

# TORTS

## Newsletter of the Troop of Reputed Tortricid Systematists

### **INTERNATIONAL CONGRESS OF ENTOMOLOGY IN BRISBANE, AUSTRALIA, 2004**

For those of us that may be fortunate enough to attend the International Congress of Entomology in Brisbane, Australia in August of this year, I would like to propose a brief, informal get-together so that we may meet each other face-to-face and possibly discuss future directions and goals in regards to the study of Tortricidae. An hour or so in a pub should be sufficient. Send me an e-mail and I will try to generate a list of potential attendees and coordinate a meeting, with the assistance of Marianne Horak, of course.

With the catalog of the world Tortricidae potentially complete (or nearing completion) by that time, perhaps we can identify a new project upon which we can collaborate and focus our efforts on a global basis. Possibilities include a collection of electronic images of the types (e-types) of all Tortricidae; a comprehensive food plant database (Gaeden Robinson and I compiled a preliminary database); an evaluation of phylogenetic relationships among specific groups within the family based on molecular data (i.e., perhaps we can review what groups currently are being evaluated and what genes are being used); the compilation of a comprehensive bibliography for Tortricidae; or other projects large or small. If you are unable to attend but have a suggestion for a global project upon which we might focus our little international community, please feel free to contact me and I will pass along your thoughts. Your input is greatly valued whether you can attend or not. I hope to see (and meet for the first time) some of you in Brisbane. You can contact me at [jbrown@sel.barc.usda.gov](mailto:jbrown@sel.barc.usda.gov). Thanks.

### **ANNUAL MEETING OF THE LEPIDOPTERISTS' SOCIETY AT THE UNIVERSITY OF MARYLAND**

The 2004 annual meeting the Lepidopterists' Society is co-sponsored by the Entomology Department of the University of Maryland, the Entomology Department of the National Museum of Natural History (Smithsonian Institution), and the U.S. Department of Agriculture's Systematic Entomology Laboratory. The majority of the conference activities will take place at the University of Maryland in College Park. However, there will be an open house/reception at the National Museum in Washington, D.C., the evening of 15 July.

The reception represents the most convenient opportunity for you to visit the Lepidoptera collection at the museum. If you would like to spend some time with the collection (before, during, or after the meeting), please let me know in advance and tell me what taxa you would like to examine - I can take a little time to make sure your group is properly organized and available for your perusal, and that there is space in the visitors' office. I encourage all of our North American members, especially those who live in the East, to come see our collection. I'm certain that you will be able to find plenty of mistakes to correct and many surprises in the vast, somewhat chaotic "pro-tem" portion of the Tortricidae. I truly look forward to the opportunity of hosting your visit to the National Collection and invite you to make a contribution to its overall organization by helping to improve the curation of taxa with which you are most familiar. For meeting registration information, please go to the Lepidopterists' Society website.

## COMMON NAMES OF TORTRICIDAE

Occasionally, when the common name of a tortricid is used in the title (or text) of a paper, I do not know the species to which the author is referring - an embarrassing situation for a reputed tortricid systematist! This happens even more frequently when two- or three-letter abbreviations of the common name are used, e.g., OFM (Oriental fruit moth) or FW (filbert worm). In an attempt to remedy this situation, I compiled a list of the common names of Tortricidae that I have seen over the past few years in the literature, in titles of talks at meetings, or on the web. Although the list is certainly far from complete, I think it includes the most frequently used common names. If you recognize omissions, please send them my way and I will include them in the next Newsletter.

apple skinworm - *Argyrotaenia citrana* (Fernald)  
 avocado leafroller - *Homona spargotis* Meyrick  
 banded sunflower moth - *Cochylis hospes* Walsingham  
 banksia boring moth - *Arotrophora arcutalis* (Walker)  
 bidens borer - *Epiblema otiosana* (Clemens)  
 black cowpea moth - *Leguminivora ptychora* (Meyrick)  
 blackheaded fireworm - *Rhopobota naevana* (Huebner)  
 boxelder twig borer - *Proteoteras willingana* (Kearfott)  
 Brazilian apple leafroller - *Bonagota salubricola* (Meyrick)  
 Cape roller - "*Tortrix*" *capensana* Walker  
 carambola fruit borer - *Eucosma notanthes* Meyrick  
 carnation tortrix moth - *Cacoecimorpha pronubana* (Huebner)  
 carnation worm - *Epichorista ionephela* (Meyrick)  
 cherry bark tortrix - *Enarmonia formosana* (Scopoli)  
 cherry fruitworm - *Grapholita packardii* Zeller  
 chokecherry leafroller - *Sparganothis directana* (Walker)  
 chrysanthemum flower borer - *Lorita scarificata* (Meyrick)  
 citrus codlin - *Thaumatotibia leucotreta* (Meyrick)  
 citrus rind moth - *Adoxophyes templana* (Pagenstecher)  
 clover head caterpillar - *Grapholita interstinctana* (Clemens)  
 codling moth - *Cydia pomonella* (Linnaeus)  
 cone moth - *Cydia* spp.  
 cotton tipworm - *Crociosema plebejana* Zeller  
 cottonwood twig borer - *Gypsonoma haimbachiana* (Kearfott)  
 crown boring moth - *Cochylis atricapitana* (Stephens)  
 Douglas-fir cone moth - *Barbara colfaxiana* (Kearfott)  
 duskyback leafroller - *Amorbia humerosana* Clemens  
 dusky leafroller - *Amorbia humerosana* Clemens  
 eastern blackheaded budworm - *Acleris variana* (Fernald)

eastern pine seedworm *Cydia toreuta* (Grote)  
 eastern pine shoot borer - *Eucosma gloriola* Heinrich  
 elderberry pana leafroller - *Cryptoptila australana* (Lewin)  
 eucalyptus leafroller - *Strepsicrates macropetana* (Meyrick)  
 European grape moth - *Lobesia botrana* (D. & S.)  
 European pine shoot moth - *Rhyacionia buoliama* (D. & S.)  
 European vine moth - *Lobesia botrana* (D. & S.)  
 eyespotted bud moth - *Spilonota ocellana* (D. & S.)  
 false codling moth - *Thaumatotibia leucotreta* (Meyrick)  
 filbertworm - *Cydia latiferreana* (Walsingham)  
 fir seed moth - *Cydia bracteatana* (Fernald)  
 fourbanded leafroller - *Argyrotaenia quadrifasciana* (Fernald)  
 four eyes - *Cryptoptila immersana* (Walker)  
 fruttree leafroller - *Archips argyrospila* (Walker)  
 grape berry moth - *Paralobesia viteana* (Clemens)  
 grape moth - *Lobesia botrana* (D. & S.)  
 grapevine moth - *Lobesia botrana* (D. & S.)  
 graybanded leafroller - *Argyrotaenia mariana* (Fernald)  
 gray larch budmoth - *Zeiraphera diniana* (Guenee)  
 gray larch budworm - *Zeiraphera diniana* (Guenee)  
 greater tea tortrix - *Homona coffearia* (Nietner)  
 green budworm - *Hedya nubifera* (Haworth)  
 greenheaded leafroller - *Planotortrix excessana* (Walker)  
 green oak tortrix - *Tortrix viridana* Linnaeus  
 green spruce leafminer - *Epinotia nanana* (Treitschke)  
 guava bud moth - *Strepsicrates ejectana* (Walker)  
 hickory leafroller - *Argyrotaenia juglandana* (Fernald)  
 hickory shuckworm - *Cydia caryana* (Fitch)  
 ivy leafroller - *Cryptoptila immersana* (Walker)  
 jack pine budworm - *Choristoneura pinus* Freeman  
 jujube leafroller - *Ancylis sativa* Liu  
 koa seedworm - *Cryptophlebia illepida* (Butler)  
 lantana flower caterpillar - *Crociosema lantana* Busck  
 larch budmoth - *Zeiraphera* spp.  
 larch needleworm - *Zeiraphera improbana* (Walker)  
 large aspen tortrix - *Choristoneura conflictana* (Walker)  
 lesser appleworm - *Grapholita prunivora* (Walsh)  
 light brown apple moth - *Epiphyas postvittana* (Walker)  
 litchi fruit moth - *Cryptophlebia ombrodelta* (Lower)  
 locust twig borer - *Ecdytolopha insiticihana* Zeller  
 longleaf pine seedworm - *Cydia ingens* (Heinrich)  
 lucerne leafroller - *Merophyas divulsana* (Walker)  
 macadamia nutborer - *Cryptophlebia ombrodelta* (Lower)  
 maple trumpet skeletonizer - *Catastega aceriella* Clemens  
 maroon epitymbia moth - *Epitymbia isoscelana* (Meyrick)  
 Mexican jumping bean moth - *Cydia deshaisiana* (Lucas)  
 Mexican leafroller - *Amorbia emigratella* Busck  
 Nantucket pine tip moth - *Rhyacionia frustrana* (Comstock)  
 northern pitch twig moth - *Retinia albicapitana* (Busck)  
 nutgrass borer moth - *Bactra venosana* (Zeller)  
 oak leafroller - *Archips semifera* (Walker)  
 oak leafroller moth - *Tortrix viridana* Linnaeus  
 oak leaf-tier - *Acleris semipurpurana* (Kearfott)

oak webworm - *Archips fervidana* (Clemens)  
 obliquebanded leafroller - *Choristoneura rosaceana* (Harris)  
 occidental tortrix - *Archips occidentalis* (Walsingham)  
 omnivorous leafroller - *Platynota stultana* Walsingham  
 omnivorous leaf-tier - *Cnephasia longana* (Haworth)  
 orange fruitborer - *Isotenes miserana* (Walker)  
 orange tortrix - *Argyrotaenia citrana* (Fernald)  
 Oriental fruit moth - *Grapholita molesta* (Busck)  
 pale apple leafroller - *Pseudexentera mali* Freeman  
 pale juniper webworm - *Aethes rutilana* (Huebner)  
 parthenium stem galling moth - *Epiblema strenuana* (Walker)  
 pea moth - *Cydia nigricana* (Fabricius)  
 pear moth - *Cydia pyrivora* (Danilevsky)  
 pecan bud moth - *Gretchena bolliana* (Slingerland)  
 pine amorbia - *Amrobia humerosana* Clemens  
 pine seedworm - *Cydia piperana* Kearfott  
 pine shootmoth - *Retinia* spp.  
 pine tube moth - *Argyrotaenia pinatubana* (Kearfott)  
 pink blackwood leaf-tier - *Holocola triangulana* Meyrick  
 pink pod borer - *Leguminivora ptychora* (Meyrick)  
 pitch nodule maker - *Retinia* spp.  
 pitch twig moth - *Retinia comstockiana* (Fernald)  
 ponderosa pine tip moth - *Rhyacionia zozana* (Kearfott)  
 polar twig borer - *Gypsonoma aceriana* (Duponchel)  
 ragwort borer - *Epiblema strenuana* (Walker)  
 ragwort crown-borer - *Cochylis atricapitanana* (Stephens)  
 raspberry leafroller - *Olethreutes permundana* (Clemens)  
 redbanded leafroller - *Argyrotaenia velutinana* (Walker)  
 shortleaf pine cone borer - *Eucosma cocana* (Kearfott)  
 silky oak leafminer - *Paraglyphis atimana* (Meyrick)  
 slash pine seedworm - *Cydia anaranjada* Miller  
 smaller fruit tortrix - *Grapholita lobarzewskii* (Nowicki)  
 smaller tea tortrix - *Adoxophyes honmai* Yasuda  
 southernwestern pine tipmoth - *Rhyacionia neomexicana* (Dyar)  
 spruce bud moth - *Zeiraphera canadensis* Matuurra & Free.  
 spruce budworm - *Choristoneura fumiferana* (Clemens)  
 spruce needleminer - *Taniva albolineana* (Kearfott)  
 spruce seed moth - *Cydia strobilella* (Linnaeus)  
 stem-galling moth - *Epiblema strenuana* (Walker)  
 strawberry leafroller - *Ancylis comptana* (Froelich)  
 subtropical pine tip moth - *Rhyacionia subtropica* Miller  
 summer fruit tortrix - *Adoxophyes orana* (F. v. Roeslerstamm)  
 sunflower bud moth - *Suleima helianthana* (Riley)  
 sunhemp shoot borer - *Cydia tricentra* (Meyrick)  
 tea tortrix - *Homona magnanima* Diakonoff  
 three-lined leafroller - *Pandemis limitata* (Robinson)  
 top shoot borer - *Cydia tricentra* (Meyrick)  
 tufted apple budmoth - *Platynota idaeusalis* (Walker)  
 twinstip budworm - *Hedya chionosema* (Zeller)  
 ugly-nest caterpillar - *Archips cerasivorana* (Fitch)  
 wedge codlin - *Crociosema plebejana* Zeller  
 verbena bud moth - *Endothenia hebesana* (Walker)  
 vine moth - *Lobesia botrana* (D. & S.)

western blackheaded budworm - *Acleris gloverana* (Wlsm.)  
 western pine tip moth - *Rhyacionia bushnelli* (Busck)  
 western pine shoot borer - *Eucosma sonomana* Kearfott  
 western spruce budworm - *Choristoneura occidentalis* Free.  
 white fir needleminer - *Epinotia meritana* Heinrich  
 white-lined leafroller - *Amorbia humerosana* Clemens  
 white pine cone borer - *Eucosma tocullionana* Heinrich  
 yellowheaded fireworm - *Acleris minuta* (Robinson)

## NEW BOOKS ON TORTRICIDAE

“Tortricidae of Europe, Volume 1, Tortricinae and Chlidanotinae” by Jozef Razowski, published December 2002 by Frantisek Slamka. ISBN: 80-967540-9-2. 247 pages, 8.5” x 12,” price USD 88, hardcover.

This is the first of a two-volume set. The 16 color plates are exquisite with superb images of all Tortricinae and Chlidanotinae recorded from Europe (390 species). Male and female genitalia are illustrated (line drawings) for all species (71 plates), where known. Species accounts are in English include details on synonymy, morphology, biology, and distribution. To purchase go to: <http://www.coronetbooks.com/books/tort4092.htm>.

“Las Polillas de la Fruta en Chile (Lepidoptera: Tortricidae, Pyralidae)” by Roberto Gonzalez R., published November 2003 by Universidad de Chile, Facultad de Ciencias Agronomicas, Santiago, Chile.

This book provides details on the life history, damage, and control of the most important tortricid (and pyraloid) pests of fruit in Chile, with special emphasis on *Cydia pomonella*, *Grapholita molesta*, and *Proeulia* species. There are numerous photographs of adult moths and fine genitalia drawings. To purchase go to: <http://www.uchile.cl/productos/libreriavirtual/libros/polillas.html> or contact Jimena Mora at “[bagrofo@uchile.cl](mailto:bagrofo@uchile.cl)”.

If you have seen recently published works on Tortricidae please pass along the information to me and I will share it with others in the TORTS Newsletter ([jbrown@sel.barc.usda.gov](mailto:jbrown@sel.barc.usda.gov)).

## BOOK REVIEW OF TRIBUTE TO EBBE S. NIELSEN

The following book review by Matthias Nuss recently appeared in *Nota Lepidopterologica*.

“Horak, M. & R. B. Halliday (eds.) 2003. *Lepidoptera Systematics and Biology. A tribute to Ebbe S. Nielsen*. - *Invertebrate Systematics* 17 (1). ISSN 1445-5226. Price Au \$75.00

This special issue of *Invertebrate Systematics* is dedicated to the memory of Ebbe Schmidt Nielsen (7.6.1050-6.3.2001). Ebbe's tremendous beneficial influence on lepidopterology can hardly be described by just a few lines. Niels Peder Kristensen (2001, *Nota Lepidopterologica* 24 (3): 3-9) already reminded of him as a European lepidopterist, as one of the founders of the *Societas Europaea Lepidopterologica*, and as a leader of Australian lepidopterology. *Invertebrate Systematics*, a journal whose Advisory Committee he chaired for several years, now commemorates his life and contributions to science. Contributions were invited from friends and colleagues of Ebbe, who had worked and collaborated with him during his career. J. L. Edwards, R. B. Halliday, M. J. Scoble, and M. Whitten write about Ebbe's leading activities in lepidopterology, his achievements in terms of the management for the Australian National Insect Collection, his bioinformatics legacy and compiled a bibliography of Ebbe. A number of scientific papers were collected and edited by Marianne Horak and Bruce Halliday in order to honour Ebbe and thus his broad impact on lepidopteran systematics, which reaches well beyond the groups that he worked on himself. Just to give examples, the issue includes the description of the new monotrystian moth family *Andesianidae* from South America (by D. R. Davis & P. Gentili), descriptions of the new genera *Plesiozela* (*Heliozelidae*) by O. Karsholt & N. P. Kristensen, *Xanadoses* (*Cecidosidae*) by R. J. B. Hoare & J. S. Dugdale, and *Ebbepterote* (*Eupterotidae*) by R. G. Oberprieler, W. A. Nassig & E. D. Edwards. Several new species are described from Guam, Argentina, New Zealand, Tasmania,

mainland Australia, Japan, Papua New Guinea, and Sulawesi. Studies of host-plant relationships of several lepidopteran groups, a reassessment of the pyralid *Anerastiini*, and a test of Gondwanan ancestry of Australian butterflies are given. The entire issue includes information about so many lepidopteran families from around the world that it will be an important addition to the libraries of Lepidoptera biologists worldwide. All papers included in the journal are of good standard and layout, as a tribute to Ebbe should be. Congratulations to all authors and especially the two editors, Marianne Horak and Bruce Halliday for this fine contribution!

This issue is for sale as a stand-alone title from CSIRO Publishing (<http://www.publish.csiro.au/index.cfm>).

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## SPERLING ON SABBATICAL TO CSIRO, AUSTRALIA IN 2004

TORTS “member” Dr. Felix Sperling, University of Alberta, Canada, will spend the next 8 months on sabbatical leave with TORTS “member” Dr. Marianne Horak at CSIRO in Canberra, Australia. They plan to investigate the higher-level phylogeny of Tortricidae using mitochondrial (COI) and nuclear (EF1a and 28s-D2) DNA sequences. Initially they will evaluate one representative of each tribe. Felix also intends to try his hand at a “classical” revision of a genus based on morphology. Best wishes for a successful collaboration! We are all eager to hear the results of the molecular work.

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## REQUEST FOR SPECIMENS

Dr. Scott Miller, Department of Entomology, National Museum of Natural History, is seeking specimens of *Homona* and *Adoxophyes* for use in molecular analyses. Specimens need not be in good condition, but must be relatively recent. All contributions will be acknowledged. Contact Brown.

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