

**JOURNAL  
of the  
ENTOMOLOGICAL SOCIETY  
of  
ONTARIO**  
*Volume One Hundred and Forty Two  
2011*

**THE ENTOMOLOGICAL SOCIETY OF ONTARIO  
OFFICERS AND GOVERNORS  
2010-2011**

**President: H. FRASER**

Ontario Ministry of Agriculture, Food and Rural Affairs  
4890 Victoria Ave. North, P.O. Box 8000  
Vineland, ON L0R 2E0  
hannah.fraser@ontario.ca

**President-Elect: B. GILL**

Entomology Unit, Ontario Plant Laboratories, Canadian  
Food Inspection Agency, Building 18 C.E.F.  
960 Carling Ave., Ottawa, ON K1A 0C6  
bruce.gill@inspection.gc.ca

**Past-President: G. UMPHREY**

Department of Mathematics and Statistics  
University of Guelph, Guelph, ON N1G 2W1  
umphrey@uoguelph.ca

**Secretary: N. MCKENZIE**

Vista Centre, 1830 Bank Street, P.O. Box 83025  
Ottawa, ON K1V 1A3  
nicole\_mckenzie@hc-sc.gc.ca

**Treasurer: S. LI**

Pest Management Centre, Building 57  
Agriculture and Agri-Food Canada  
960 Carling Ave., Ottawa, ON K1A 0C6  
Dr.Shiyu.Li@nrcan.gc.ca

**Directors:****R. BUITENHUIS** (2011-2013)

Vineland Research and Innovation Centre  
4890 Victoria Ave. North, P.O. Box 4000  
Vineland, ON L0R 2E0  
rose.buitenhuis@vinelandresearch.com

**S. LACHANCE** (2010-2012)

Université de Guelph - Campus d'Alfred  
31 St. Paul Street, Alfred, ON K0B 1A0  
Slachance@alfredc.uoguelph.ca

**S. KULLIK** (2009-2011)

Department of Environmental Biology  
University of Guelph, Guelph, ON N1G 2W1  
sigrun.kullik@sympatico.ca

**J. MCNEIL** (2011-2013)

Department of Biology, BGS 3066  
University of Western Ontario,  
London, ON N6A 5B7  
jmcneil2@uwo.ca

**K. RYALL** (2009-2011)

Canadian Forest Service, Great Lakes Forestry Centre,  
Natural Resources Canada, 1219 Queen Street East,  
Sault Ste. Marie, ON P6A 2E5  
krista.ryall@NRCan-RNCan.gc.ca

**I. SCOTT**

(2010-2012)

Agriculture and Agri-Food Canada  
1391 Sandford Street, London, ON N5V 4T3  
Ian.Scott@agr.gc.ca

**ESO Regional Rep to ESC: H. DOUGLAS**

Canadian Food Inspection Agency  
960 Carling Ave., Ottawa ON K1A 06C  
douglash@inspection.gc.ca

**Librarian: J. BRETT**

Library, University of Guelph  
Guelph, ON N1G 2W1  
jimbrett@uoguelph.ca

**Newsletter Editor: A. GRADISH**

School of Environmental Science  
University of Guelph, Guelph ON N1G 4Y2  
agradish@uoguelph.ca

**Student Representative: M. LOCKE**

Agriculture and Agri-Food Canada  
960 Carling Avenue, K.W. Neatby Building  
Ottawa, ON, K1A 0C6

michelle.locke@agr.gc.ca

**Website: M. JACKSON**

School of Environmental Science  
University of Guelph, Guelph, ON N1G 2W1  
jackson@uoguelph.ca

**JESO Editor: J. HUBER**

Canadian National Collection of Insects  
Agriculture and Agri-Food Canada  
960 Carling Ave. Ottawa, ON, K1A 0C6  
John.Huber@agr.gc.ca

**Technical Editor: J. VICKRUCK**

Dept. of Biological Sciences, Brock University  
St. Catharines, ON L2S 3A1  
jess.vickruck@brocku.ca

**Associate Editors:****A. BENNETT**

Agriculture and Agri-Food Canada  
960 Carling Ave., Ottawa ON K1A 06C

**N. CARTER**

Engage Agro Corporation  
1030 Gordon St., Guelph, ON, N1G 4X5  
neilcarter@engageagro.com

**J. SKEVINGTON**

Agriculture and Agri-Food Canada  
Eastern Cereal and Oilseed Research Centre  
960 Carling Ave., Ottawa, ON K1A 0C6

**ENTOMOLOGICAL SOCIETY OF ONTARIO**

The **Society** founded in 1863, is the second oldest Entomological Society in North America and among the nine oldest, existing entomological societies in the world. It serves as an association of persons interested in entomology and is dedicated to the furtherance of the science by holding meetings and publication of the **Journal of the Entomological Society of Ontario**. The **Journal** publishes fully refereed scientific papers, and has a world-wide circulation. The Society headquarters are at the University of Guelph. The **Society's library** is housed in the McLaughlin Library of the University and is available to all members.

An annual fee of \$30 provides membership in the **Society**, and the right to publish in the **Journal**, and receive the **Newsletter** and the **Journal**. Students, amateurs and retired entomologists within Canada can join free of charge but do not receive the Journal.

A World Wide Web home page for the **Society** is available at the following URL:  
<http://www.entsocont.ca>

**APPLICATION FOR MEMBERSHIP**

Please send your name, address (including postal code) and email address to:  
Nicole McKenzie, Secretary, Entomological Society of Ontario  
c/o Vista Centre, 1830 Bank Street, P.O. Box 83025 Ottawa, ON K1V 1A3  
email: [nicole\\_mckenzie@hc-sc.gc.ca](mailto:nicole_mckenzie@hc-sc.gc.ca)

**NOTICE TO CONTRIBUTORS**

Please refer to the Society web site (<http://www.entsocont.ca>) for current instructions to authors. Please submit manuscripts electronically to the Scientific Editor ([john.huber@agr.gc.ca](mailto:john.huber@agr.gc.ca)).

**FELLOWS OF THE ENTOMOLOGICAL SOCIETY OF ONTARIO**

<b>W. W. BILL JUDD</b>	2002
<b>C. RON HARRIS</b>	2003
<b>GLENN WIGGINS</b>	2006
<b>BERNARD PHILOGENE</b>	2010
<b>FREEMAN MCEWEN</b>	2010