



Entomological Society of Ontario

NEWSLETTER

May 2001

Volume 6, Issue 2

OFFICERS OF ESO

President

Gard Otis (519-824-4120 x2478)
gotis@evb.uoguelph.ca

President Elect

Barry Lyons (705-759-5740 x 2081)
blyons@nrca.gc.ca

Past President

Kevin Barber (705-759-5740 x 2507)
kbarber@nrca.gc.ca

Secretary

David Hunt (519-738-2251, x427)
hunt@em.agr.ca

Treasurer

Blair Helson (705-759-5740 x 2422)
bhelson@nrca.gc.ca

Editor

Vol. 131: Dolf Harmsen (613-533-6136)
harmssen@biology.queensu.ca

Vol. 132: Yves Prévost (807-343-8342)
yprevost@sky.lakeheadu.ca

Librarian

Dave Hull (519-824-4120 x4214)
dhull@uoguelph.ca

Student Representative:

Jennifer MacIntyre
(519-824-4120 x3066)
jmacinty@uoguelph.ca

Directors:**1999-2001**

Neil Carter (905-562-3833)
neil.carter@omafra.gov.on.ca
Ron Harris (519-824-4120 x2573)
vwarren@evb.uoguelph.ca

2000-2002

Vanessa Carney (temporarily unavailable)
atheta_coriaria@yahoo.ca
Margaret Pickles (905-562-4400)
mpickles@sympatico.ca

2001-2003

Bruce Broadbent (519-457-1470 x251)
broadbent@em.agr.ca
Kathryn Nystrom (705-759-5740 x2075)
knystrom@nrca.gc.ca



2001: An Insect Odyssey “Exploration and Discovery”

Joint Annual Meeting

Entomological Society of
Canada and Ontario
Société d'Entomologie du
Canada et de l'Ontario

20-24 October 2001
Niagara Falls, Ontario Canada

We are pleased to invite all entomologists and other interested people to the Joint Annual Meeting (JAM) of the ESO and ESC—

2001: An Insect Odyssey. “Exploration and Discovery”

The organizing committee has developed an interesting and diverse program consisting of presentations by invited speakers, submitted talks and posters, poster and oral presentations by students competing for the ESC and ESO Presidents' Prizes, several workshops, and social events. A few highlights include:

- A plenary session, with invited presentations by:
Freeman McEwen, former Dean of the Ontario Agricultural College (“Milestones in Canadian Entomology”);
Dennis Avery, Director of Global Food Issues for the Hudson Institute, Indiana (“Feeding the Larger More Affluent World of the 21st Century”), and
Mike Dixon, Director of the Controlled Environment Systems Research Program, University of Guelph (“Life Support in Space: Contributions from Biological Systems”).

Continued on Page 2....

In this issue...

ESC/ESO Joint Annual Meeting, October 20-24, 2001
Student Travel Grants—Deadline September 24, 2001
Election of ESO Officers
New Members, Lost Members
President's Message, Editor's Message
Upcoming Events.....and more!

Visit the ESO website at: <http://www.utoronto.ca/forest/eso/eso.htm>



JAM 2001 Continued...

- Banquet speaker, **May Berenbaum**, Chair of the Department of Entomology, University of Illinois, noted for her scientific contributions on insect/plant interactions and humorous writings in the *American Entomologist*, with an entertaining look at insects in our society.
- **Symposia** on: “Emerging Technologies in Pest Management,” featuring four invited speakers with interesting views on human/insect interactions; and “Tree Fruit Entomology,” with five speakers from across Canada.
- Two workshops (“Entomology in Parks and Protected Spaces” and “Bringing Insects to the Public”) on Sunday, Oct. 21st, that should appeal to amateur and professional entomologists alike.
- Three additional workshops concerning new insect introductions, entomology of vineyards, and spatial analysis in entomology.
- A mixer (Sunday evening) and banquet (Tuesday evening) (included in the conference registration).

A synopsis of the schedule can be found at the end of this article. Full schedule and registration details and forms can be downloaded from the website: (www.utoronto.ca/forest/eso/eso_esc2001.htm).

There will be ample opportunity to present your personal research results, in oral or poster format, and in regular submitted paper sessions or student competitions. The deadline

for submission of presentations is July 2, 2001, so act soon! All forms for submitted papers can be downloaded from the website.

Niagara Falls, Canada

“One Wonder after Another”

Niagara Falls was selected as the venue for the meeting because of the scenic beauty of the falls and the large number of activities in the immediate area. The meeting will be held in the Sheraton Fallsview Hotel and Conference Centre which has spectacular views of the Horseshoe Falls. Rooms cost \$149 CDN for an east-facing room with a view of the falls, \$124 for a west-facing room (price the same for single or double). Rooms can be booked directly with the Sheraton Fallsview at 1-800-267-8439 or 905-374-1077.

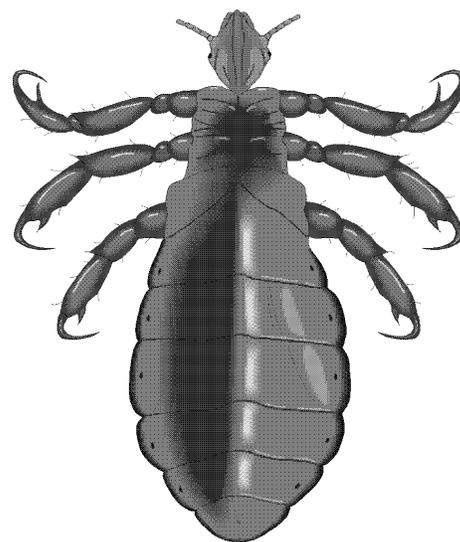
Late October is a spectacularly beautiful time to visit the Niagara region. Trees should be near the peak of fall colour, and temperatures are still pleasant. One can walk down into the Niagara Gorge; go underground to the base of the falls; view the falls from several revolving observation towers; and enjoy the nighttime light displays on the falls. The Niagara Butterfly Conservatory is wonderful site to visit. The excellent wines produced throughout the Niagara region invite your attention. The Shaw Theatre in nearby Niagara-on-the-Lake presents award-winning plays. And there are numerous other activities and museums for people of all ages. For more details, please visit the Niagara Falls tourism website at (www.NiagaraFallsTourism.com).

Plan on attending the ESO-ESC Annual Meeting in Niagara Falls this coming October!

JAM-2001 Organizing Committee

Student Travel Grants

Each year the Entomological Society of Ontario provides travel grants to assist students with their travel expenses. Student members of ESO who are presenting a poster or paper at the Joint Meeting of the Entomological Societies of Ontario and Canada in Niagara Falls, October 21-24, 2001 are eligible to apply. Any interested students must apply in writing stating their financial needs for attending the conference, and why they should be chosen to receive a grant. Please indicate contact information including an email address. **Deadline for application is September 24, 2001.** Please send application to: Margaret Pickles, ESO Director, 3252 Garner Road, Niagara Falls, Ontario, L2E 6S4 or email: mpickles@sympatico.ca Grant recipients will be notified the first week of October.





ELECTION OF ESO OFFICERS, 2001

The following are the biographies supplied by the candidates for the positions of President-Elect, Directors, and Student Representative. Ballots and return envelopes are included with this newsletter.

Please return the ballots by 01 August so that they will be included in the election.

President-Elect (select one)

Bruce D. Gill

Bruce is an identification and regulatory entomologist with the Canadian Food Inspection Agency's Centre for Plant Quarantine Pests in Ottawa. He began collecting and studying beetles in Vancouver, B. C., during the mid-1960's, when other kids were more interested in the Beatles. After high school, the itinerant Gill began converting gasoline to insects by driving to Costa Rica for a six-month camping trip. With more windshield smears than pinned specimens to show for his efforts, he returned to Vancouver to continue his education (which still continues to this day). Pursuing a B.Sc. in Honours Zoology at U.B.C. under the guidance of Prof. G.G.E. Scudder, summers were filled with aphid studies in Bryan Frazer's lab at the Vancouver Research Station of Agriculture Canada. After graduating in 1980 (and a summer of feeding biting-flies in the Yukon courtesy of N.S.E.R.C.), Bruce migrated to Ottawa to commence graduate work on scarab beetles under Prof. H.F. Howden at Carleton University. Proper training and numerous collecting trips to the tropics (where biting flies are scarce) ensured that his pinned ref-

erence collection grew faster than the smears on his visor. Receiving his Ph.D. in 1986 for a thesis on the foraging behaviour of tropical forest dung beetles in Panama, Dr. Gill taught for 1 year at Carleton then spent 2 years at the National Museum of Natural Sciences organising the Entomology section and assisting with public exhibits. He switched into his current position as a regulatory entomologist with the former F.P. & I. Branch of Agriculture Canada in 1990. His daily responsibilities include the identification of domestic and exotic insects found during pest surveys or intercepted in international commerce; reviewing of CFIA permit applications for importing live insects for display, research or release as biological control agents; and providing entomological advice on agricultural and forestry pests at the national and international level.

Bruce has published two dozen scientific papers, maintains a self-funded (low budget) research program on the systematics and ecology of scarab beetles, provides taxonomic support to various biodiversity and conservation projects in the tropics, and has co-supervised graduate students through the University of Pretoria. He is a member of various organisations including the entomological societies of America, Canada, R.E.S. London, and the Coleopterists Society. He recently emerged as a true bug person (with curiosity piqued by the Coreidae & Reduviidae) by joining the International Heteropterists Society in the year 2000. He has been a member of the E.S.O. since the early 1980's, receiving the President's Prize in 1984, and serving as a Director from 1995 to 1997. He served as chair of the Headquarters Committee of the Entomological Society of Canada from 1997 to 2000 whereupon he

did the honourable thing and resigned, after purchasing his own headquarters in swampland west of Ottawa. If elected, he will do his utmost to ensure that the PESO's reputation continues to escalate in value (but not cost), and that ESO becomes a driving force of entomology in Ontario through printed and electronic media. A summer ESO picnic & BBQ (beetle & bug quaffing) in the back yard is not out of the question.

Joseph D. Shorthouse

Dr. Joseph D. Shorthouse has been a professor in the Department of Biology at Laurentian University in Sudbury since 1975. He did his B. Sc. and M.Sc. at the University of Alberta and his Ph.D. at the University of Saskatchewan, and a post-doctorate with Agriculture Canada at Regina on the use of gall insects in the biological control of weeds. He teaches courses in general entomology, forest entomology and applied entomology and a popular course for first year non-science students entitled Canadian Environmental Biology. He has served on numerous committees at Laurentian University, has been Chair of the Department of Biology, and has been on provincial committees appraising all graduate programs at Ontario universities. He has studied insect galls since the age of 12 and today his laboratory is one of the few in the world devoted to an interdisciplinary approach to gall insect-host plant relationships. Along with his graduate students, he has studied the ecology of gall inhabitants, developmental morphology of galls, and the physiology of galls and regularly publishes in both entomological and botanical journals. He has studied cynipid galls on the



wild roses of Canada from coast to coast and currently is studying galls on the northern rivers of Ontario that flow into Hudson Bay and James Bay. He has given several hundred presentations and seminars at conferences and universities in all provinces and many countries throughout the world. He has served on several committees of the Entomological Societies of Ontario and Canada and was President of the Entomological Society of Ontario from 1985 to 1986. He is currently Chair of the Scientific Committee of the Biological Survey of Canada (Terrestrial Arthropods), which is funded by the Canadian Museum of Nature and the Entomological Society of Canada. If elected as President-Elect, Joe Shorthouse would be honoured to serve the Entomological Society of Ontario once again.

Directors (select two)

Hannah Fraser

Hannah Fraser's fascination with insects began during her formative years in Africa where, as a small child she awoke one evening to discover she was sharing her bed with hundreds of ants. Having successfully moved past the trauma associated with this event, she received her B.Sc. in Agriculture (Environmental Biology) in 1992. While conducting her undergraduate NSERC research with Dr. Mark Sears at the University of Guelph, Hannah enjoyed feeding unsuspecting Colorado potato beetles to eagerly awaiting two-spotted stinkbugs. Under the steady guidance of Dr. Cynthia Scott-Dupree, she completed her M.Sc. (Entomology) in

1997, focusing on the pheromone blend and pheromone-mediated behavior of the greater wax moth, *Galleria mellonella* L., a cosmopolitan pest of honeybees and beekeeping activities.

Following graduation, Hannah spent several years as a research technician in entomology with Agriculture and Agri-Food Canada in Vineland, ON. To the dismay of lepidoptera everywhere, she tormented thousands of insects by limiting their reproductive activities through the use of various mating disruption technologies. Hannah recently published a paper on the effects of delayed mating on the reproductive biology of the Oriental fruit moth. Working in conjunction with Dr. Mitch Trimble and visiting post-doctoral fellow Dr. Ashraf El-Sayed, she has also been involved in the chemical identification and behavioral activity of pheromone blends in an eastern North American population of the oblique banded leafroller.

In June of 2000, Hannah accepted a position with the Ontario Ministry of Agriculture, Food, and Rural Affairs as the provincial Entomology Horticulture Program Lead. The challenges to date have included developing an understanding of the role of aphids in the spread of plum pox virus (or "Sharka") in Ontario stone fruit production areas, the development of IPM scout/grower training programs in entomology, and the publication of numerous newsletter articles on insects of relevance to the horticultural industry. Hannah is interested in collaborating with researchers and other extension personnel in developing tools for use in IPM programs available to Ontario growers.

If elected, she would be pleased to serve and promote the ESO.

Rebecca Hallett

I am an entomologist and chemical ecologist researching insect-plant interactions and the control of insect pests on vegetable crops. I have been an Assistant Professor in the Department of Environmental Biology, University of Guelph, since September 1998. Prior to that I did my graduate degrees at Simon Fraser University and my B.Sc. at University of Toronto. I currently serve as Co-chair of the Scientific Program Committee for the ESC/ESO 2001 Joint Annual Meeting, and Chair of the ESC Elections Committee. I am also Chair of the Ontario Root, Bulb & Leafy Vegetable Research & Services Committee, and a past-member of NSERC's Scholarships & Fellowships Committee. If elected to the Governing Board, I will be pleased to serve the Membership of the Entomological Society of Ontario as a Director.

Peter Mason

Peter Mason received his B.Sc. from the University of Guelph in 1975 and completed a M.Sc. (1978) and Ph.D. (1983) at the University of Saskatchewan, where he worked on the systematics and ecology of Chironomidae in the Saskatchewan River. Since graduation, Peter has been employed by Agriculture and Agri-Food Canada (AAFC), working in oilseed insect biological control and black fly pest management research at the Saskatoon Research Centre until 1998. In 1998 he relocated to the Eastern Cereal and Oilseed Research centre in Ottawa where he has established a research program on biological control of insect pests of cereal and oilseed crops. Peter is manager of the Na-



tional Insect Quarantine Facility and represents AAFC on the North American Plant Protection Biocontrol Panel and the Organization for Economic Cooperation and Development working group for developing regulations for inundative biological control agents.

Peter has served on various committees of the Entomological Society of Canada, the Entomological Society of Saskatchewan and is currently a member-at-large of the Nearctic Regional Section of the International Organisation for Biological Control. If elected, he would work towards enhancing the profile of the ESO and attracting new members to the Society.

Student Representative (select one)

Andrea Martin

My name is Andrea Martin and I am a Master's candidate at the University of Guelph in the Environmental Biology Department. I am originally from Nova Scotia and graduated last spring from the Nova Scotia Agricultural College. My degree was a Bachelor's in Science with a major in Pest Management. I chose to come to Guelph because of my desire to stay within the agricultural industry and I am very pleased with my decision so far!

I am presently studying a new pest to Ontario called the pea leafminer. It is a pest of horticultural crops and is especially damaging to celery. It was first identified during the summer of 1998 in the Bradford region. My project will focus on overwintering capabilities as well as host range and preference.

I hope to continue the student newsletter that is being established by the present student representative. This newsletter is a compilation of student members and their area of study. It would allow for easier interaction amongst students working in similar domains and encourage interaction.

Christine C. Vance

I am currently an M.Sc.F. candidate at the University of Toronto, in the Faculty of Forestry. I completed my B.Sc. at Trent University in biology/environmental science. My interest in entomology stems from working for C.F.S. in Sault Ste. Marie with aquatic insects for two summers. I then moved into the terrestrial world, studying effects of selection logging on ground beetles in Algonquin Park. Currently I am working with Dr. Sandy Smith on an insect biodiversity project in the canopies of eastern temperate forests. I am also working on a field guide for common ground beetles in mixed forests of central Ontario.

As student representative for the ESO, I hope to further develop and improve certain aspects of the Society. I am mostly interested in building on the existing network for ESO members. I would like to increase member interest and involvement by placing a larger emphasis on the Internet as a communication tool. I hope to update the student portion of the ESO web site, and change it regularly (e.g. have a "student of the month" theme that focuses on one project/student at a time). I would also like to make ESO applications and newsletters available on-line, in order to facilitate mem-

berships and regular communication. This would also, in my opinion, increase interest and membership in the ESO.

Krista Ryall

I am a PhD student in the Faculty of Forestry at the University of Toronto. For my PhD, I have been working under the supervision of Dr. S. Smith, researching temporal and spatial responses by populations of bark beetles and their natural enemies following the 1998 ice storm. For my MSc., I researched the biology and reproductive success of an exotic species, the pine shoot beetle, with the Department of Zoology, University of Toronto. I received my B.Sc.H. from the Department of Biology at Queen's University. My Honours research project with Dr. R. Harmsen examined the phenology of and competition between several endo- and ecto-parasitoid species utilizing a common host.

I have participated in the Entomological Society of Ontario in various ways for a number of years, including presenting my research findings at the annual meetings, being a student member, and publishing papers in the annual Proceedings. As I am nearing the end of my student career, I welcome the opportunity to participate in the Society in another manner, as the Student Representative for the upcoming academic year.



New ESO Members in 2001

Mohammad Afzal Qamar
515-255 Main
Toronto, Ontario M4C 4X2

Fatema Begum
1907-201 Sherbourne Street
Toronto, Ontario M5A 3X2

Tim Boudreau
University of Guelph
Dept. of Environ. Biol.
Guelph, Ontario N1G 2W1

Chad Brassil
University of Toronto
Dept. of Zoology
25 Harbord St.
Toronto, Ontario M5S 3G5

Fenja Brodo
28 Benson Street
Nepean, Ontario K2E 5J5

Michael Cournoyer
McGill University
Macdonald Campus
21, 111 Lakeshore Road
Ste-Anne de Bellevue, Quebec
H9X 3V9

Sonya Gibson
906-80 Antibes Drive
Toronto, Ontario
M2R 3N5

Mark Hanson
University of Guelph
Dept. Environ. Biol.
Guelph, Ontario N1G 2W1

Dominic Iozzo
31 Fort Creek Dr.
Sault Ste. Marie, Ontario
P6C 5T7

Sigrun Kullik
University of Guelph
Dept. Environ. Biol.
Guelph, Ontario N1G 2W1

Peter G. Mason
Agriculture and Agri-Food Canada
Central Experimental Farm
960 Carling Ave.
Ottawa, ON K1A 0C6

Bela Pajor
421 Yonge St.
Barrie, ON L4N 4E1

Todd Redhead
4 Lydon Ave.
Toronto, ON M6N 4J4

Robin Sellars
Biology Department
York University
4700 Keele Street
Toronto, Ontario M3J 1P3

Steven Seybold
Department of Entomology
University of Minnesota
219 Hodson Hall, 1980 Folwell
St. Paul, Minnesota, USA
55108-6125

Miranda Smith
70 Major Street
Toronto, Ontario M5S 2L1

Coralie Sopher
University of Guelph
Dept. Environ. Biol.
Guelph, Ontario N1G 2W1

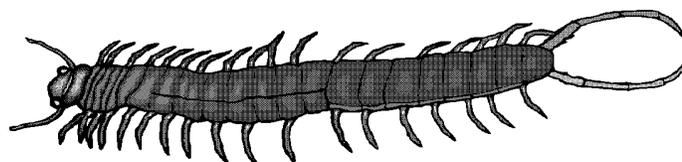
Christine Vance
Faculty of Forestry
University of Toronto
33 Willcocks St.
Toronto, ON M5S 3B3

Charles K. Zubovits
R.R.#1
Goodwood, Ontario L0C 1A0

Lost ESO Members

Several weeks after the mailing of each ESO newsletter, a few newsletters return, battered and crumpled, to the editor. Representatives of various postal services are always very diligent in smearing the 'Return to Sender' stamp into complete illegibility and then scrawling a mark in the general direction of the stamp to indicate that they really don't care why the newsletter was not delivered. I can't imagine anyone voluntarily refusing delivery of such a valuable document so I can only surmise that they have moved, leaving no forwarding address for reasons best left to the imagination. However, we want them back as newsletter-receiving members of the ESO, regardless of their motives for not giving us their new addresses. If you know of the whereabouts of the following misplaced members, please ask them to contact Dave Hunt, Secretary of the ESO to reinstate themselves:

- Randy Gadawski; formerly (?) at the Insect Control Branch in Winnipeg
- Paul Lomic; formerly (?) at the Faculty of Forestry at the University of Toronto
- R.E. Skidmore; formerly (?) in Ottawa





Message from the President

"Fellow Entomologists,

After a rather slow start on the spring, we seem to be catching up quickly with lots of insect activity. Our honey bees suffered from a severe pollen dearth in early April, during which they completely stopped brood rearing. That enhanced the damage done by tracheal mites, and many colonies have died. The survivors are building up quickly with the abundance in pollen they have collected more recently.

Most of you should have noticed the extensive butterfly migration that occurred a few weeks back. There were lots of American Painted Ladies, and one of the strongest movements of Red Admirals we have had in Ontario. (Did some of the Red Admirals manage to overwinter and contribute to the larger-than-normal numbers?) And in Guelph and elsewhere, the exotic European *Polistes dominulus* is finally becoming rather common.

A few reminders. First, if you have not renewed your membership, please do so. Second, make your plans now to attend the annual meeting in Niagara Falls. The deadline for the submission of talks is coming up soon: July 2, 2001. Planning for the joint conference with the Entomological Society of Canada is now in the advanced stage and everything is falling neatly into place. Third, encourage students you know to join the ESO--it is free for them and will look good on their resumes. Fourth, think of our journal for publication

of your research results. Yves Prevost is doing a great job in his new role as Editor and will be pleased to receive your manuscript.

Finally, have a wonderful and productive summer.

I am personally off to teach the University of Guelph Field Entomology course (May 12-27) in Virginia and North Carolina. If you know of any undergraduate students who may be interested in such a course next year, please have them contact me."

Gard W. Otis
President, ESO



President Gard Otis accepts the ceremonial ESO gavel from Past President Kevin Barber at the Annual General Meeting in Sault Ste. Marie, October 27, 2000.

Accepting Manuscripts for PESCO Volume 132

I am presently accepting manuscripts for our journal. This issue will be published early in 2002.

You may send manuscripts via email to:

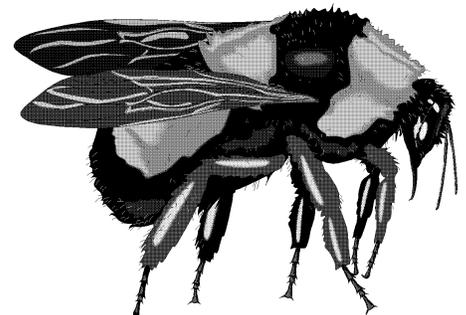
yprevost@sky.lakeheadu.ca
or by snail mail to the address below. I am looking forward to reading your work.

Yves Prevost Ph.D., Entomologist
Chair of the Environmental Studies
Program

Faculty of Forestry and the Forest
Environment, Lakehead University
Thunder Bay
ON P7B 5E1

Phone 807 343 8342
FAX 807 343 8116

<http://www.lakeheadu.ca>
<http://flash.lakeheadu.ca/~yprevost/yveshome.html>





Upcoming Meetings and Events

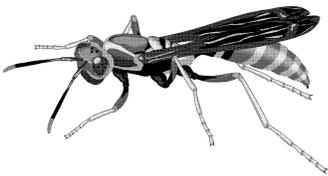
International IPM Conference: Exploring New Frontiers in Inte- grated Pest Management

Toronto, Canada

March 24 to 26, 2002

Contact: Margaret Appleby, IPM
Systems Specialist, OMAFRA
margaret.appleby@omafra.gov.on.ca
613-475-5850

For more information visit the con-
ference website at [http://www.gov.
on.ca/omafra/ipmconference/](http://www.gov.on.ca/omafra/ipmconference/)



BugFest! August 9-16, Sudbury:

Deep fried scorpions and other deli-
cacies await during **Science North's
First International BugFest** cele-
brating the fascinating (and tasty!)
world of insects! Highlights include
Dinner on the Wild Side, featuring
such delicacies as deep fried scorpions,
and John Acorn: The Nature
Nut, host of the popular television
series, who will lead field trips and
natural photography workshops.

Three ESO Board Members will be
participating in Bugfest: Kathryn
Nystrom will be handling insect
identification, Margaret Pickles will
be doing Insect Crafts and Yves
Prévost will be giving a talk "The

Snack that Crawls" and offering
edible insect samples.

Visit Science North's website for all
the information you'll need to at-
tend this event.

[http://sciencenorth.ca/plan/
specialevents/sotws/index2.html#ftc](http://sciencenorth.ca/plan/specialevents/sotws/index2.html#ftc)

The 5th International Congress of Dipterology

Brisbane, Australia, 30 September
to 4 October, 2002

For more information contact Sally
Brown, Conference Connections:
sally.brown@uq.net.au

[http://www.uq.edu.au/entomology/
dipterol/diptconf.html](http://www.uq.edu.au/entomology/dipterol/diptconf.html)



ESO annual meeting participants at the Great Lakes Forestry Centre enjoy a beautiful afternoon in Sault Ste. Marie, October 27, 2000.