

NEWSLETTER

BULLETIN

Societé canadienne de science horticole CANADIAN SOCIETY for HORTICULTURAL SCIENCE

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	Past President/Ex-président	Norman Looney, BC

February/février, 2000

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INTRODUCTION

It seems that the first signs of spring are already beckoning to us, another year for a burst of horticultural activity. Be sure to attend the AIC conference in Winnipeg, Manitoba in July. It will be a great event. Work is progressing on IHC 2002.... a word of thanks to the many volunteers!

Albert Liptay CSHS Secretary-Treasurer

PRESIDENT'S CORNER

PRESIDENT'S CORNER Merv Pritchard, President CSHS

Winnipeg Welcomes AIC and CSHS to Agri-Food 2000 - Innovation through Diversity

The upcoming Agri-Food 2000 Conference to be held in Winnipeg July 15-19, 2000, promises to educate and entertain. This year there is a change in the format, a change that will foster the development of closer linkages among related professional groups in Canada. Joining AIC and its affiliated institutes and societies, including the Canadian Society for Horticultural Science, will be the Canadian Institute of Food Science and Technology, the Canadian Society of Agricultural Engineering, and the Flax Council of Canada.

The program will consist of several thematic sessions which will take an inter–disciplinary approach to a number of exciting topics. A few of the topics include: Innovation - The key to Optimizing Value from Animal and Food Industry By-products; Food Quality and Safety; Nutraceuticals - Bridging the Gap between Agriculture and Health; and Forecasting Tools for Management.

An inter-disciplinary approach to solving complex research problems is vital to the future of horticulture in Canada. As public funding for education and research continues to decline, the number of horticulturists in Canada dwindles. Collaboration with researchers and educators outside the discipline of horticulture therefore, becomes critical to solve increasingly complex problems. Such collaboration will help to ensure Canada remains an important player in the development, production, and marketing of horticultural products.

In addition, members of CSHS will have the opportunity to present research findings, discuss plans for the International Horticultural Congress in 2002, and share a laugh or two with old friends. The strength and future of the horticulture industry in Canada depends on the members of CSHS. Education of our young people, innovative research, and sharing of ideas by members

of this organization are essential to the well being of citizens in Canada and those beyond our borders. Your participation in the Agri-Food 2000 Conference is vital to ensure a healthy and vibrant organization.

The Conference will be held in downtown Winnipeg within easy reach of the Forks Historical Park, Assiniboine Park, the Winnipeg Art Gallery, and shopping. Festivals and fairs abound in Winnipeg and rural Manitoba. And summers in Friendly Manitoba are simply the best! I look forward to welcoming you to Winnipeg.

IHC 2002

Meeting of the ISHS Board of Directors, Tenerife, Spain, January 21-22, 2000

As President of the IHC, I am also a member of the ISHS Board - the reason being that the Board must stay informed of the progress and problems in organizing this flagship event of the Society. I was very pleased to be able to present a report that dealt almost entirely with recent progress and achievements. Here is a brief summary.

Affiliated or associated societies

We are continuing to have success in attracting other horticultural science-related societies to get involved with the Congress. In recent months we have reached agreements with the American Community Gardening Association and the People Plant Council (USA), both supporting a major Congress colloquium on "Applying the Art and Science of Horticulture to Improving Human Life Quality." The Centre for the Development of Hardy Landscape Plants will support a symposium on breeding ornamental plants. The Interamerican Society for Tropical Horticulture and the International Society of Citriculture will assist us in the development of a program of interest to scientists working with tropical and subtropical crops. At time of writing, we are negotiating with the Potato Association of America. If they decide to join the Congress it will greatly strengthen our hopes of having a major symposium on potatoes. We are also negotiating with the Canadian Greenhouse Conference with the aim of bringing this outstanding exhibition to the Convention Centre on Thursday and Friday of the Congress week. This is just a sampling of the activity in this important area.

Public and private sector funding initiatives

We are encouraged with our progress to date toward obtaining Foundation funding for specific aspects of the Congress program. For example, we are now expecting to get support from the David and Lucille Packard Foundation for bringing in speakers for a symposium on "Horticultural Science in Emerging Economies: Issues, Opportunities and Constraints." I am also in correspondence with the DuPont Foundation, the George Ball Foundation and the Maurice Price Foundation with the aim of receiving support for specific Congress program elements.

Dr. Peter Toivonen is developing a strategy and information brochure to use when attracting corporate support for other symposia and various program events. We have made very good use of the support we have received from the AAFC Agri-Food Trade 2000 program. We are hoping that this program will be extended and every effort will be made to renew this support for expenses that will come in 2001.

The Maseri Florio World Prize for Excellence in Agricultural Research

After many months of negotiation it now appears certain that this prestigious prize (\$100,000 USD) will be awarded at the Opening Ceremony for the Congress. This will attract considerable media interest to our event and will certainly increase the stature of the IHC as an international agricultural science event. We are working with the Advisory Board for this Prize to ensure that the subject for the 2002 award is appropriately related to horticultural science.

Defining/developing the scientific program

Our call for colloquium, symposium and workshop proposals last October resulted in seven applications for colloquia (we have space for 5 or 6) and 24 applications for multi-day symposia (we have space for fewer than 20). These were considered by the Scientific Program Task Force in late January. There are many excellent proposals and all of the colloquia and several symposia will be announced during coming weeks on our web page (**www.ihc2002.org**). Our initiative to host the 1999 meeting of the ISHS Executive Committee has paid off with strong support from ISHS Sections and Commissions in the development of the Congress program. A number of important colloquium and symposium proposals also came from ASHS Research Division Working Groups.

Publishing and distributing the Second Announcement

Drs. Katrine Stewart (Chair, Promotion, Publicity and Public Relations Task Force) and Peter Hicklenton (Chair, Printing and Publications Task Force) are working on the Second Announcement that we hope to print and distribute in April. This document will reach nearly 20,000 potential customers by mail! It will be mailed to all CSHS members, to ASHS members with the ASHS Newsletter, to ISHS members with *Chronica Horticulturae*, and to members of many other national societies for horticultural science by combining the brochure with regular society mailings. With this strategy we hope to reach our most likely customers while keeping our mailing costs to a minimum. Of course this Announcement will also appear on our web site.

As the Congress looms ever larger in our Society's future, there will be more opportunities for CSHS members to get involved. The next full meeting of the Core Organizing Committee for the Congress will be held as part of this year's CSHS meeting in Winnipeg (a part of the AIC Agri-Food 2000 Conference, July 15-19, 2000 at the Winnipeg Convention Centre). Plan now to be there to share your ideas and reveal your interests to our Organizing Committee members.

I fully believe that the success of this Congress will determine the future of our Society, perhaps even influence the future of our profession.

Don't miss this train!

Norm Looney, President XXVI International Horticultural Congress

DR. CALVIN CHONG HONOURED

Calvin Chong is one of four individuals who were recently named Fellows of the Eastern Region on the International Plant Propagators Society at their 49th Annual Meeting in Minneapolis, Minnesota. Election as a Fellow of the IPPS Region is an honour that the region awards in recognition of outstanding contributions to the region and to plant propagation by research, teaching, extension or leadership in plant propagation or the horticulture industry. The other 1999 recipients are Howard Barnes, Dale Deppe and Deborah McCowan.

The International Plant Propagator's Society is a non profit organization of nearly 3000 members organized into nine separate regions around the world. The membership is made up of those with a professional interest in plant propagation from businesses, colleges and universities, botanic gardens and arboreta. The motto of this non-commercial organization is, "To seek and share", knowledge and experience in plant propagation.

Calvin Chong is a Professor at the Horticultural Research Institute of Ontario in Vineland Station, Ontario where his research is dedicated to the nursery industry. His research projects have been instrumental in providing innovation and leadership in all facets of plant propagation and production.

The list of Calvin's significant research accomplishments is extensive. In propagation, he demonstrated that readily available and inexpensive commercial products such as plumbing antifreeze or windshield washer fluid are suitable alternative solvents for root promoting solutions. He has done ground breaking research into waste recycling and composting. His research has demonstrated the benefit of growing media derived from a wide variety of waste byproducts. In shade tree culture, Calvin was the first to introduce and test the in-ground pot-in-pot technique of production.

His research has always been innovative and at the cutting edge of new technologies. He has demonstrated and tested various trickle fertigation systems for use in container and tree culture. He initiated for the first time in Canada, research on a "closed loop, zero runoff" system in nursery container culture. Most recently, he tested and experimented with the new automatic computer controlled fertigation system under outdoor nursery conditions. The record of his contributions to horticulture in general is astonishing.

Over the years Calvin has eagerly and enthusiastically shared his findings with the IPPS Eastern Region. His willingness to present papers and/or posters at the Annual Meetings is well known. He is currently serving on the IPPS Eastern Region Endowment Committee. Calvin has been a member of the IPPS Eastern Region since 1975.

Excerpt from: Horticulture Review, page 21, November, 1999

FRUIT WINE A COMMERCIAL FIRST FOR MANITOBA

Manitoba's first commercially produced wine from Manitoba-grown product has hit the market! A premium grade fruit wine originating in the Killarney-area fruit orchard owned by a Manitoba farm family is being produced from locally grown raspberries. Rigby Orchards, a 14 acre orchard in southern Manitoba, was established in 1987 by Grant Rigby and his father. The grain farm now includes the largest commercial fruit orchard on the Prairies.

The medium sweet and the dry wine from 'Killarney on the Prairies' both have the unmistakable flavour and aroma of raspberry, a bouquet of the Boyne cultivar. The raspberry cultivar was produced at the Morden Research Centre in 1960. Rigby added no sulfites to either version to ensure that his wine could be enjoyed by those severely allergic to sulfites.

The wine produced in Rigby's licensed facility is delivered to the Manitoba Liquor Control Commission and a few specialty wine stores. He continues to work at scaling up production to larger volumes and hopes to produce 5,000 to 20,000 bottles a year at full capacity.

Rigby first began using locally grown raspberries to produce salad dressings, dessert toppings, and wine vinegars. The success of a wine making kit spurred him to develop the technique to produce the high quality wines. His juice-making began after he completed a Master's degree in Food Science at the University of Manitoba, where he devoted his thesis to the development of a processing system for a fresh-aroma, clarified raspberry fruit juice nectar.

Rigby Orchards wine arrives on the scene just as consumer interest in North America in premium fruit wines has begun to grow. There used to be only the odd strawberry wine that might come up from New York, whereas now there's a whole new category springing up.

How well Rigby Orchards wine does in Manitoba remains to be seen, although the Liquor Control Commission officials predict it will do very well. Manitoba is a limited market for this product however. Rigby suspects that the major market for his wine could eventually be elsewhere, such as New York, Minneapolis, or California. And that is why he has spent the time to make a top-quality product - to complete with the best.

(Adapted from The Manitoba Cooperator.)

REMINDER Agri-Food 2000 Conference - The Key to the Future

Winnipeg, Manitoba July 15-19, 2000

Visit the Agri-Food 2000 Web site at <u>www.agrifood2000.mb.ca</u> and bookmark it for future reference.

Opening Reception and Awards: great food and entertainment - Manitoba style!!

Special Invited speakers: A diverse group of speakers are planned to draw the audience to the conference. Couple this with a **Giant Agri-food Industry Showcase and Trade Show** - "**Unlocking the 21st Century**" and you have one great event! We have the Winnipeg convention center booked and ready for all the delegates and industry partners.

Special Social Evening for CSHS: The local committee is planning a unique culinary experience for the society.

- **Technical Sessions** this is where members of CSHS can hear some of the breaking news regarding horticulture research across Canada. We hope to have a large contingent of CSHS members as well as attracting potential new members. Don't forget to submit names of graduate students! Lots of poster space will be available!
- **Special Thematic Sessions** the planning committee has developed a variety of special millennium topics that will help to entice you to join in. Special presentations will be selected from the top researchers from across Canada.
 - 1. Innovation: The key to optimizing value from Animal and Food Industry By-Products
 - 2. Food Quality and Safety
 - 3. Measuring sustainability in the new millennium
 - 4. Incorporating resource information into agricultural decision making
 - 5. Decision support systems for agri-food industry
 - 6. Crop production systems for healthy food and environment
 - 7. Nutraceuticals- Bridging the Gap between Agriculture and Health
 - 8. Distance education and technology transfer
 - 9. Responding to a changing atmosphere-from gate to plate
 - 10. Forecasting tools for management
 - 11. Crop production input and management. Profitability vs technology
 - 12. International Agricultural Development

Proposals for presentations must be received by March 15, 2000 to be considered for inclusion in the Agri-Food 2000 program.

<u>Brief Outline of events for the upcoming meeting</u>

Saturday (evening)

- Opening Reception and Awards Ceremony

Sunday

- Conference Tours

- Sunday Evening - Millennium Feast

Monday

-Plenary Session - "Key to the Future"

- Taste of Manitoba

- Agri-Food Industry Showcase and Trade Show

- Poster sessions

Tuesday

- CSHS session - voluntary papers

- CSHS Banquet - we are working on a special location for a banquet that should be lots of fun and great food.

Wednesday - Special Thematic Sessions - am and pm

Thursday - post conference events

Also remember that there will be a paper/poster competition for students. Please try to have your graduate students attend and present their latest results.

The ISHS team will also be meeting in Winnipeg during the AIC meetings. CSHS is hosting the 2002 ISHS congress in Toronto. Dr. Norm Looney (Congress Chair) should be able to provide you with interesting updates. Lots of great sessions and activities are in the works.

Dr. Campbell G. Davidson CSHS - AIC Planning Committee Manager, AAFC-Morden Research Center **Dr. Merv Pritchard CSHS - President** Director of the School of Agriculture Unit 100-101 Route 100 Morden, MB, R6M 1Y5 204-822-7201 (direct line), 204-822-7209 (fax) 204-822-4471 (general office) cdavidson@em.agr.ca University of Manitoba Winnipeg, MB, R3T 2N2 204-474-9395 (direct line) 204-474-7525 (fax) Merv_Pritchard@UManitoba.ca

OPPORTUNITIES FROM AIC

The following opportunities are benefits from a 1996 agreement between AIC and the Inter-American Institute for Co-operation on Agriculture (IICA) and may be of interest to your members. Please forward this email message to your members or include it in your newsletter.

For more information, contact AIC International Program Coordinator Tom Beach, PAg at iadp@aic.ca or visit the IICA web site at http://www.iicacan.org

INTERNATIONAL WORK EXPERIENCE OPPORTUNITIES FOR YOUNG AGROLOGISTS IICA-Canada's Youth Internship Program proposes to help up to five young Canadian Agrologists develop work experience in technical cooperation, program management and project execution by spending two months at IICA headquarters or participating IICA Offices in the Americas.

OPPORTUNITIES FOR THE AGROLOGIST FARMER

IICA-Canada is offering at least10 partial grants towards developing a cooperative working relationship between Latin American and Caribbean (LAC) and Canadian farmers by allowing selected Canadian farmers to spend up to four weeks in a LAC country.

OPPORTUNITIES FOR CANADIAN SCHOLARS, RESEARCHERS & SPECIALISTS

IICA-Canada's Internship Program in Agricultural Science and Agricultural Research will allow 20 Canadian professors, agricultural researchers and specialists from the public and private sectors, and post-graduate students working on projects in agricultural sciences, to carry out part of their studies or research projects in a LAC country.

NEW INFORMATION AND COMMUNICATION TECHNOLOGIES Post-graduate students interested in pursuing an internship in a LAC country developing multimedia capabilities in agricultural areas, such as developing

web sites, databases, distant education programs, computer training and related subjects are urged to apply for one of three awards being offered by IICA-Canada under its Internship Program on New Information and Communication Technologies. The awards will allow young Canadian specialists to complete up to two months in a LAC agricultural and/or agribusiness association.

Agricultural Institute of Canada Enhancing the profession of agrology and agricultural science Visit our web site at www.aic.ca

13.14.15.16.17.18.181182 UPCOMING EVENTS

March 29-31, 2000 Calgary Zoo's 3rd Horticulture Therapy Conference: "Wellness through the use of Horticulture" Calgary, Alberta Info: Calgary Zoo tel: (403) 232-9322 fax: (403) 261-9091 e-mail: education@calgaryzoo.ab.ca

From:<jody.aylward@nrc.ca>Date:Tue, Feb 8, 2000 1:02 pmSubject:ctn-nat-aff: Nutraceutical 2000

To: ctn-nat-aff@fox.cisti.nrc.ca From: jody.aylward@nrc.ca Subject: Nutraceutical 2000

A message from: Jody Aylward (jody.aylward@nrc.ca), CTN. Nutraceuticals 2000 Conference: Understanding the Production, Process and Business Aspects of Nutraceuticals Battery Hotel, Signal Hill, St. JohnÆs, Newfoundland, Canada March 6 & 7, 2000

Monday March 6, 2000

7:00 û 8:00 am	Registration û Battery Hotel	
Nutraceuticals: The Opportur	ities	
Chair: Stephen Lewis, CEO,	QSL Corp., NF	
8:00 û 8:30 am Dr. John Richards, Agricultur John Lester, President, Newfo	Welcoming Remarks e & Agri-Food Canada, NF oundland and Labrador Horticulture Council, NF	
8:30 û 9:15 am Perspective Penny Mah, Canadian Functio	Emerging Trends in Nutraceuticals: A Canadian & International onal Foods Network, Alberta	
9:15 û10:00 am Building the Sask. Nutraceutical Network: A Potential Model Kelley Fitzpatrick, Sask. Nutraceutical Network, Sask.		
10:00 û 10:30 am (Sponsored by: Agriculture & NF)	Refreshment Break Agri-Foods Canada, Atlantic Cool Climate Crop Research Centre,	
10:30 û 11:15 am Nutraceuticals Sharon Chard, Office of Natu	Natural Health Products Agency: The Regulatory Aspects of ral Health Products, Health Canada, NS	
11:15-12:00 pm Grown Plants	Nutraceutical Potential of Native and Non-native Newfoundland	
Garden Inc., NF	Dr. Wilf Nicholls, Memorial University of Newfoundland, Botanical	
12:00 û 1:30 pm LUNCHEON - Hon. Kevin Alyward or Designate, Dept. of Forest Resources & Agri-Foods, NF (Sponsored by: Department of Forest Resources & Agri-Foods)		
Producing and Processing Nu	traceuticals	
Chair: Ronda Dillon, NRC-IR	AP, Marine Institute, NF	
1:30 - 2:00 pm Dr. Fereidoon Shahidi, Memo	Opportunities from Marine Nutraceuticals orial University of Newfoundland, NF	

2:00 - 2:30 pm Producing Crops Organically û The Certification Process Rupert Jannasch, Atlantic Pasture Research, Nova Scotia Agricultural College, NS 2:30 - 3:15 pmSt. JohnÆs Wort, Fever Few, Echinacea, Valerian and Ginseng: Growing, Harvesting and Storage Tips Robert Roy, Southern Crop Protection and Food Research Centre Agriculture and Agri-Food Canada, Delhi, ON

3:15 û 3:30 pm	Refreshment Break (Sponsored by: Farm Credit Corporation)	
3:30 û 4:00 pm	Overview of Processing Technologies: Solvent Extraction, Super Critical	
Carbon Dioxide, Stean	n Distillation, and Membrane Separations	
Paul Kolodziejczyk, PO	OS Pilot Plant, Sask.	
4:00 û 4:30 pm	Standardization & Product Testing	
Dr. Branka Barl, Sask.	Herb Research Program, University of Saskatchewan, Sask.	
4:30 û 6:30 pm	RECEPTION & Cash Bar	
Nutraceuticals 2000 Co	(Sponsored by: TBA)	
Understanding the Prod	onference:	
AGENDA - DAY 2	duction, Process and Business Aspects of Nutraceuticals	
Tuesday March 7, 200	10	
The Business Aspects of	of Nutraceuticals	
Chair: Roger Jefford, Dept. of Forest Resources & Agri-Foods, NF		
8:30 û 9:00 am	Developing Herbal Medicine û What Ethics Must We Face?	
Dr. John Crellin, Facul	ty of Medicine, Memorial University of Newfoundland, NF	
9:00 û 10:00 am	Brokering and Distribution of Medicinal Crops	
NJ, USA	Joseph Schortz, CEO, Quality Botanicals Ingredients Inc. (QBI),	
10:00 û 10:30 am	Marketing: My Experience	
Harris Pippy, President	, NF & Lab. Federation of Agriculture, NF	
10:30 û 10:45 am Federation of Agricultu	Refreshment Break (Sponsored by: Newfoundland & Labrador ure)	
10:45 û 12:15 pm	Herb Growing & Marketing Globally	
Maureen Rogers, The I	Herb Growing & Marketing Network, Silverspring, PA USA	

12:15 û 12:45 pm	Marketing and Creating A New Product Category Peter Byrne, President, Byrne & Associates, NF		
12:45 û 2:00 pm	Lunch On Own		
Nutraceutical Industry Strategy - Panel Discussion			
Chair: Georgina Queller, Dept. of Forest Resources & Agri-Foods, NF			
Collaboration	Functional Foods and Nutraceuticals: Success Through Strategic lustry Services Branch, Agriculture and Agri-Food Canada, Ottawa,		
2:20 û 3:30 pm Issues Facing the Newfoundland Nutraceutical Industry Robert Trenholm, C-ASD, Marine Institute, St. JohnÆs Hilary Rodriques, Markland Cottage Winery, Whitbourne Hilda Whelan, Kori Farms, Whitbourne John Carter, Mount Scio Farms, St. JohnÆs Dennis Yabsley, Harvest Time Organic Peat Farms			
3:30 û 3:45 pm	Refreshment Break (Sponsored by: TBA)		
3:45 û 4:15 pm	Panel Discussion: Assessing Possible Solutions & Needs		
4:15 û 4:30 pm	Summary and Closing Remarks Stephen Lewis, CEO, QSL Corp., NF		

SPONOSRS (In addition to those listed throughout agenda): National Research Council Industrial Research Assistance Program at the Marine Institute

REGISTRATION FORM

Yes, I would like to register for the:

Nutraceuticals 2000 Conference: Understanding the Production, Process and Business Aspects of Nutraceuticals Battery Hotel, St. JohnÆs, NF March 6 - 7, 2000 NAME :

COMPANY :

ADDRESS :

PHONE : E-MAIL ADDRESS : FAX:

REGISTRATION FEE:

Early Registration - \$75 On or before February 15th, 2000 After February 15th - \$100

Registration fee includes refreshment breaks each day and lunch for day one only. Total Amount of Payment: \$_____

Please Make all Cheques or Money Orders

Payable to: Newfoundland and Labrador Horticulture Council Method of Payment: Cheque Enclosed Money Order Enclosed

Please complete this form and return either by fax at (709)-747-4980, or via e-mail to dena.parsons@nf.sympatico.ca or by mail to:

Newfoundland and Labrador Horticulture Council P.O. Box 251 Mt. Pearl, NF A1N 2C3 709 747 1378

Telephone: 709-747-1378

Accommodations: There has been a block of rooms reserved at the Battery Hotel, at a rate if \$72 single/double plus (HST). When booking please indicate that you are attending this workshop. (Tel:1-800-563-8181; 709-576-0040)

CANADIAN SOCIETY FOR HORTICULTURAL SCIENCE APPLICATION FOR MEMBERSHIP

NAME:		PLEASE CHECK I	DESIRED MEMBERSHIP
ADDRESS:			
		Regular Member	
		Retired Member	
Fax: ()			
E-Mail:		Plant Science (incl.GS	51) \$25.68
UNIVERSITY EDUC	CATION	ISHS	
B.Sc.			
University:			
Year:		Student \$2	25.00
	Total:		
M.Sc.			
University:		Please make cheque	e payable to:
Year:	Canadian Soc		
	Horticulture	Science	
	Mail to: Suit	e 1121	
Ph.D.	141 Laur	rier Av. West	
University:		Ottawa (Ontario)	K1P 5J3
Year:			
	*Graduate stu	udent status must	
	be certified b	у	
	gnature of major	professor	-
	,	CK ALL THAT APPLY	()
Vegetables	Rese		
Fruits	Exter	nsion	
Floriculture	Educ	cation	

	Nursery Crops Turf Plant Protection Post-Harvest Landscaping Economics Breeding & Genetic	machinery Other (spe	lustries stries (seeds, , etc.)		
	Société canadienne de s	cience horticole - Der	nande d'Adhésion		
	Nom: Adresse:			on désirée	
			Membre régulier Étudiant 2e ou 3e cycle Membre retraité	60\$ 20\$	
	1		phytotechnie (incl. TPS)) 25.68\$	
	Éducation Universitaire <u>B. Sc.</u>	;	<u>SISH</u>		
	Université: Année:			65\$ 25\$	
Total					
	<u>M.Sc.</u> Université: Année:		. S.V.P. faire chèque à . Société canadienne de sc Poster à: Suite 1121 141 avenue Lau Ottawa ON, K	urier ouest	cole
	<u>Ph.D.</u> Université: *Les etudiants doivent inclure la signature de Anné: Leur professeur principal:				
	Fruits Floriculture .	Recherche Vulgarisation Enseignement Journalisme			

Post-récolte	Industries des services	
Paysagisme	Industries des intrants (semences	
Économie	engrais, équipement etc)	
Améloration et génétique Autre (spécifier):		

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