19th Review Conference

Presentations on member countries work in agriculture

Dr Ulrich Kuhlmann, Executive Director, Global Operations and presenters from Canada, China, Ghana, Jamaica, Pakistan and Uganda

Agriculture and Agri-Food Canada | Agriculture et Agroalimentaire Canada

Working in Partnership with CABI

Michele Marcotte, Ph.D.
Director Research, Development, and Technology
National Lead – Biodiversity and Bioresources Science Strategy
Ottawa Research and Development Centre

19th Review Conference, July 26-27, 2016

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Canada

A Partnership for 67 years

1929 **– Imperial Parasite Service** of the Imperial Agricultural Bureaux, located at the Farnham House Laboratory in England, was responsible for Canada's work overseas.

1940 **– Imperial Agricultural Bureaux** relocated Imperial Parasite Service to Belleville to escape the World War II

1948 **–** headquarters of **Commonwealth Bureaux of Biological Control** transferred to Ottawa, Canada

1951 **– Commonwealth Institute of Biological Control (CIBC),** substations in Switzerland, West Indies (Trinidad) and California, USA

1959 **–** CIBC moved from Ottawa to Trinidad

1984 **–** CIBC headquarters moved to Ascot, UK

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Building capacity

The Canadian government through the Canadian International Development Agency (CIDA) funded totally or partly the establishment of station buildings in Kenya, India and Pakistan.

Kenya Station

India Station

Pakistan Station

Trinidad Station

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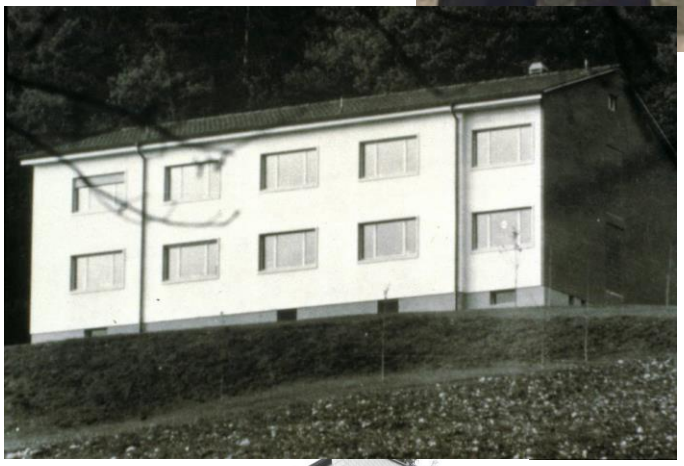
CABI Switzerland

1948 – CBBC substation set up in Switzerland to serve Canada's needs; based in Feldmeilen close to Zurich



1963 – new laboratory opened in Delémont on "Rue des Grillons" (Cricket Street)

2000 – addition added to accommodate growing programs

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CABI's role in Canadian efforts targeting invasive insect pests and weeds

Assessing feasibility of biological control

- Field and literature surveys to look for possible biological control agents

Discovering potential biological control agents

- Field collections, setting up rearing colonies
- Determine the biology/life history of agents

Selecting and assessing suitable agents

- Host-specificity testing for safety
- Evaluate potential for damage

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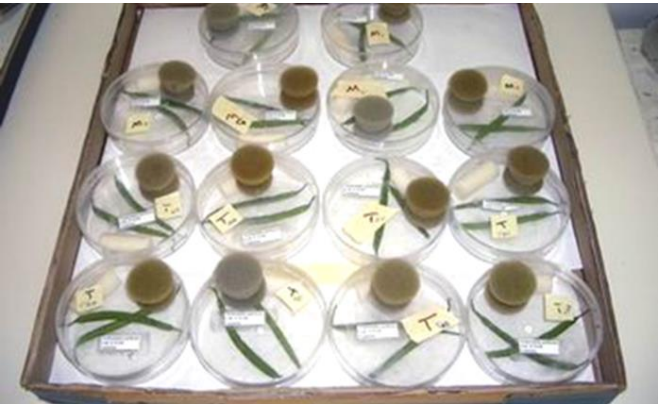
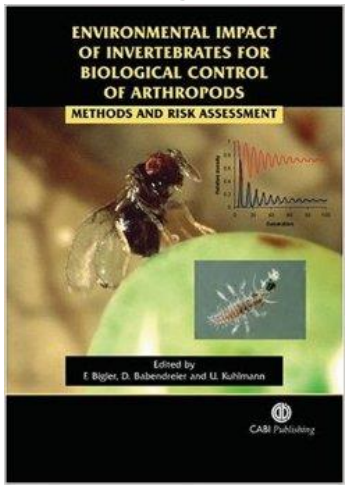


Towards safer biological control

- Joint efforts of CABI and AAFC to improve protocols for regulation of exotic biological control
- Major focus on risk assessment for classical biological control agents
- CABI and AAFC scientists made a major contribution to development of new testing methodology/international guidelines
- Ongoing testing to validate guidelines through practice



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Arthropod biological control agent releases

In 2010 the Canadian government approved the releases of parasitoids against the invasive leek moth and the lily leaf beetle

Control agents from Europe have been released against more than 50 invasive agricultural pests, primarily in North America. CABI contributed to the successful control of important agricultural pests such as **cereal leaf beetle**, apple ermine moth, **alfalfa weevil** and ***Lygus* plant bugs**

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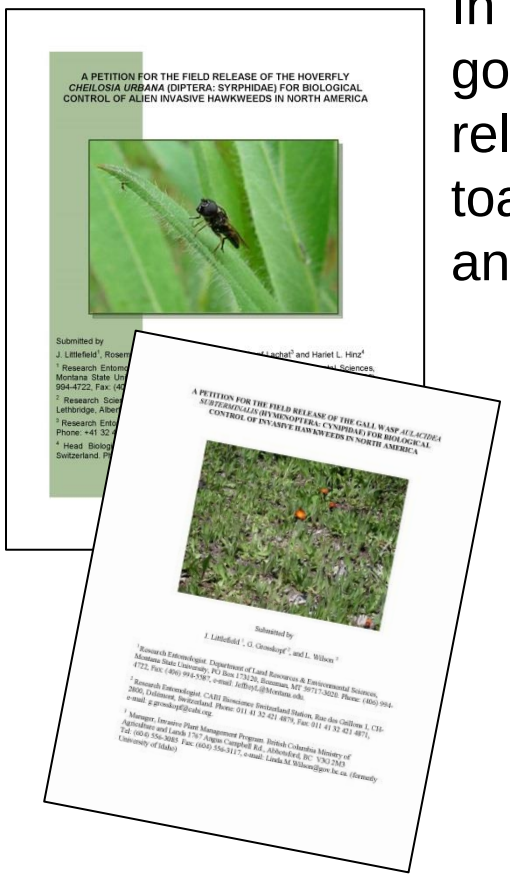
Weed biological control agent releases



In 2011-2015 the Canadian government approved releases of agents against toadflax dog strangling vine and hawkweeds.

Since 1952, 45 agents from Europe have been released against 27 weed species. Among these, 10 are “star performers”, e.g., *Neogalerucella calmariensis* has controlled *Lythrum salicaria*

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Canada-CABI collaborators

University of Manitoba:
Barb Sharanowski
Alejandro Costamagna

University of Alberta:
Felix Sperling

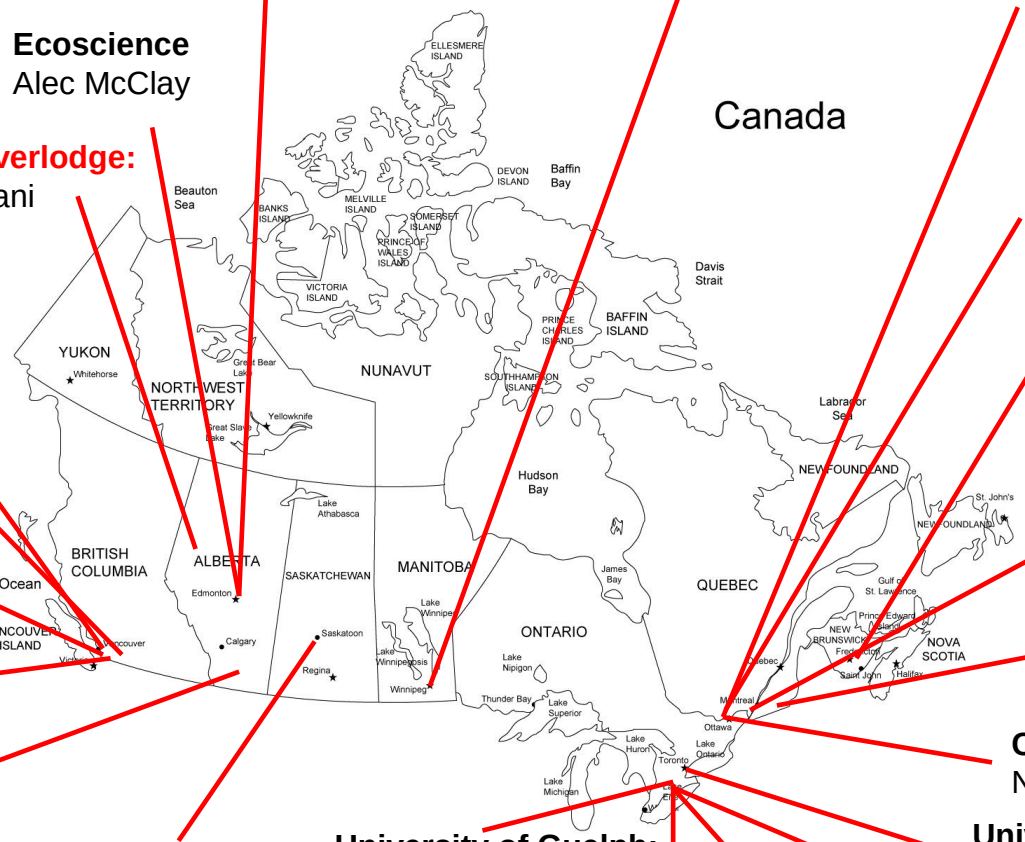
AAFC Ottawa:
Peter Mason
John Huber
Gary Gibson
Andy Bennett
Jose Fernandez

BC Ministry of Forests, Lands and Natural Resource Operation:
Susan Turner
Val Miller

Ecoscience
Alec McClay

AAFC Beaverlodge:
Jennifer Otani

Pest Management Centre Ottawa
Leslie Cass
Kathy Makela



AAFC Summerland:
Joan Cossentine

Simon Fraser University:
Bernie Roitberg

University of Montreal:
Jacques Brodeur

AAFCSaint-Jean-sur-Richelieu:
Guy Boivin
Charles Vincent

AAFC Agassiz:
Paul Abram

Carleton University:
Naomi Cappuccino

AAFC Lethbridge:
Rosemarie DeClerck-Floate
Robert Bourchier
Haley Catton
Kevin Floate
Hector Carcamo

University of Guelph:
Rebecca Hallett

University of Toronto:
Sandy Smith

AAFC Saskatoon:
Owen Olfert
Ross Weiss

Western University:
Jeremy McNeil

AAFC London:
Tara Gariepy

OMAFRA:
Hanna Fraser

AAFC Fredericton:
Chandra Moffat

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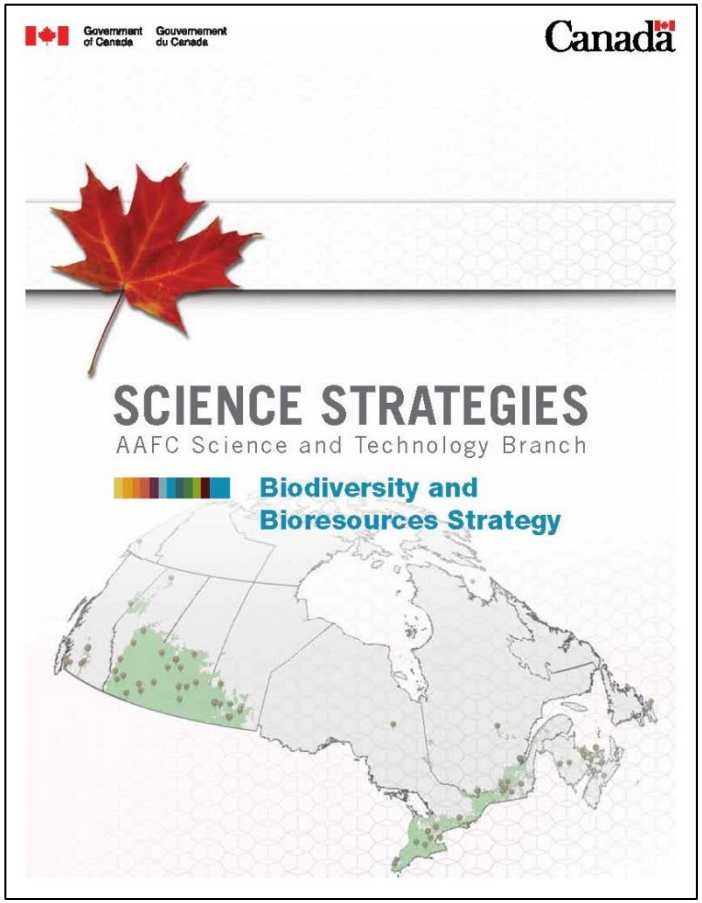
Canada's national priorities

STRATEGIC OBJECTIVES	SECTOR STRATEGIES						
	Cereals & Pulses	Oilseeds	Horticulture	Forages & Beef	Dairy, Pork, Poultry and Other Livestock	Agri-Food	Bioproducts
Increase agricultural productivity							
Enhance environmental performance			Areas of Focus				
Improve attributes for food and non-food uses							
Address threats to the value chain							
	Biodiversity and Bioresources				Agro-Ecosystem Productivity and Health		



- Development of mitigating biological control strategies for integrated pest management (IPM) for established invasive pests and emerging, invasive or quarantine pests.
- Mining biological collections for agriculturally relevant organisms and development of appropriate identification tools using modern technologies.

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Americas-CABI: the future

Strengthening partnership with CABI

- supporting CABI laboratories in source countries (e.g. China)
- contributing to Invasive Species Compendium

Partnering with other CABI member countries

- pooling resources to discover potential IAS and biological control agents
- understanding Access & Benefits Sharing legislation
- scientist & student exchanges to address global issues such as climate change

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Thank you!

For more information, please contact:
Michèle.Marcotte@agr.gc.ca

Canada