

CSA-CSHS-CCA-AIC Saskatoon 2012

The conference venue is the University of Saskatchewan Campus, Saskatoon

Monday July 16 PRE-CONFERENCE ACTIVITIES and MONDAY TOURS

Morning Tour	Time	Tour and Information
Potash Mine	7am-1 pm	<p style="text-align: center;">Potash Mine tour</p> <p>We have 20 tickets to tour a local potash mine. The tour will have a pickup of approx 7am outside the Parktown Hotel (Spadina Cres, downtown Saskatoon), followed by a 7.15 am pickup outside the Agriculture Building (U of SK, 51 Campus Drive), and we will take you to a local area potash mine for an underground tour and tour of the mill. Tourees need to be registered via the online registration system. The tour includes a bag lunch and beverage for the return journey, and you will arrive back in Saskatoon between 1 and 1.30 pm. Wear long pants, boots (sturdy shoes, not sandals), avoid jewelry and rings. The mine is ventilated, about 26 degrees Celcius, but there is dust where the mining takes place. The mine provides flashlights, ear protection and safety glasses, although you are welcome to bring your own. Bring your camera.</p>
Meetings		
CSA Executive	7-8.30 pm	Room 4D27, Agriculture Building

Afternoon Tours	Time	Tour and Information
1:30 pm Parktown Hotel pickup (Spadina Cres), 1:45 pm Agriculture Building pickup (north side of Agric building entrance on Campus Drive, facing the vet college and the metal horse sculpture)		
Campus A	1:30 – 5.00 pm	Tour A: Canadian Light Source (synchrotron), Agriculture Greenhouses, Horticulture science plots, Patterson Gardens
Campus B	1:30 – 5.00 pm	Tour B: Grains Innovation Lab (malting, baking, milling labs), Agriculture and Agri-Food Canada Research Farm (mustard, canola and camelina breeding programs), Kernen Farm and Kernen Prairie
Campus C	1:30 – 5.00 pm	Tour C: Phytotron, Plant Biotechnology Institute-National Research Council, Plant Gene Resources (Agriculture and Agri-Food Canada)
Registration	4.30-7 pm	First floor of Geology Building (Natural Sciences Museum Atrium), by the dinosaurs (access via 2 nd floor passenger walkway in Agriculture Building, access via the central bowl (lawn) on campus, access via Science Place cul-de-sac close to Agriculture Building)
Reception Wine and cheese	4.30-7 pm	First floor of Geology Building (Natural Sciences Museum Atrium), by the dinosaurs
Dinner		Dinner on your own

Thursday July 19 CCA /CSA FIELD TOUR – cancelled

**Tuesday July 17 PLENARY 1: ADAPTING CROPS TO CHANGE,
PLENARY 2: TECHNOLOGY TRANSFER FOR THE 21ST CENTURY on next page**

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Tuesday July 17

CONFERENCE PLENARY SESSIONS

REGISTRATION 8:00 am to 12:00 pm - outside Neatby Timlin Theatre, room 241 Arts Tower

PLENARY 1: ADAPTING CROPS TO CHANGE 8:35 am – 12:00 pm Neatby Timlin Theatre
Session Chair: Malcolm Morrison (CSA President)

PL 1	Time	Title	Presenter
PL 1	8:35 - 9:00 am	Welcome and opening remarks	Rigas Karamanos, Conference chair Alanna Koch, Deputy Minister, Saskatchewan Ministry of Agriculture Dean Mary Buhr, College of Agriculture and Bioresources, U of SK
PL 1.1	9:00 - 9:45	Adapting Cropping Systems to Change from a Historical Perspective	Thomas Sinclair
PL 1.2	9:45 - 10:30	Pressures on wheat to produce safe, nutritious, and affordable quantities at sustainable profitable prices for producers	Ron DePauw
Break	10:30 - 10:50 am		
PL 1.3	10:50 - 11:35	Adapting to change - a land perspective	Henry Janzen
	11:35 - 12:00 pm	Panel & Open Questions	
Lunch	12:00-1:15 pm	Marquis Hall (2nd floor)	

PLENARY 2: TECHNOLOGY TRANSFER FOR THE 21ST CENTURY 1:15 pm – 5:30 pm
Session Chair: Thom Weir (CCA President) Neatby Timlin Theatre, 241 Arts

PL 1	Time	Title and Presenter	
PL 2.1	1:15 - 2:00	Getting information in the future – a producers perspective Peter Gredig	
PL 2.2	2:00 - 2:45	Extending agronomic information in the future - an industry perspective Jay Whetter	
Break	2:45 - 3:00 pm		
		Session I – Arts 217 Crop Development into the Future Session Chair: Al Scholz (AIC)	Session II - Neatby Timlin Theatre, 241 Media Tools and Extension for the Future Session Chair: Rigas Karamanos (CSA)
A1.1	3:00-3:30	Global Scientific Collaboration on Technology Transfer to Increase Food Security – Thomas Beach	A2.1 Strengthening Communications with Emerging Digital Tools – Dan Myers & Frank Harrington
A1.2	3:30-4:00	<i>Brassica carinata</i> – Steven Fabijanski	A2.2 Print based media into the future – Bruce Barker
A1.3	4:00-4:30	<i>Camelina</i> – Jack Grushcow	A2.3 Communicating Science to the Farm Gate: Challenges and Opportunities...– Guy Lafond
A1.4	4:30-5:00	Adapting Crops to Change – Marian Stypa	A2.4 Technology transfer and extension – Sherrilyn Phelps
A1.5	5:00-5:30		A2.5 Collecting science and delivering to clients – Robert Saik
Posters	4:30-6:30 pm	Poster Sessions 1 and 2 (Posters # 1 – 20) Kenderdine Gallery, C/D Wing, Agriculture Building	
AIC	5:30-7:00 pm	AIC Annual General Meeting (Everyone welcome, food included) room 2C71 Agriculture	
Student BBQ	6:30 pm - late	Student BBQ at Louis' (on campus)	
Dinner		Dinner on your own	

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Wednesday July 18

REGISTRATION 8:00 - 10:30 am - main floor Agriculture Building atrium (51 Campus Drive)

CANADIAN SOCIETY OF AGRONOMY (CSA) SESSIONS B1, B2, B3

Session B1: CSA & student competition 8:00 am – 10:00 am Agric room 2E25

Session Chair: Jane King (CSA)

B1	Time	Title	Presenter
B1.1	8:00-8:15	The effect of manure from cattle fed dried distillers grains with solubles (DDGS) on barley and camelina yield and their nitrogen uptake under controlled greenhouse conditions	Yang Luo
B1.2	8:15-8:30	Effect of compost source soil type on canola and pea under controlled greenhouse conditions	Yang Luo
B1.3	8:30-8:45	Bloat incidence in cattle grazing alfalfa/sainfoin mixed pastures with new and old sainfoin populations	Edmund Sottie (Student)
B1.4	8:45-9:00	Nitrogen fixation and transfer from red clover (<i>Trifolium pratense</i> L.) cultivars to companion bluegrass (<i>Poa pratensis</i> L.) under field conditions	Malinda Thilakarathna (Student)
B1.5	9:00-9:15	Micro-Farming- an amazing opportunity to feed the world	JessyMarie Hawkes (Student)
B1.6	9:15-9:30	Manipulating crop canopy architecture to manage <i>Mycosphaerella pinodes</i> blight in field pea	Lena Syrovoy (Student)
B1.7	9:30-9:45	Weed Dynamics under Changing Cropping Practices in the Canadian Prairies	Dilshan Benaragama (Student)
B1.8	9:45-10:00	Assessing crop yield on the Canadian Prairies under a changing climate using the FAO AquaCrop model	Manasah S. Mkhabela
Break	10:00 - 10:30 am		

Session B2: CSA Student competition 10:30 am - 12:00 pm Agric room 1E85

Session Chair: Gavin Humphreys (CSA)

B2	Time	Title	Presenter
B2.1	10:30-10:45	Improvement of crop production and ecosystem sustainability using soil microorganisms. Progress, problems and perspectives.	Ines E. Garcia de Salamone
B2.2	10:45-11:00	Fungal endophyte symbiosis facilitates wheat adaptation to heat and drought	Michelle Hubbard (Student)
B2.3	11:00-11:15	AFLP variation in <i>Puccinellia nattalliana</i>	Yining Liu (Student)
B2.4	11:15-11:30	Winter-Hardy Spring Wheat Breeding: Analysis of Winter x Spring Wheat Germplasm and the Development of Selection Tools	Jamie Larsen (Student)
B2.5	11:30-11:45	Profiling and association mapping of a lentil core collection for nine mineral elements	Mike Fedoruk (Student)
B2.6	11:45-12:00	Single Nucleotide Polymorphism in Pea Recombinant Inbred Lines	Arun Shunmugam (Student)
Lunch	12:00-1:30 pm	CSA annual meeting room 1E85	

Session B3: CSA Borlaug Symposium on next page

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Wednesday July 18

Session B3: CSA Borlaug Symposium "Plant Breeding 150 years after Mendel"

Session Chair: Shabtai Bittman (CSA)

1:30 pm - 3:00 pm Agric 2E25

B3	Time	Title	Presenter
B3.1	1:30-2:00	Expansion of winter wheat production in western Canada: An experiment in crop adaptation.	Brian Fowler
B3.2	2:00-2:30	Transfer of technology to the field: Tools to Enhance Development of Field Ready Wheat Cultivars	Curtis Pozniak
B3.3	2:30-3:00	Translational Phenomics from the Pot to the Paddock	Robert Furbank
Break	3:00-3:30		
B3.4	3:30-3:50	Improving high-throughput 2D and 3D phenotyping of complete crop plants with state-of-the-art computer vision techniques	Stefan Schwartz
B3.5	3:50-4:10	Winter dicot crops as an adaptation to climate change: The Montana experience	Perry Miller
B3.6	4:10-4:30	Spring wheat genotypes differentially alter soil microbial communities and wheat breadmaking quality in organic and conventional systems. CJPS 2011 Best Paper presentation	Alison Nelson
Posters	4:30-6:30 pm	Poster Sessions 3 and 4 (Posters # 21 – 40) Kenderdine Gallery, C/D Wing, Agriculture Building	
BANQUET	7:00-9:00 pm	Marquis Hall (2nd floor)	

CANADIAN SOCIETY OF HORTICULTURAL SCIENCE (CSHS) SESSIONS C1, C2, C3

Wednesday July 18 Session C1: CSHS & student competition

Session Chair: Samir Debnath (CSHS President)

8:15 am - 10:00 am Agric room 1E85

C1	Time	Title	Presenter
C1.1	8:15-8:30	Studies on establishing wild blueberry ecotypes from Northwestern Ontario	Tarlok Sahota
C1.2	8:30-8:45	Morphology, phenolic content & antioxidant capacity of lowbush blueberry as affected by in vitro and ex vitro propagation methods	Juran Goyali (Student)
C1.3	8:45-9:00	The fruit ripening process of <i>Lonicera caerulea</i> L., new metabolites and old favorites.	James Dawson (Student)
C1.4	9:00-9:15	Flower Removal of Organic Blackcurrant (<i>Ribes nigrum</i> L.) to Increase Bush Growth and Yield During Establishment	David Hobson (Student)
C1.5	9:15-9:30	Temperature-Mediated Cell Wall Alterations and Its Roles in Freezing Avoidance and Resistance in <i>Allium fistulosum</i> L.	Jun Liu (Student)
C1.6	9:30-9:45	Drought stress in potato plants	Pankaj Banik (Student)
C1.7	9:45-10:00	Phosphorus Management in Polder Vegetable Production	Deanna Nemeth
Break	10:00-10:30 am		

Session C2: CSHS Mini-Symposium: Biocontrol Methods

Session Chair: Shahrokh Khanizadeh (CSHS)

10:30 am - 12:30 pm Agric room 2E25

C2	Time	Title	Presenter
C2.1	10:30-11:00	Biopesticides in Agriculture: Can science meet societal demands for greener food production in the 21st Century?	Karen Baily
C2.2	11:00-11:30	New Mechanisms and Applications for Plant Secondary Metabolites and non-glandular Trichomes	Margaret Gruber
C2.3	11:30-12:00	Biological Control of Arthropods in Controlled Environments	Ken Fry
C2.4	12:00-12:30	Plant-derived essential oils as an alternative approach to managing post-harvest disease and quality problems	Karen Tanino & Doug Waterer
Lunch	12:30-1:30 pm	CSHS annual meeting room 1E80	

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Wednesday July 18 Session C3: CSHS Mini-Symposium: Northern Greenhouse 3:30 pm - 5:00 pm

Sponsor: International Centre for Northern Governance and Development Agric room 1E 80

Session Chair: Heather Exner-Pirot (International Centre for Northern Governance and Development)

C3	Time	Title	Presenter
C3.1	3:30-4:00	Innovations in agroforestry willow systems for environmental sustainability and bioenergy purposes	Raju Soolanayakanahally
C3.2	4:00-4:30	Aquaponics – a New Approach to Sustainable Food Production	Nick Savidov
C3.3	4:30-5:00	Commercial Greenhouse production of vegetable crops from Ontario to Mexico and now Alberta	John Zhang
Posters	4:30-6:30	Poster Sessions 3 and 4 (Posters # 24 – 42) Kenderdine Gallery, C/D Wing, Agriculture Building	
BANQUET	7:00-9:00 pm	Marquis Hall	

Thursday July 19

REGISTRATION 8:00 am to 10:30 am---main floor of the Agriculture Building atrium (51 Campus Drive)

CANADIAN SOCIETY OF AGRONOMY (CSA) SESSION D1

Thursday July 19

Session D1: CSA

8:30 am - 10:00 am

Agric room 1E85

Session Chair: Hossein Zakeri (CSA) and Sally Vail (CSA)

D1	Time	Title	Presenter
D1.1	8:30-8:50	Climate and photoperiod influence soybean cultivar adaptation in Manitoba and Ontario	Malcolm Morrison
D1.2	8:50-9:10	A promising variety of <i>Camelina sativa</i> L. Crantz Line CDI007	Yunfei Jiang
D1.3	9:10-9:30	Managing Crop Nutrition in a Changing Climate	Tom Bruulsema
D1.4	9:30-9:50	Effect of sources and times of N application on timothy and bromegrass	Tarlok Sahota
D1.5	9:50-10:10	Late-maturing orchardgrass varieties and reduced harvest frequency to increase home-grown feed production and reduce the need for feed imports on BC dairy farms	Shabtai Bittman
Break	10:10 - 10:30 am		
D1.6	10:30-10:50	Effect of mycorrhizal fungi on conventional and organic wheat varieties in north western Ontario	Tarlok Sahota
D1.7	10:50-11:10	Canada's Organic Science Cluster : overview and planning for the future.	Valerie Gravel
D1.8	11:10-11:30	Evaluating Canola Genotypes and Harvest Methods to Reduce Seedbank Inputs and Longevity Pest Management Student presentation (2011)	Teketel Haile
D1.9	11:30-11:50	Determining the Mechanism of Glyphosate Resistance in Giant Ragweed in Ontario Pest Management Student presentation (2010)	Amanda Greene
D1.10	11:50	Concluding remarks	
		Conference ends for CSA Lunch on own Marquis Hall	

Session E: Joint CSHS/North American fruit Explorers (NAFEX) on next page

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Thursday July 19

Joint CSHS and North American Fruit Explorers (NAFEX)

REGISTRATION 8:00 am to 10:30 am---main floor of the Agriculture Building atrium (51 Campus Drive)

Session E: CSHS-NAFEX

8:30 am – 4:45 pm

Agric room 2E25

Session Chair: Bob Bors (CSHS, NAFEX)

E	Time	Title	Presenter
E1.1	8:30-9:00 am	Welcome, Introductions and U of S Fruit Breeding Program Overview	Bob Bors
E1.2	9:00-9:45 am	Russian Fruits	Jim Gilbert
E1.3	9:45-10:15 am	Preservation of Fruit Genetic Resources at the Vavilov Institute	Artem Sorokin
Break	10:15-10:30 am		
		Session A – room 2E25	Session B – room 1E80
E2.1	10:30 - 10:50 am	Side Row Mechanical Harvesting- A Prairie Solution - Ellen Sawchuk	Resveratrol Production Potential among <i>Vitis riparia</i> hybrids - Tyler Kaban
E2.2	10:50-11:10 am	Seabuckthorn Breeding and Research - Bill Schroeder	Molecular Markers for Genetic Fidelity during <i>in vitro</i> propagation of Berry Crops - Samir Debnath
E2.3	11:10-11:30 am	Growing Dwarf Sour Cherries - Bob Bors	Indoor Low Light Tolerant Citrus for the Home Environment---31 years of Breeding - M.P.M. Nair
E2.4	11:30-12:00 pm	Saskatoon Berry Basics - Rob Spencer	Growth and Development of Raspberry as affected by <i>in vitro</i> and <i>ex vitro</i> Propagation Methods - Samir Debnath
Lunch	12:00-1:30 pm	Marquis Buffeteria (2nd Floor)	
E	Time	Presentation 2E25	Presentation 1E80
	1:30-2:00 pm	Cold Hardy Quince as Dwarfing Pear Rootstock - Joseph Postman	Fruit Tree Breeding and Development in Unity, Saskatchewan - Jim Coutts
	2:00-2:30 pm	Recent Advances in growing Apricots in the North - Bob Purvis	Fruit Wine Making 101 - Cedric Gillot
	2:30-3:00 pm	Northern Grape Growing - Tyler Kaban	Apple Cider - Peter Reimer
Break	3:00-3:15 pm		
		Title - room 2E25	Presenter
	3:15-3:45 pm	Apples: Mother Nature's Champion of Diversity	Harry Burton
	3:45-4:15 pm	Collecting Wild Temperate Fruit Samples in Albania	Joseph Postman
	4:15-4:45 pm	Challenges and Advantages of Growing Fruits in Northern Regions	Forrest Scharf
Bus Departure	5:30 pm	Bus leaves Voyageur Place (U of S campus) for the Western Development Museum (WDM) (NAFEX delegates, or other society members with purchased WDM banquet tickets)	
Banquet	6:00-9:00 pm	Brags and Blunders Dinner at the WDM	
Bus Departure	9:00 pm	Bus leaves WDM for Voyageur Crescent, U of S Campus	

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POSTER PRESENTATIONS – Authors present at posters on designated day & time

Kenderdine Gallery area (2nd floor, C/D Wing, Agriculture Building)

Tuesday July 17

Poster Session 1: CSA & CSHS Student Competitions

4:30 pm – 6:30 pm

Number	Title	Presenter
1	Identifying wild and cultivated cranberries and evaluating their relationships using morphology, and EST-PCR and ISSR markers.	Dong An (Student Competition)
2	Characterizing the epigenetic control of gene expression in strawberry (<i>Fragaria vesca</i>)	Jihua Xu (Student Competition)
3	Iron Bioavailability in Low Phytate Pea	Xiaofei Liu (Student Competition)
4	The stability of health-beneficial phytochemicals in asparagus during cooking	Jenna Drinkwater (Student Competition)
5	Fertilization with nitrogen, sulfur and boron to optimize canola nutrition in Quebec	Jinghan Su (Student Competition)
6	Weed Management of Establishing Organic Blackcurrants (<i>Ribes nigrum</i> L.)	David Hobson (Student Competition)
7	Ecophysiology of Cow Cockle (<i>Saponaria vaccaria</i> L.) Germination, a Summer Annual Weed under Domestication	Hema Duddu (Student Competition)
8	Determination of Photoperiod-Sensitivity Phases in Some Selected Chickpea Genotypes	Ketema Abdi (Student Competition)
9	Blue honeysuckle (<i>Lonicera caerulea</i> L.) bud break and flowering phenology in coastal British Columbia	Eric Gerbrandt (Student Competition)
10	Newly developed sainfoin populations perform well in alfalfa pasture	Edmund Sottie (Student competition)
11		Cancelled
	6:30 pm - late Student BBQ at Louis' (on campus)	Hosted by U of SK Grad students

Tuesday July 17

Poster Session 2: CSA

4:30 am – 6:30 pm

Number	Title	Presenter
12		Cancelled
13	Competitiveness of a transgenic rice (CPPO06) resistant to protoporphyrinogen oxidase inhibiting herbicides	Kee Woong Park
14	Flower and fruit abortion due to heat stress in field grown pea	Rosalind Bueckert
15	Effect of seeding rate on spelt production	Denis Pageau
16	Multiple species grass-legume mixtures in semiarid Saskatchewan	Michael Schellenberg
17	Genetic diversity of side-oats grama grass wild populations, source identified variety and selected population as determined by amplified fragment length polymorphism	Bili Biligetu
18	Adapting Lentils (<i>L. culinaris</i>) to Changing Biotic Environments	Abebe Tullu
19	Integrating the building blocks of agronomy and biocontrol into an IPM strategy for wheat stem sawfly.	Brian Beres
20	Identification and quantification of carotenoids in Saskatchewan grown pea and chickpea	Ashokkumar Kaliyaperumal

Wednesday poster sessions 3 and 4 on next page

Posters on board for one day only

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Wednesday July 18

Poster Session 3: CSHS Fruit Science

4:30 pm – 6:30 pm

Kenderdine Gallery area (2nd floor, C/D Wing, Agriculture Building)

Posters on board for one day only

Number	Title	Presenter
21	Seabuckthorn productivity in Northern Quebec	Julie Lajeunesse
22	Haskap: A New Berry Crop with High Antioxidant Capacity	Bob Bors
23	Fruit Yield Performance of Saskatchewan-Sourced Strawberry Crowns for Export - A Fifteen-Year Odyssey	Karen Tanino
24	Influence of Arbuscular Mycorrhizal Fungi and a Root Endophyte on the Biomass and Root Morphology of Selected Strawberry Cultivars under Salt Conditions	Shahrokh Khanizadeh
25	Antifungal activities of essential oils and its commercial formulation against <i>Botrytis cinerea</i>	Shahrokh Khanizadeh
26	LEaDing the way towards more efficient lighting sources in greenhouse and controlled environments	Doug Waterer
7:00-9:00 pm Banquet Marquis Hall (2nd floor)		

Wednesday July 18

Poster Session 4: CSA Adapting Crops to Change

4:30 pm – 6:30 pm

Number	Title	Presenter
27	Seed Dormancy Breakage and Germination: The Role of Biological Stratification and Mycovitality	Xiakun Yuan
28	The benefits of pea crops to subsequent barley	Jane King
29	Temporal dynamics of nitrogen rhizodeposition of field pea	J. Diane Knight
30	The effect of hydrogen production in legume nodules on nitrous oxide emissions	J. Diane Knight
31	Wheat Grain Nutrient Content as Affected by Environment	Thomas Jensen
32	Impact Foliar Fertilization of Canola with a Nitrogen-Zinc Product	Rigas Karamanos
33	Genetic Enhancement of Perennial Cereal Rye for Biomass and Grain	Debbie Beasely
34	<i>In Vitro</i> Fibre Digestibility of Annual Forage from the Field Crop Development Centre	Patricia Juskiw
35	Effect of heat on pea yield and reproductive performance in variety trials.	Rosalind Bueckert
36	Evaluation of Barley Varieties for Forage and Grain Production	Tarlok Sahota
37	Will Foliar Fungicides Increase the Quality and Yield of Oats?	Bill May
38	Pedigrees of Western Canada Spring Wheat Cultivars	Richard Cuthbert
7:00-9:00 pm Banquet Marquis Hall Marquis Hall (2nd floor)		