their seed stock outside the production areas adding protection against floods and droughts
- Multiplication of orange flesh sweet potato is being carried out at Karni, Babile and Busa farming sites. Tubers from the initial stock were harvested in November. At Karni, vines are being multiplied for the four water user groups (the blind, the physically challenged, the women group and the regular farmers). Unfortunately, the multiplication efforts suffered a setback due to the floods. Nandom lost everything and Babile has only a small plot left to harvest in November.



Plate 1: Mrs. Idun delivering a lecture on vegetables at an antenatal clinic for pregnant women.



Plate 2: A large and attentive audience crowds the room for the scientific symposium held with the 9th Annual General Meeting in Accra.

Photo credits: Patrick Kumah

Devastating drought:

For the second year running, northern Ghana was hit by devastating climatic changes. In spring, the Upper West Region experienced very severe droughts that resulted in the drying out of many dug outs and wells. This prevented farmers from planting early. Those who planted lost everything to the droughts.

Devastating floods:

In July to September, the region was hit by floods. This time, the Upper West Region was worst hit. At Babile, the community's only dam broke and water gushed out uncontrollably destroying farms and

hopes while the farmers looked on helplessly. Piina dam, the biggest of all the five dams, had virtually no water left and has to be reconstructed. Although the land area affected in the project's communities seem small by Canadian standards, the number of people depending on the food produced on these plots is high.

Over 26 (10 female and 16 male) farmers at Babile, with average dependence of 5 people each, lost at least ¼ an acre to the floods. These farmers cropped mainly maize in the rainy season. In Busa 14 female farmers and 12 male farmers, with average dependence of 7 each, lost 4.5 acres in total to the floods. These farmers cropped pepper, potatoes, maize, rice, garden eggs, okra and local leafy vegetables. In Karni, 189 female and 16 male farmers were affected. Total land affected was 20 acres. Crops affected include maize, garden eggs, and pepper.



Plate 3: Broken dam at Babile



Plate 4: Broken Dam at Piina

Photo credits: Abubakari A. Halim and Gustav Mahunu

Future activities:

The activities toward building capacity of the GhIH and developing dry season vegetable crop production continue. In addition, two Canadian and two Ghanaian project management team members are making plans to attend the International Partner's Meeting (IPM), which brings together members from all of AIC's International Twinning Partnership Projects. The IPM will take place in July in Sri Lanka.

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Canada E4S 2J2
Josée.Owen@AGR.GC.CA

Invitation

✧ Invitation ✧

You are cordially invited to attend the Rhododendrons Stamp Unveiling Ceremony in Kentville, NS.

On Friday, March 13, 2009 at 11 a.m.
Atlantic Food & Horticulture Research Centre
32 Main St.
Kentville, NS, B4N 1J5

Please RSVP on or before March 11 to Geneviève Latour at 902.494.4074 or genevieve.latour@canadapost.ca

Vous êtes cordialement invités à la cérémonie dévoilant le timbre consacré aux rhododendrons à Kentville, N.-É.

Le vendredi 13 mars 2009 à 11 h
Centre de recherches de l'Atlantique sur les aliments et l'horticulture
32 rue Main
Kentville, N.-É., B4N 1J5

Veillez confirmer votre présence avant le 11 mars auprès de Geneviève Latour au 902.494.4074 ou par courriel à genevieve.latour@canadapost.ca

