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Professional Societies (current membership, with year of joining)

Fellow: Royal Entomological Society of London, 1967
Life Member: Entomological Society of Southern Africa, 1965
Member: Kansas Entomological Society, 1969
Member: Society of Systematic Biology, 1969
Member: Sigma Xi, the Scientific Research Society, 1970
Member: Royal Society of South Africa, 1979
Member: Australian Entomological Society, 1981
Member: International Society of Hymenopterists, 1984
Member: Zoological Society of Southern Africa, 1985
Member: Willi Hennig Society, 1985
Member: Natal Evolutionary Biology Society, 1989
Founder Member: Southern African Society for Systematic Biology, 1999
Founder Member: International Palaeoentomological Society, 2001

Research interests mainly in biology and systematics of "lower" aculeate Hymenoptera (specially Mutillidae, Bradynobaenidae, Scolebythidae and Plumariidae), evolution and fossil record of Hymenoptera (specially Aculeata), and principles and practice of biological systematics.

Current postgraduate supervision

PhD

"Phylogeography/biological control", Y. Assefa (Co-Supervisor)
"Molluscan systematics", T.C. Nangammbi (Co-Supervisor)
"Dynamics of lepidopteran stemborers in Kenya", G.O. Ong'amo (Co-Supervisor)

MSc

"Systematics of bees", G. Davies
"Phylogeography of sugarcane whitegrubs in South Africa", G. Dittrich (Co-Supervisor)
"The pompilid wasp pollination system in South Africa", A. Shuttleworth (Co-Supervisor)

Current professional offices

President: International Commission on Zoological Nomenclature
President: International Society of Hymenopterists
President: International Palaeoentomological Society
Vice Chairperson: Council of the Natal Museum
Member of Editorial Boards: "Durban Museum Novitates", "African Invertebrates", "Entomotropica"

Selected publications

BROTHERS, D.J. & V.C. MORAN. 1969. A new species of *Tetrastichus* Haliday, 1844 (Hymenoptera: Eulophidae) parasitic on the nymphs of *Paurocephala calodendri* Moran (Homoptera: Psyllidae). *Proceedings of the Royal Entomological Society of London (B)* 38(3-4):40-46.
BROTHERS, D.J. 1972. Biology and immature stages of *Pseudomethoca* f. *frigida*, with notes on other species (Hymenoptera: Mutillidae). *University of Kansas Science Bulletin* 50(1):1-38.
MICHENER, C.D. & D.J. BROTHERS. 1974. Were workers of eusocial Hymenoptera initially altruistic or oppressed? *Proceedings of the National Academy of Sciences of the USA* 71(3):671-674.
BROTHERS, D.J. & C.D. MICHENER. 1974. Interactions in colonies of primitively social bees. III. Ethometry of division of labor in *Lasioglossum zephyrum* (Hymenoptera: Halictidae). *Journal of Comparative Physiology* 90(2):129-168.
BROTHERS, D.J. 1974. The genera of Plumariidae, with description of a new genus and species from Argentina (Hymenoptera: Bethyloidea). *Journal of the Entomological Society of Southern Africa* 37(2):351-356.
BROTHERS, D.J. 1975. Phylogeny and classification of the aculeate Hymenoptera, with special reference to Mutillidae. *University of Kansas Science Bulletin* 50(11):483-648.
BROTHERS, D.J. 1976. Modification of the metapostnotum and origin of the 'propodeal triangle' in Hymenoptera Aculeata. *Systematic Entomology* 1(3):177-182.
BROTHERS, D.J. 1978. Biology and immature stages of *Myrmosula parvula* (Hymenoptera: Mutillidae). *Journal of the Kansas Entomological Society* 51(4):698-710.
BROTHERS, D.J. 1983. Nomenclature at the ordinal and higher levels. *Systematic Zoology* 32(1):34-42.

- BROTHERS, D.J. 1984. Gregarious parasitoidism in Australian Mutillidae (Hymenoptera). *Australian Entomological Magazine* 11(1):8-10.
- BROTHERS, D.J. 1985. Species concepts, speciation, and higher taxa. In: E.S. Vrba (ed.), *Species and Speciation*. Transvaal Museum Monographs 4:35-42.
- MANNING, J.C. & D.J. BROTHERS. 1986. Floral relations of four species of *Rediviva* in Natal (Hymenoptera: Apoidea: Melittidae). *Journal of the Entomological Society of Southern Africa* 49(1):107-114.
- JACOT-GUILLARMOD, C.F. & D.J. BROTHERS. 1986. Catalogue of Thysanoptera of the world (Part 7). *Annals of the Cape Provincial Museums (Natural History)* 17(1):1-93.
- BROTHERS, D.J. 1989. Alternative life-history styles of mutillid wasps (Insecta, Hymenoptera). In: M.N. Bruton (ed.), *Alternative Life-History Styles of Animals. Perspectives in Vertebrate Science* 6:279-291.
- NEWBERRY, K. & D.J. BROTHERS. 1990. Problems in the Recognition Concept of species: an example from the field. *South African Journal of Science* 86:4-6.
- BROTHERS, D.J. & K. NEWBERRY. 1990. Interspecific mating in bedbugs does not support the Recognition Concept of species: Comments on Ferguson. *South African Journal of Science* 86:176-177.
- BROTHERS, D.J. 1992. The first Mesozoic Vespidae from the southern hemisphere, Botswana (Hymenoptera). *Journal of Hymenoptera Research* 1:119-124.
- BROTHERS, D.J. & A.T. FINNAMORE. 1993. Superfamily Vespoidea. In: H. Goulet & J.T. Huber (eds), *Hymenoptera of the World: An Identification Guide to Families*. Research Branch Agriculture Canada, Ottawa. pp. 161-278.
- BROTHERS, D.J. & J.M. CARPENTER. 1993. Phylogeny of Aculeata: Chrysoidea and Vespoidea (Hymenoptera). *Journal of Hymenoptera Research* 2:227-302.
- BROTHERS, D.J. 1994. A new genus and four new species of Mutillidae associated with *Brachyponera lutea* Mayr (Formicidae) in Western Australia. *Journal of the Australian Entomological Society* 33:143-152.
- BAYLISS, P.S. & D.J. BROTHERS. 1996. Biology of *Tricholabiodes Radoszkowski* in Southern Africa, with a new synonymy and review of recent biological literature (Hymenoptera: Mutillidae). *Journal of Hymenoptera Research* 5:249-258.
- MITCHELL, A. & D.J. BROTHERS. 1998. Revision and cladistic analysis of the Afrotropical genus *Areotilla* (Hymenoptera: Mutillidae). *African Entomology* 6:193-214.
- BROTHERS, D.J. 1999. Phylogeny and evolution of wasps, ants and bees (Hymenoptera, Chrysoidea, Vespoidea and Apoidea). *Zoologica Scripta* 28:233-249.
- PULAWSKI, W.J., A.P. RASNITSYN, D.J. BROTHERS & B.R. ARCHIBALD. 2000. New Genera of Angarosphecinae: *Cretosphecium* from Early Cretaceous of Mongolia and *Eosphecium* from Early Eocene of Canada (Hymenoptera: Sphecidae). *Journal of Hymenoptera Research* 9(1):34-40.
- BROTHERS, D.J., G. TSCHUCH & F. BURGER. 2000. Associations of mutillid wasps (Hymenoptera: Mutillidae) with eusocial insects. *Insectes Sociaux* 47(3):201-211.
- TSCHUCH, G. & D.J. BROTHERS. 2000. Stridulatory organs in solitary aculeate Hymenoptera. *Zoologischer Anzeiger* 239(4):319-327.
- BAYLISS, P.S. & D.J. BROTHERS. 2001. Behaviour and host relationships of *Dolichomutilla scyorax* (Smith, 1855) (Hymenoptera: Mutillidae, Sphecidae). *Journal of Hymenoptera Research* 10(1):1-9.
- MASTERS, J.C. & D.J. BROTHERS. 2001 (2002). Lack of congruence between morphological and molecular data in reconstructing the phylogeny of the Galagonidae. *American Journal of Physical Anthropology* 117(1):79-93.
- MITCHELL, A. & D.J. BROTHERS. 2002. Phylogeny of the genera of Ticoptinae (Hymenoptera: Mutillidae). *Journal of Hymenoptera Research* 11(2):312-325.
- BROTHERS, D.J. 2003. Insects and other Hexapodous Arthropods. In: *Biological Systematics*, edited by G. Contrafatto, & A. Minelli, from *Encyclopedia of Life Support Systems (EOLSS)*, Developed under the auspices of the UNESCO, Eolss Publishers, Oxford. [<http://www.eolss.net>]
- BROTHERS, D.J. & A.P. RASNITSYN. 2003. Diversity of Hymenoptera and other insects in the Late Cretaceous (Turonian) deposits at Orapa, Botswana: a preliminary review. *African Entomology* 11(2):221-226.
- BROTHERS, D.J. 2003. The first fossil Ephutini (Hymenoptera: Mutillidae), a new species from Dominican amber. *Acta Zoologica Cracoviensia* 46(Suppl.):101-107.
- DLUSSKY, G.M., D.J. BROTHERS & A.P. RASNITSYN. 2004. The first Late Cretaceous ants (Hymenoptera: Formicidae) from southern Africa, with comments on the origin of the Myrmicinae. *Insect Systematics and Evolution* 35(1):1-13.