

TORTS

Newsletter of the
Troop of Reputed Tortricid Systematists

ANNUAL MEETING OF LEPIDOPTERISTS' SOCIETY AT McGUIRE CENTER

The annual meeting of the Lepidopterists' Society was held 15-18 June 2006, at the new McGuire Center for Lepidoptera and Biodiversity, Florida Museum of Natural History, University of Florida, Gainesville, Florida, USA. The meeting was co-hosted by the Lepidopterists' Society, the Southern Lepidopterists' Society, and the Association for Tropical Lepidoptera. It was attended by over 150 lepidopterists from the U.S., Canada, Mexico, several South American countries, several European countries (e.g., Spain, Denmark, Switzerland, Germany), and a couple Asian countries (Japan, Taiwan). The meeting provided many of us with our first glimpse of the McGuire Center, touted to be the future center for Lepidoptera research in North America.

The meeting program included contributed papers, posters, symposium, and workshops. There were 16 student presentations, reflecting the continued increase in the level of student participation at the meetings. Among the informal workshops was a gathering of noctuid specialists, lead by Don Lafontaine and Michael Fibiger, who discussed homologies among genital structures across the superfamily. There also were workshops on the Lepidoptera

Tree of Life Project (led by Charles Mitter and Cyndy Parr) and the DNA-barcode Project (led by Paul Hebert).

Numerous "members" of TORTS were present, including Joaquin Baixeras, John Brown, Richard Brown, Soowon Cho, Jason Dombroskie, Todd Gilligan, Bernard Landry, Jean-François Landry, William Miller, Dan Rubinoff, Felix Sperling, Shen-Horn Yen, and possibly others I did not recognize.

The international flavor of the meeting was stimulating and likely will provide an incentive for many North American lepidopterists to consider attending the SEL meeting in Berlin in 2007.

PASSING OF I. F. B. COMMON

The following correspondence was received by many from CSIRO:

"Dear Colleagues,

It is with great sadness that we have to let you know that Dr Ian Common died in his sleep early this morning (3 June), just a few days before his 89th birthday. He had been professionally active until recently, going on regular collecting trips with his wife Jill.

Ian was one of the most outstanding lepidopterists of our time, not only single-handedly laying the foundation for our understanding of the vast and diverse Australian

fauna but producing seminal studies of world-wide relevance each time he monographed a group. His early research made major contributions towards resolving the taxonomy of many important Lepidoptera pests in Australia. His 1954 paper on the biology of the bogong moth is a classic study on insect migration, elucidating an iconic Australian phenomenon. Some of Ian's most remarkable contributions include the study of the primitive family Lophocoronidae, and the families Anthelidae and Carthaeidae. However, his primary research contributions were concerned with the Tortricinae and Oecophorinae. Based on revisions of Australian groups, Ian made very significant contributions to tortricine systematics and phylogeny relevant well beyond Australia. His single most outstanding achievement is the complete overview of the genera of the Australian Oecophorinae, with some 5000 species in 250 genera the largest family group of Australian Lepidoptera. This three-volume work gives access to one of the largest Australian radiations. Ian's broad and scholarly knowledge of Lepidoptera systematics was summarised in the chapters in *The Insects of Australia* and his 1975 review of the evolution and classification of the Lepidoptera, texts which have inspired lepidopterists around the world.

Ian has always shared his vast knowledge most generously with colleagues as well as with serious amateur naturalists. From the two small Jacaranda pocket guides on Australian moths and butterflies to the comprehensive volumes *Butterflies of Australia* and *Moths of Australia*, he produced extensive contributions which served as textbooks for systematists and as 'bibles' for enthusiasts. Both volumes reflect Ian's unrivalled knowledge of Australian moth biology.

Unlike many of us, Ian managed to put on paper a remarkable proportion of his knowledge in scholarly research publications and of his rich field experience in books, much of it written after retirement.

Although Ian achieved international fame for his work on the higher classification and his revisionary studies, in addition to all this he build up the outstanding Lepidoptera holdings in the ANIC. The collection with its extremely high standard of preservation and curatorial practice is a testimony to Ian's dedication and industry.

Together with colleagues, in particular Murray Upton and Ted Edwards, he undertook a large number of major field expeditions and has continued his tireless efforts in collecting after his retirement until shortly before his death. The arrival at the ANIC of moths collected by Ian always had the feel of opening Christmas parcels.

Ian's status as one of the foremost lepidopterists was acknowledged with numerous honours. He won the Royal Zoological Society of New South Wales' Whitley Medal in 1991 for 'Moths of Australia' for the 'best book on the natural history of Australian animals'. In 1996 he was awarded the Karl Jordan Medal by the Lepidopterists' Society, and in 2001 he was made an Officer of the Order of Australia.

Ian will be missed not only as an exceptional scientist but also as a wonderful colleague and friend. Anybody who has worked with him will remember his quiet but wicked sense of humour, and in his close collaborators this generous, thoughtful scholar inspired the loyalty of a family. His wife Jill's unstinting support throughout his career was a major factor in making all his achievements possible."

Marianne Horak & Ted Edwards - CSIRO

INITIATIVE FOR DEVELOPING A COLLECTION FOR MOLECULAR ANALYSES

Through my involvement in the Lepidoptera Tree-of-Life project, it has become clear that there is precious little material of Tortricidae available for molecular analyses (i.e., frozen tissue samples), and there is no major depository where frozen specimens can be deposited and/or borrowed by researchers worldwide. It also has become clear that molecular analyses are going to be critical for elucidating relationships among the higher level categories (i.e., subfamilies and tribes) within Tortricidae. Hence, development of a collection of frozen specimens is long overdue. Just as our predecessors accumulated material in the collections we use today, we are obligated to gather specimens for those that follow us.

In association with the Tree-of-Life project, a small collection of mostly North American Tortricidae (about 50 species representing all North American tribes) has been assembled at the University of Maryland, and we propose that this collection function as the nucleus for a larger, worldwide collection of specimens suitable for molecular studies. It is our hope that this larger collection will be assembled by and utilized by collaborators throughout the world. Hence, we are soliciting your input regarding your interest in the project, along with comments on its feasibility.

Optimally, multiple specimens of each species should be available in case different researchers request the same species for different projects. However, for some tribes and/or genera that are rare or difficult to obtain, we will have to be particular about how the

material is dispersed. In situations where only a single specimen is available in the collection, extract aliquots may be distributed rather than the specimen itself. We will work with individuals to try to distribute fairly material under these circumstances.

For information on this initiative, check out the new website being developed by Todd Gilligan - <http://www.tortricidna.org>. If you have questions, suggestions, recommendations, or other comments, please feel free to contact John Brown (jbrown@sel.barc.usda.gov) or Todd Gilligan (tgilliga@columbus.rr.com).

TORTRICID CATALOG TO BE CONVERTED INTO DATABASE FORMAT

Joaquin Baixeras, our colleague at the University of Valencia, Spain, has been hard at work converting the tortricid catalog into a database format. The short-term goals are to assemble a comprehensive database of all the names used in Tortricidae, correction conspicuous mistakes in the hard copy of the catalog, continue to add new taxa as they are published, and continue to update the database as new combinations and other taxonomic changes are proposed. You can help facilitate this effort by sending corrections and reprints of new papers to John Brown (jbrown@sel.barc.usda.gov).

The long-term goals are to make the database available via the web and to add fields for geographic distribution of all species, food plants (along with references), and references to illustrations of the adults and genitalia.

Joaquin promises to keep us posted as progress is made.

TORTRICID BIBLIOGRAPHY FOR 2005

- Addison, M. F. 2005. Suppression of codling moth *Cydia pomonella* L. (Lepidoptera: Tortricidae) populations in South African apple and pear orchards using sterile insect release, pp. 555-557. Proceedings of the IXth International Pear Symposium, Stellenbosch, South Africa, 1-6 February, 2004. [Acta Horticulturae 671: 555-557.]
- Aguilera-Peña, M., H. Gonzalez-Hernandez, J. L. Carrillo-Sanchez, F. K. Byerly-Murphy, and M. E. Valdivia-Carreón. 2005. Absence of *Platynota stultana* Walsingham and *Archips argyrospila* Walker (Lepidoptera: Tortricidae) in the State of Mexico, and record of *Protorthodes* spp. (Lepidoptera: Noctuidae). *Agrociencia* (Montecillo) 39: 551-562.
- Andreadis, S. S., P. G. Milonas, & M. Savopoulou-Soultani. 2005. Cold hardiness of diapausing and non-diapausing pupae of the European grapevine moth, *Lobesia botrana*. *Entomologia Experimentalis et Applicata* 117: 113-118.
- Anikin, V. V., S. A. Sachkov, V. V. Zolotuhin, S. V. Nedoshivina & T. A. Trofimova. 2005. "Fauna Lepidopterologica Volgo-Uralensis" 150 years later: changes and additions. Part 9: Tortricidae. (Lepidoptera). *Atalanta* (Markt-leuthen) 36(3-4): 559-572.
- Apps, M. & A. D. McGuire (eds.). 2005. Climate-disturbance interactions in boreal forest ecosystems. International Boreal Forest Research Association 12th Annual Scientific Conference, Fairbanks, Alaska, USA, 3-6 May 2004. *Canadian Journal of Forest Research* 35: 2073-2293. [*Choristoneura*]
- Aubin, I., C. Messier & D. Kneeshaw. 2005. Population structure and growth acclimation of mountain maple along a successional gradient in the southern boreal forest. *Ecoscience* 12: 540-548. [*Choristoneura fumiferana*]
- Bae, Y.-S. 2005. Systematic study of the genus *Phiaris* Hübner (Lepidoptera, Tortricidae) from Korea and Japan, part III. *Tinea* 18 (supplement 3): 124-138.
- Barcenas, N. M., T. R. Unruh & L. G. Neven. 2005. DNA diagnostics to identify internal feeders (Lepidoptera: Tortricidae) of pome fruits of quarantine importance. *Journal of Economic Entomology* 98: 299-306.
- Beljaev, E. A. & M. G. Ponomarenko. 2005. New lepidopterological finds (Lepidoptera: Gelechiidae, Tortricidae, Geometridae) in south of Russian Far East. *Far Eastern Entomologist* 155: 1-11.
- Boivin, T. & B. Sauphanor. 2005. Modelisation de la phenologie du carpocapse des pommes [Modeling codling moth phenology: a need to integrate insecticide resistance]. *Phytoma* 581: 25-27.
- Brown, J. W. et al. 2005. World catalogue of insects. Volume 5: Tortricidae (Lepidoptera). Apollo Books. 741 pp.
- Byun, B. K., K. T. Park & Y.-M. Park. 2005. Review of the genus *Matsumuraeses* Issiki (Lepidoptera, Tortricidae) with discovery of *M. falcana* (Walsingham) in Korea. *Journal of Asia-Pacific Entomology* 8: 117-122.
- Byun, B.-K. & S.-C. Yan. 2005. Description of a new species, records of five previously unrecorded species, and rediscovery of a lost species in the genus *Ancylis* Hübner (Lepidoptera: Tortricidae) from China. *Zootaxa* 1103: 17-26.
- Cadogan, B. L., R. D. Scharbach, R. E. Krause, L. S. Sloane & J. A. Studens. 2005. Linkages between the phenologies of jack

- pine (*Pinus banksiana*) foliage and jack pine budworm (Lepidoptera: Tortricidae). *The Great Lakes Entomologist* 38: 58-75.
- Cai, P., L.-J. Bai, R.-L. Xiang & L. Zhang. 2005. The biological characteristics of the leading pests of loquat and their control. *South China Fruits* 2005 (2): 38-41. [*Homona coffearia*]
- Curkovic, T. & J. F. Brunner. 2005. Residual and sub-lethal effects of an attracticide formulation on *Choristoneura rosaceana* (Harris), *Pandemis pyrusana* Kearfott, and *Cydia pomonella* (L.) males (Lepidoptera: Tortricidae). *Crop Protection* 24(7): 637-641.
- Dalmolin, C. C., F. R. da Silva, L. V. Mello, D. J. Rigden & M. E. B. Castro. 2005. Nucleotide sequence and phylogenetic analyses of the DNA polymerase gene of *Anticarsia gemmatalis* nucleopolyhedrovirus. *Virus Research* 110: 99-109 [*Choristoneura fumiferana*]
- de Armas, L. F. & R. Nuñez. 2005. Malpighiaceae: nueva familia de plantas hospederas de *Platynota rostrana* Walcker, 1863 (Lepidoptera: Tortricidae) [Malpighiaceae: a new family of host plant for *Platynota rostrana* Walker, 1863 (Lepidoptera: Tortricidae)]. *Boletín de la S.E.A.* 36: 354.
- DeLury, N. C., G. J. R. Judd & M. G. T. Gardiner. 2005. Antennal detection of sex pheromone by female *Pandemis limitata* (Robinson) (Lepidoptera: Tortricidae) and its impact on thie calling behaviour. *Journal of the Entomological Society of British Columbia* 102: 3-12.
- Dugdale, J. S. 2005. Three new species of *Tracholena* Common, 1965 (Lepidoptera: Tortricidae: Tortricinae: Schoenotenini) from New Caledonia associated with Araucariaceae. *Zootaxa* 870: 1-16.
- Dugdale, J. S., D. Gleeson, L. H. Clunie & P. W. Holder. 2005. A diagnostic guide to Tortricidae encountered in field surveys and quarantine inspections in New Zealand: morphological and molecular characters. MAF Biosecurity Authority, Wellington, New Zealand. 163 pp.
- El-Sayed, A. M. & D. M. Suckling. 2005. Behavioural observations of mating disruption in three lepidopteran pests. *Behaviour* 142: 717-729. [*Eupoecilia ambiguella*, *Lobesia botrana*]
- Evenden, M. L. 2005. Potential for combining sex pheromones for the forest tent caterpillar (Lepidoptera: Lasiocampidae) and the large aspen tortrix (Lepidoptera: Tortricidae) within monitoring traps targeting both species. *Canadian Entomologist* 137: 615-619.
- Evenden, M. L. & J. R. McLaughlin. 2005. Male Oriental fruit moth response to a combined pheromone-based attracticide formulation targeting both Oriental fruit moth and codling moth (Lepidoptera: Tortricidae). *Journal of Economic Entomology* 98: 317-325.
- Evenden, M. L., J. R. McLaughlin & D. Czokajlo. 2005. Effects of exposure to pheromone and insecticide constituents of an attracticide formulation on reproductive behavior of Oriental fruit moth (Lepidoptera: Tortricidae). *Journal of Economic Entomology* 98: 334-341.
- Ferris, C. D. 2005. A new species of *Eucosma* Hübner from the western United States (Lepidoptera: Tortricidae: Eucosmini). *Zootaxa* 806: 1-8.
- Florentine, S. K., A. Raman & K. Dhilepan. 2005. Effects of gall induction by *Epiblema strenuana* on gas exchange, nutrients, and

- energetics in *Parthenium hysterophorus*. *BioControl* 50: 787-801.
- Fukova, I., R. Nguyen & M. Frantisek. 2005. Codling moth cytogenetics: karyotype, chromosomal location of rDNA, and molecular differentiation of sex chromosomes. *Genome* 48: 1083-1092.
- Gharali B., H. A. Lotfalizadeh, E. Ebrahimi & M. Zerova. 2005. Record of *Monodontomerus aereus* (Hym.: Torymidae) from Iran. *Journal of Entomological Society of Iran* 25: 00-00. [Tortricidae]
- Gregersen, K. 2005. *Epinotia pusillana* (Peyerimhoff, 1863) (Tortricidae) fundet i Danmark [*Epinotia pusillana* (Peyerimhoff, 1863) (Tortricidae) found in Denmark]. *Lepidoptera (Copenhagen)* 8(10): 317-319.
- Gyoutoku, N. 2005. *Makivora hagiya* Oku (Tortricidae, Olethreutinae) from Fukuoka Prefecture, Kyushu. *Japan Heterocerists' Journal* 235: 188.
- Hoffmann, A. A., R. E. Woods, E., Collins, K. Wallin, A. White & J. A. McKenzie. 2005. Wing shape versus asymmetry as an indicator of changing environmental conditions in insects. *Australian Journal of Entomology* 44(3): 233-243. [*Epiphyas postvittana*]
- Hofmeyr, J. H., J. E. Carpenter & S. Bloem. 2005. Developing the sterile insect technique for *Cyrtophlebia leucotreta* (Lepidoptera: Tortricidae): influence of radiation dose and release ratio on fruit damage and population growth in field cages. *Journal of Economic Entomology* 98: 1924-1929.
- Honda, J. 2005. Partitioning native and augmentative *Trichogramma platneri* (Hymenoptera: Trichogrammatidae) parasitism of *Amorbia cuneana* (Lepidoptera: Tortricidae) egg masses in southern California avocado orchards. *Florida Entomologist* 88: 325-326.
- Hua, L.-Z. 2005. (VII) Superfamily Tortricioidea, pp. 28-43. In: *List of Chinese Insects*, volume III. Sun Yat-Sen University Press, Guangzhou, China.
- Huisman, K. J., J. C. Koster, E. J. van Nieukerken & S. A. Ulenberg. 2005. Microlepidoptera in Nederland in 2003. *Entomologische Berichten (Amsterdam)* 65(2): 30-42. [*Gynnidomorpha minimana*, *Endothenia oblongana*, *Crociosema plebejana*, *Cydia indivisa*]
- Issacs, R., K. S. Mason & E. Maxwell. 2005. Stage-specific control of grape berry moth, *Endopiza viteana* (Clemens) (Lepidoptera: Tortricidae), by selective and broad-spectrum insecticides. *Journal of Economic Entomology* 98: 415-422.
- Jaroš, J. & J. Liska. 2005. The geographic range of *Rhyacionia hafneri* (Rebel, 1937) (Tortricidae). *Nota Lepidopterologica* 28: 69.
- Jaroš, J. & K. Spitzer. 2005. A unique tortricid moth *Cydia alazon* (Diakonoff, 1976), associated with the endemic pine (*Pinus canariensis*) in the Canary Islands, Spain (Lepidoptera: Tortricidae). *SHILAP Revista de Lepidopterologia* 33: 45-48.
- Jiggins, C. D., I. Emelianov & J. Mallet. 2005. Assortative mating and speciation as pleiotropic effects of ecological adaptation: examples in moths and butterflies, pp. 455-477. In: Fellowes, M. D. E., G. J. Holloway & J. Rolff (eds.), *Insect evolutionary ecology: Proceedings of the Royal Entomological Society's 22nd Symposium*, Reading, UK. [*Zeiraphera diniana*]
- Karisch, T. 2005. Zur Kenntnis von *Aethes cremonana* (Ragonot, 1894) un ähnlicher Arten der Gattung *Aethes* Billberg, 1825

- (Lepidoptera: Tortricidae, Cochylini). Entomofauna, Zeitschrift für Entomologie 26 (5): 45-56.
- Karisch, T. 2005. Uebersicht ueber die Gattung *Dracontogena* Diakonoff 1970 (Lepidoptera: Tortricidae: Olethreutinae: Grapholitini) [Overview of the genus *Dracontogena* Diakonoff 1970 (Lepidoptera: Tortricidae: Olethreutinae: Grapholitini)]. Linzer Biologische Beiträge 37(1): 457-476.
- Karisch, T. 2005. Ein neuer wickler aus Angola (Lepidoptera, Tortricidae, Olethreutinae). Lambillonea 105: 500-503.
- Karisch, T. & M. Stanescu. 2005. On the presence of *Acleris boscanoides* Razowski, 1959 and *Dischrorampha baixerasana* Trematerra, 1991 (Lepidoptera: Tortricidae) in Romania. Travaux du Muséum National d'Historie Naturelle "Grigore Antipa" 48: 203-211.
- Karsholt, O., L. Aarvik, D. Agassiz, P. Huemer & K. Tuck. 2005. *Acleris effractana* (Hübner, 1799) - a Holarctic tortricid. Nota Lepidopterologica 28: 93-102.
- Knill-Jones, S. 2005. Species of Lepidoptera new to the Isle of Wight in 2004. Entomologist's Record and Journal of Variation 117(3): 106.
- Kogi, H. 2005. Moths feeding on *Quercus dentata* as larvae in Hokkaido 10. Japan Heterocerists' Journal 233: 149-151.
- Kuznetsov, V. I. 2005. *Cochylimorpha razowskiana* nom. n. for *C. pallens* (Kuznetsov, 1966) (Lepidoptera: Cochylidae). Zoosystematica Rossica 14(1) 2005: 178.
- Lacey, L. A., S. P. Arthurs & H. Headrick. 2005. Comparative activity of the codling moth granulovirus against *Grapholita molesta* and *Cydia pomonella* (Lepidoptera: Tortricidae). Journal of the Entomological Society of British Columbia 102: 79-80.
- Lacey, L. A., L. G. Neven, H. L. Headrick & R. Fritts. 2005. Factors affecting entomopathogenic nematodes (Steinernematidae) for control of overwintering codling moth (Lepidoptera: Tortricidae) in fruit bins. Journal of Economic Entomology 98: 1863-1869.
- Lee, S. Y., H. Park, K. S. Boo, K.-T. Park and S. Cho. 2005. Molecular identification of *Adoxophyes honmai* (Yasuda) (Lepidoptera: Tortricidae) based on mitochondrial COI gene sequences. Molecules and Cells 19: 391-397.
- Marsik, L. 2005. Faunistic records from the Czech Republic - 185 Lepidoptera: Tortricidae. Klapalekiana 41(1-2): 87. [*Crocidosema plebejana*]
- McCravy, K. W. & C. W. Berisford. 2005. Weight change of overwintering Nantucket pine tip moth (Lepidoptera: Tortricidae) pupae in the Georgia Piedmont and Coastal Plain. Journal of Entomological Science 40: 343-346.
- Miller, W. E. 2005. Gall-inducing Lepidoptera, pp. 431-465. In: Raman, A., C. A. Schaefer & T. Withers (eds.), Biology, Ecology, and Evolution of gall-inducing arthropods. Science Publishers, Inc., Enfield, New Hampshire, U.S.A. and Plymouth, U.K.
- Nakai, M., T. Shiotsuki & Y. Kunimi. 2005. An entomopoxvirus and a granulovirus have different impacts on *Adoxophyes honmai* (Tortricidae, Lepidoptera) simultaneously parasitized by *Ascogaster reticulatus* (Braconidae: Hymenoptera). Biological Control 33: 230-237.
- Nasu, Y., F. Komai & M. Murase. 2005. New record of *Noduliferola abstrusa* Kuznetsov (Lepidoptera, Tortricidae, Olethreutinae) from Japan, with description of the immature stages. Tinea 18 (supplement 3):

- 115-123.
- Nasu, Y. & S. Tominga. 2005. *Rhopobota grypodes* (Meyrick) (Lepidoptera, Tortricidae, Olethreutinae), a newly recorded species from Japan, with descriptions of the immature stages. Transactions of the Lepidopterological Society of Japan 56: 267-275.
- Nealis, V. G. 2005. Diapause and voltinism in western 2-year-cycle spruce budworms (Lepidoptera: Tortricidae) and their hybrid progeny. Canadian Entomologist 137: 584-597.
- Nedoshivina, ? 2005. A new subspecies of *Pelatea klugiana* (Freyer, 1836) from the Middle Volga Region of Russia with notes on its morphology and life history (Tortricidae). Nota Lepidopterologica 28: 3-?
- Novotny, V., S. E. Miller, Y. Basset, L. Cizek, K. Darrow, B. Kaupa, J. Kua & G. D. Weiblen. 2005. An altitudinal comparison of caterpillar (Lepidoptera) assemblages on *Ficus tress* in Papua New Guinea. Journal of Biogeography 32: 1303-1314.
- Nozawa, A. & N. Inari. 2005. Abundance of inflorescence tissue feeders on three willow species. Entomological Science 8 (1): 9-15.
- O'Hara, J. E. A. 2005. Review of the tachinid parasitoids (Diptera: Tachinidae) of Nearctic *Choristoneura* species (Lepidoptera: Tortricidae), with keys to adults and puparia. Zootaxa 938:1-46.
- Oku, T. 2005. Some olethreutine moths (Lepidoptera: Tortricidae) from Japan confused with or allied to other known species. Tinea 18 (supplement 3): 96-114.
- Patocka, J. & M. Turcani. 2005. Lepidoptera pupae: central European species (two volumes). Apollo Books, Stenstrup. 542 pp., 321 pp.
- Philip, M. M., D. B. Orr & F. P. Hain. 2005. Evaluation of biological biorational control tactics for suppression of Nantucket pine tip moth damage in Virginia pine Christmas trees. Journal of Economic Entomology 98: 409-414.
- Pinkaew, N., A. Chandrapatya & R. Brown. 2005. Two new species and a new record of *Eucoenogenes* Meyrick (Lepidoptera: Tortricidae) from Thailand with a discussion of characters defining the genus. Proceedings of the Entomological Society of Washington 107: 869-882.
- Pohl, G. R., C. D. Bird, J.-F. Landry & G. G. Anweiler. 2005. New records of microlepidoptera in Alberta, Canada. Journal of the Lepidopterists' Society 59: 61-82.
- Pooni, H. S. & H. S. Rose. 2005. *Anathamna neospermatophaga* sp. nov. (Enarmoniini: Olethreutinae: Tortricidae) from western Himalaya, India. Entomon 30: 237-241.
- Razowski, J. 2005. Review of *Neocalyptis* Diakonoff, 1941 (Lepidoptera: Tortricidae) with description of five new species. Polskie Pismo Entomologiczne 74: 137-148.
- Razowski, J. 2005. Notes and descriptions of primitive Tortricini from tropical Africa, with a list of Asian taxa (Lepidoptera: Tortricidae). SHILAP Revista de Lepidopterologia 33: 423-436.
- Razowski, J. 2005. Descriptions and rectifications in Asian Cochylini (Lepidoptera: Tortricidae). Polskie Pismo Entomologiczne 74: 431-438.
- Razowski, J. 2005. Tortricidae (Lepidoptera) from South Africa. 1: Tortricini and Cochylini. Polskie Pismo Entomologiczne 74: 495-508.
- Razowski, J. & J. Brown. 2005. Review of *Oregocerata* Razowski (Lepidoptera:

- Tortricidae: Euliini), with descriptions of four new species. Proceedings of the Entomological Society of Washington 107: 903-913.
- Razowski, J. & V. Pelz. 2005. Remarks on Neotropical Chlidanotini with a new species of *Macrochlidia* Brown, 1990 and seven new species of *Heppnerographa* Razowski, 1987 from Ecuador (Lepidoptera: Tortricidae). Entomologische Zeitschrift 115(4): 165-171.
- Razowski, J. & V. Pelz. 2005. *Exoletuncus* Razowski, 1988 from Ecuador, with description of seven species (Lepidoptera: Tortricidae, Euliini). SHILAP Revista de Lepidopterologia 33: 327-339.
- Razowski, J. & V. Pelz. 2005. New species of *Gorytvesica* Razowski, 1997 and *Transtillaspis* Razowski 1987 (Lepidoptera: Tortricidae: Euliini) from Ecuador. Acta Zoologica Cracoviensia 48: 57-94.
- Razowski J. & V. Pelz. 2005. *Lobogenesis* Razowski, 1990 (Lepidoptera: Tortricidae: Euliini) from Ecuador, with description of ten new species. Polskie Pismo Entomologiczne 74: 439-453.
- Roos, P. H. 2005. *Cacoecimorpha pronubana* (Huebner, 1799) im suedlichen Ruhrgebiet (Lep., Tortricidae) [*Cacoecimorpha pronubana* (Huebner, 1799) in the southern part of the Ruhr area]. Melanargia 17(2-3): 86-87.
- Rose, H. S. & H. S. Pooni. 2005. Taxonomic studies on the family Tortricidae (Tortricoidea: Lepidoptera) from northwestern India - tribe Eucosmini (Olethreutinae). Zoos' Print Journal 20(2): 1751-1765.
- Sackett, T. E., C. M. Buddle & P. S. Chapman. 2005. Effect of kaolin on fitness and behavior of *Choristoneura rosaceana* (Lepidoptera: Tortricidae) larvae. Journal of Economic Entomology 98: 1648-1653.
- Sauter, W. & S. Whitebread. 2005. Die Schmetterlinge der Schweiz. 9. Nachtrag. Mitteilungen der Schweizerischen Entomologischen Gesellschaft 78: 59-115.
- Seven, S., M. Ozdemir & Y. B. Ozdemir Vildan. 2005. On the species of *Rhyacionia* Hübner [1825] (Lepidoptera: Tortricidae) in Turkey. Phytoparasitica 33: 123-128.
- Sheng, M.-L. & Y.-Y. Zhang. 2005. A new record of the genus *Lissonota* Gravenhorst (Hymenoptera: Ichneumonidae) parasitizing cone-borers. Entomotaxonomia 27: 310-311. [Petrova]
- Stadler, T., A. Fornes & M. Buteler 2005. Interfacial forces and permeation of the codling moth cocoon silk. Bulletin of Insectology 58: 57-64.
- Stireman, J. O., III, J. D. Nason & S. B. Heard. 2005. Host-associated genetic differentiation in phytophagous insects: general phenomenon or isolated exceptions? Evidence from a goldenrod-insect community. Evolution 59: 2573-2587. [Epiblema]
- Sumpich, J., M. Zemlicka, T. Dobrovsky, I. Dvorak & J. Moravec. 2005. Faunistic records from the Czech Republic - 184 Lepidoptera: Gelechiidae, Tortricidae, Geometridae, Noctuidae. Klapalekiana 41(1-2): 85-87. [*Phtheochroa pulvillana*, *Olethreutes dissolutanus*]
- Svensson, I. 2005. Intressanta fynd av fjällfjärilar i Sverige 2004 [Remarkable records of Microlepidoptera in Sweden during 2004]. Entomologisk Tidskrift 126: 21-33. [*Acleris stettinensis*, *Clepsis nybomi*, *Cnephasia alticolana*, *Eucosma fulvana*]
- Triseleva T. A. & A. F. Safonkin. 2005. Morphology of mouthpart and antenna sensory system in five instar larvae of the

- apple surface-eating tortricid *Archips podana*. Zoologicheskii Zhurnal (Moscow) 84: 1092-1097. [In Russian]
- Tyshenko, M. G., D. Doucet & V. K. Walker. 2005. Analysis of antifreeze proteins within spruce budworm sister species. Insect Molecular Biology 14: 319-326.
- Ullastre, J. Y. & R. M. Vila. 2005. Nuevas e interesantes especies de tortricidos de la Península Ibérica (Lepidoptera: Tortricidae) [New and interesting species of tortricids from the Iberian Peninsula]. SHILAP Revista de Lepidopterologia 33: 197-201.
- Vallat, A. & S. Dorn. 2005. Changes in volatile emissions from apple trees and associated response of adult female codling moths over the fruit-growing season. Journal of Agricultural and Food Chemistry 53: 4083-4090.
- Vargas, H. A. 2005. New distributional records for *Cryptophlebia cortesi* Clarke (Lepidoptera: Tortricidae). Idesia 21: 125-127.
- Waldbauer, G. 2005. Insights from insects: what bad bugs can teach us. Prometheus Books, New York. 311 pp. [*Cydia pomonella*]
- Wan, Y.-J., R.-H. Liu & Z.-R. Shen. 2005. A new microsporidium (Microsporida, Burenellidae) from the insect of Lepidoptera, *Cerace stipatana* (Walker). Acta Zootaxonomica Sinica 30(2): 291-294.
- Wang, S.-L., C.-F. Sheng, C.-L. Qiao & M. Tadashi. 2005. CDNA sequence analysis of ribosomal protein S13 gene in *Plutella xylostella* (Lepidoptera: Plutellidae). Insect Science 12: 225-229. [*Choristoneura parallela*]
- Wang, X.-P. & H.-H. Li. 2005. A new genus and species of Tortricinae (Lepidoptera: Tortricidae) from China. Entomologica Fennica 16: 263-265.
- Welter, S. C., C. Pickel, J. Millar, F. Cave, R. A. Steenwyk & J. van Dunley. 2005. Pheromone mating disruption offers selective management options for key pests. California Agriculture 59: 16-22.
- Wigley, P. J., V. V. Madhusudhan, P. J. Cameron & A. H. Broadwell. 2005. *Bacillus thuringiensis* as a marker for insect dispersal studies. New Zealand Journal of Crop and Horticultural Science 33: 139-142. [*Epiphyas postvittana*]
- Williamson, J. R. & D. T. Johnson. 2005. Effects of grape berry moth management practices and landscape on arthropod diversity in grape vineyards in the Southern United States. HortTechnology 15: 232-238.
- Wright, D. J. 2005. Some Eucosmini (Tortricidae) associated with *Eucosma emaciatana* (Walsingham) and *Eucosma totana* Kearfott; four new species, a new combination, and a new synonymy. Journal of the Lepidopterists' Society 59: 121-133.
- Yu, H. & H.-H. Li. 2005. First record of the genus *Rhopaltriplasia* from China, with descriptions of two new species (Lepidoptera: Tortricidae: Olethreutinae). Zootaxa 1082: 29-35.
- Zhang, A.-H. & H.-H. Li. 2005. A systematic study on the genus *Pseudacroclita* Oku (Lepidoptera: Tortricidae: Olethreutinae). Acta Entomologica Sinica 48: 396-400.
- Zhang, A. H & H. H. Li. 2005. A systematic study on the genus *Eucoenogenes* (Lepidoptera: Tortricidae, Olethreutinae) from China. Entomotaxonomia 27: 125-129.
- Zhang, A.-H. & H.-H. Li. 2005. Catalogue of Eucosmini from China (Lepidoptera: Tortricidae). SHILAP Revista de Lepidopterologia 33: 265-298.

Zhang, A.-H., H.-H. Li & S. Wang. 2005. Study on the genus *Rhopobota* Lederer from China (Lepidoptera: Tortricidae: Olethreutinae). *Entomologica Fennica* 16: 273-286.

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