

PUBLICATIONS OF THOMAS KENNETH WOOD (1942–2002)

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Abstract.—This annotated bibliography lists the publications to date of Thomas K. Wood, late Professor of Entomology at the University of Delaware, Newark. Of 52 published works, 50 are on Tom's beloved treehoppers (Insecta: Hemiptera: Membracidae). Wood's dissertation and three other unpublished works are also listed. Additionally, future publications based on collaborative efforts in progress will likely bear his name. A chronological index to Wood's contributions is included.

Key Words: Thomas K. Wood, publications, bibliography, treehoppers, Membracidae, *Enchenopa*

The life and scientific achievements of Professor Tom Wood (Fig. 1) were fittingly documented by Kelley Tilmon (2002). Although strongly focused on the family Membracidae (treehoppers), Tom's "research spanned an amazing range of biological disciplines" (Tilmon 2002), including anatomy, physiology, molecular and morphological systematics, ecology, genetics, evolution, biogeography, behavioral and social biology, and life history patterns.

Dr. Tilmon also organized a symposium entitled "Populations, Species, and Phylogenies: Evolution in Insect-Plant Systems (in Memory of Thomas K. Wood)" for the 2003 National Meeting of the Entomological Society of America in Cincinnati, Ohio.

As a further tribute to the significance and lasting value of Tom's contributions, we here present a comprehensive listing of his works arranged alphabetically by author (Table 1 gives an index by year). At the time of his death, Tom had several collaborative research projects in progress and thus a number of future papers will also

likely bear his name, notably an ongoing field experiment on sympatric speciation (initiated in 1995) and an extensive molecular phylogeny of the Membracidae. A copy of each of the 52 publications and 4 unpublished manuscripts listed is held in Deitz's collection of literature on treehoppers (Deitz and Kopp 1987, Deitz 1989)—54 works are on membracids and 2 early papers are on pesticide residues in forage crops. Wood's dissertation and many subsequent papers treated "*Enchenopa binotata*," which he ultimately demonstrated to be a complex of at least nine biologically distinct sibling species. Based on this profusion of work, the *Enchenopa binotata* species complex has become a model system for the study of evolution and sympatric speciation (Futuyma 1999).

Tom's was a life cut short, but lived to the fullest. He jumped at every chance to collect or talk about treehoppers, whether in the U.S. or abroad (Fig. 1 [Cardiff, Wales]). In 1993, Tom initiated a small informal gathering of membracid workers in



Fig. 1. Treehopper workers Tom Wood and Imtiaz Ahmad (of Karachi, Pakistan) at the 10th International Auchenorrhyncha Congress, September 1999, Cardiff, Wales.

the Eastern United States. We were fortunate to be among those invited to join the group at the University of Delaware (Fig. 2). In subsequent years, the aggregation of “Membraskateers” moved to Little Orleans, Allegany County, Maryland, where it grew larger and became an annual tradition. Tom’s colleagues and students, including all who gathered at Little Orleans, will long be inspired by his enthusiasm for science and for everything related to treehoppers.

BIBLIOGRAPHY OF T. K. WOOD

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- Keese, M. C. and T. K. Wood. 1991. Host-plant mediated geographic variation in the life history of *Platycotis vittata* (Homoptera: Membracidae). *Ecological Entomology* 16(1): 63–72.
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- Nault, L. R., T. K. Wood, and A. M. Goff. 1974. Treehopper (Membracidae) alarm pheromones. *Nature* (London) 249(5455): 387–388 [on *Entylia concava* (as *bactriana*), *Publilia concava*, and *Vanduzee* (as *Vanduzee*) *arquata*].
- Olmstead, K. L. and T. K. Wood. 1990a. Altitudinal patterns in species richness of Neotropical treehoppers (Homoptera: Membracidae): the role of ants. *Proceedings of the Entomological Society of Washington* 92(3): 552–560 [list of 84 membracid genera in Columbia, Appendix A].
- Olmstead, K. L. and T. K. Wood. 1990b. The effect of clutch size and ant attendance on egg guarding by *Entylia bactriana* (Homoptera: Membracidae). *Psyche* 97(1–2): 111–120 [on *Entylia concava* (as *bactriana*), with notes on *Publilia concava* and *P. reticulata*].
- Pratt, G. F., S. Datz, and T. K. Wood. 1990 [unpublished]. Morphological and electrophoretic analy-



Fig. 2. First annual gathering of Eastern U.S. treehopper workers organized by T. K. Wood, at his home in Newark, Delaware, 14 May 1993. Top row (left to right): Tom Greene, Tom Wood, Rex Cocroft, Stuart McKamey, Chris Dietrich; bottom row: Lewis Deitz, Kelley Tilmon, Jason Cryan, Charles Bartlett, Diana McPherson [later McPherson Bartlett].

ses using the same individuals of the different host races of *Enchenopa binotata*, pp. [75]. In Abstracts: Combined Meetings of the 7th International Auchenorrhyncha Congress and the 3rd International Workshop on Leafhoppers and Planthoppers of Economic Importance, August 13–17, 1990, Wooster, Ohio, USA [97 unnumbered pages; abstract; disclaimer on first page indicates this work is not to be considered published].

Pratt, G. [F.] and T. K. Wood. 1992. A phylogenetic analysis of the *Enchenopa binotata* species complex (Homoptera: Membracidae) using nymphal characters. *Systematic Entomology* 17(4): 351–357 [with notes on *Campylenchia latipes*, *Enchenopa brevis*, and *E. porrecta*].

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Tallamy, D. W. and T. K. Wood. 1986. Convergence patterns in subsocial insects. *Annual Review of Entomology* 31: 369–390 [notes on Aetalionidae, Membracidae, *Publilia reticulata*, and *Entylia concava* (as *bactriana*)].

Tilmon, K. J., T. K. Wood, and J. D. Pesek. 1998. Genetic variation in performance traits and the po-

tential for host shifts in *Enchenopa* treehoppers (Homoptera: Membracidae). *Annals of the Entomological Society of America* 91(4): 397–403 [discussion of *E. binotata* species complex on novel host plants in the genus *Viburnum*].

Wood, T. K. 1968 [unpublished]. The Chemical Composition, Host Plant Variation and Overwintering Survival Value of the Egg Froth of the Membracid, *Enchenopa binotata* Say. Ph.D. Dissertation, Cornell University, Ithaca, New York. iv + 88 pp.

Wood, T. K. 1969. The chemical composition, host variation and overwintering survival value of the egg froth of the membracid, *Enchenopa binotata* Say. *Dissertation Abstracts (B)* 29(12): 4700 [abstract from Wood 1968, above].

Wood, T. K. 1974. Aggregating behavior of *Umbonia crassicornis* (Homoptera: Membracidae). *Canadian Entomologist* 106(2): 169–173 [with notes on 11 other membracid genera].

Wood, T. K. 1975a. Studies on the function of the membracid pronotum (Homoptera) II. Histology. *Proceedings of the Entomological Society of Washington* 77(1): 78–82 [on *Umbonia crassicornis*].

Wood, T. K. 1975b. Defense in two pre-social membracids (Homoptera: Membracidae). *Canadian Entomologist* 107(11): 1227–1231 [on *Platycotis vittata* and *Umbonia crassicornis*].

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- Wood, T. K. 1977a. Role of parent females and attendant ants in the maturation of the treehopper, *Entylia bactriana* (Homoptera: Membracidae). *Sociobiology* 2(4): 257–272 [on *Entylia concava* (as *bactriana*), with notes on *Platycotis vittata* and *Umbonia crassicornis*].
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- Wood, T. K., K. J. Tilmon, A. B. Shantz, C. K. Harris, and J. Pesek. 1999. The role of host-plant fidelity in initiating insect race formation. Evolutionary Ecology Research 1(3): 317–332 [on *Enchenopa binotata* species complex].

CHRONOLOGICAL INDEX TO WOOD'S PUBLICATIONS

Year	Author(s)
1966	Wood, Armbrust, Gyrisco, Guten-

- mann & Lisk; Wood, Gyrisco, Guttenmann & Edmonds
 1968 Wood [unpublished dissertation]
 1969 Wood
 1971 Wood & Patton
 1974 Nault, Wood & Goff; Wood; Wood & Morris
 1975 Wood, a-b
 1976 Wood, a-b
 1977 Wood, a-b
 1978 Wood
 1979 Wood
 1980 Guttman, Wood & Karlin; Wood; Wood & Guttman
 1981 Guttman, Wood & Karlin; Wood & Guttman
 1982 Wood, a-b; Wood & Guttman
 1983 Wood, a-b; Wood & Guttman
 1984 Wood; Wood & Dowell; Wood, Guttman & Taylor; Wood & Olmstead
 1985 Wood & Dowell; Wood & Guttman
 1986 Tallamy & Wood
 1987 Wood, a-c
 1988 Wood
 1990 Olmstead & Wood, a-b; Pratt, Datz & Wood [unpublished abstract]; Wood & Datz [unpublished abstract]; Wood & Keese; Wood & Kruluts [unpublished manuscript]; Wood, Olmstead & Guttman
 1991 Keese & Wood
 1992 Pratt & Wood; Wood & Pesek
 1993 Pratt & Wood; Wood, a-b; Wood & Tilmon
 1997 Wood
 1998 Tilmon, Wood & Pesek
 1999 Wood, Tilmon, Shantz, Harris & Pesek
 2002 Lin & Wood

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 Tilmon, K. J. 2002. Thomas K. Wood. *American Entomologist* 48: 244–245 [obituary].

ADDENDUM

The authors learned of the following work too late for inclusion above:

- Lin, C. P., B. N. Danforth, and T. K. Wood. In press. Molecular phylogenetics and evolution of maternal care in membracine treehoppers. *Systematic Biology*.



Deitz, Lewis L. and Bartlett, Charles R. 2004. "Publications of Thomas Kenneth Wood (1942-2002)." *Proceedings of the Entomological Society of Washington* 106, 586–591.

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