



JOINT MEETING OF THE
ENTOMOLOGICAL SOCIETIES
OF
CANADA AND ONTARIO



RÉUNION CONJOINTE DES
SOCIÉTÉS ENTOMOLOGIQUES
DU
CANADA ET D'ONTARIO



Biology and Biological Control of Established Invasive Plants in Canada

Saturday October 18 - Brookfield Conference, Room #1
Crowne Plaza Hotel, Ottawa - start at 8:00 AM

Organizers

- Rob Bouchier AAFC (bouRchierR@agr.gc.ca)
- Sandy Smith University of Toronto (s.smith.a@utoronto.ca)

Our principal objectives are to raise the profile of invasive plants and their biocontrol programs in Canada and enable networking to facilitate the management of established invasive plants in Canada. In this symposium we will start with introductory talks on 1) aspects that make plants invasive in Canada and 2) the background for invasive plant biocontrol in Canada, detailing some of the biocontrol success stories. These are followed with presentations on four invasive plants of interest; first discussing aspects of their invasion biology and ecology and then considering what is happening with their biocontrol program. The invasive plants considered are at differing stages in the development of their biocontrol program. Garlic mustard has just had a petition submitted for the release of a biocontrol agent. Vincetoxicum, Knotweed and Phragmites are at earlier stages of development, such as the identification of suitable agents, host-range testing and impact screening.

The symposium is in advance of the Joint Annual Meeting of the Entomological Societies of Canada and Ontario in Ottawa Oct 19-22. It will be a research symposium however the talks will be targeted to a broad group interested in operational level programs. We are hopeful that research, field and policy people will attend and that links can be made between new research partners to improve the management of invasive plants.

- 8:00 - Introduction - context and objectives.
8:15 Rob Bouchier AAFC-Lethbridge
- 8:15 - Invasive plants in Canada - how did we get here?
8:45 Stephen Darbyshire AAFC Ottawa
- 8:45 - Biological control of established invasive plants in Canada.
9:15 Rosemarie De Clerck-Floate (AAFC) and R. Bouchier AAFC

Garlic Mustard (*Alliaria*)

- 9:15 - Ecological management of *Alliaria petiolata*.
9:40 Stephen Murphy University of Waterloo
- 9:40 - Using demographic models to guide selection of biocontrol agents for garlic mustard (*Alliaria petiolata*).
10:05 Adam Davis USDA-ARS, J. A. Evans, D. Schemske, S. Raghu, and D. A. Landis

BREAK 10:05 - 10:35

Garlic Mustard (*Alliaria*, continued)

- 10:35 - Biological control of garlic mustard.
11:00 Esther Gerber and Harriet Hinz CABI-Europe-CH

Swallow-worts (*Vincetoxicum*)

- 11:00 - Biology and impact of pale swallow-wort.
11:25 Naomi Cappuccino Carleton University
- 11:25 - Utilization of demographic data to guide swallow-wort biocontrol.
11:50 Lindsey Milbrath USDA-ARS Ithaca & A.DiTommaso Cornell University

LUNCH on own 11:50 – 1:00

Swallow-worts (*Vincetoxicum*, continued)



- 1:00 - Progress in host specificity screening and impact assessment of potential
1:25 insect biocontrol agents of swallow-worts (*Vincetoxicum*).
Aaron Weed University of Rhode Island and A.Gassmann CABI-CH
- 1:25 – *Vincetoxicum* biological control: survey for natural enemies, preliminary host
1:50 testings, and host's phylogeographical considerations.
R. Sforza, M. Volkovitsch, R. Dolgovskaya, MC Bon & W. Jones USDA-European
Biological Control Laboratory

Knotweeds - *Fallopia*

- 1:50 - Biology and potential spread of invasive knotweeds in Canada: the largest female
2:15 in the old world is moving to the new.
Rob Bouchier AAFC-Lethbridge
- 2:15 - Ecosystem impacts of invasive knotweeds.
2:40 Esther Gerber Christine Krebs, Craig Murrell, Urs Schaffner CABI-Europe CH,
Marco Moretti WSL CH, Remy Rocklin Conseil général Belfort, France.
- 2:40 – Japanese knotweed biocontrol for Canada: building on UK experience.
3:05 Dick Shaw – CABI-Europe UK and Rob Bouchier AAFC-Lethbridge

BREAK 3:05-3:35

Reed - *Phragmites*

- 3:35 – The spread and the ecological impact of the common reed in Québec.
4:15 Claude Lavoie, Université Laval
- 4:15 – *Phragmites* biocontrol research in Europe: potential agents, their ecology and
4:40 impact .
Patrick Haefliger & Harriet Hinz CABI-Europe CH

Discussion wrap up - common threads (20 – 30 minutes)

There is no charge for registration because of sponsorship from the **Ontario Ministry Natural Resources** and the **Canadian Forum for Biological Control**. Coffee will be provided. Lunch is on your own in the adjacent food fair. Seating in the meeting room is limited (100).

👉 **If you are planning to attend please send an email to Rob Bouchier** 🏠

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