

The work of Thomas Elliot Bowman III (1918-1995)

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Thomas Elliot Bowman III was curator of Crustacea for thirty years at the National Museum of Natural History until his death on August 10, 1995. Tom was born October 21, 1918, in Brooklyn, New York and grew up there. Immediately after graduating from Harvard College, he spent four years in the US Army (1941-1944). While he was stationed in northern California, Tom attended a summer course held at Stanford University's Pacific Grove Field Station sponsored by the University of California, Berkeley (Reid & Ferrari 1988). After his service Tom returned to Berkeley and took a master's degree with Ralph Smith. In 1948 Tom moved south to Scripps Institution of Oceanography to work under Martin Johnson on a California Current-wide plankton survey begun in 1949 by the California Cooperative Oceanic Fisheries Investigation program. Tom worked primarily on the pelagic amphipods, but identified the copepods as well. The University of California, Los Angeles, with which Scripps was associated for degree granting purposes, awarded his Ph.D.; his dissertation concerned the systematics and distribution of several families of pelagic amphipods. Tom was employed at the Narragansett Marine Laboratory in Rhode Island for six months before assuming the curatorship at the National Museum of Natural History in 1955.

Tom was a small, thin man whose twinkling eyes gave him an elfin, somewhat mischievous, demeanor (Ferrari 1996). He enjoyed controversy and wove a combative wit into the framework of a scholarly career (Brinton & Ohman 1995). Tom wrote papers that were noted for their economy of words, and expected that same economy both as a reviewer for numerous journals and as the crustacean editor over 14 years for the *Proceedings of the Biological Society of Washington*. Tom had a preference for bold to outrageous colors in dress and in office decor, and he could cut a mean figure on the trumpet while following his love of Dixieland music. Tom and his wife Mary Jo raised three lovely daughters. He worked hard all of his life, even after he retired, which somewhat disappointed Mary Jo, who had hoped to share more of his time in retirement.

Beginning with his undergraduate research under John Welsh on chromatophores of crayfish, Tom published 145 scientific papers alone or with colleagues. In addition, 32 other publications, such as his Ph.D. dissertation, faunal lists, nomenclatural opinions, book reviews and newsletter articles, are included in the following bibliography. Articles about crustaceans from earlier editions of the *Encyclopedia Americana*, *Encyclopedia Britannica*, *McGraw-Hill Encyclopedia of Science and Technology*, and Sybil P. Parker's *Taxonomy and Classification of Living Organisms* are not listed here.

The majority of Tom's scientific papers are concerned with taxonomic problems. In

these papers he described 116 species new to science (Table 1). [I have not included the pelagic amphipod *Primno abyssalis* which Tom described in Fulton, 1968, because Tom apparently is not an author of the name although his description of the animal was acknowledged.] With exceptions of the suctorian (= Ciliophora) and the chaetognath, all of the new species are crustaceans and most of them quite small crustaceans.

Isopods were the major focus of Tom's research; 55 [47%] of his new species were isopods, as were eight of the 16 new genera he established. Tom did keep an eye on copepods, describing 28 new species, a new subspecies, and two new genera. He also established, with others, a new order of peracaridans, Mictacea. Tom's remaining new names for higher taxa are a subgenus of mysids, a genus and family for the mictacean, and a family, superfamily and infraorder of pelagic amphipods. Tom also proposed seven names for crustacean genera into which he placed previously described species, and five superfamilies for pelagic amphipods. The year 1985 was a banner one for Tom. In addition to a genus and family name for the new peracaridean, Tom named a new genus and species of leptostracan, a new species of mysid, a new genus and species of isopod, two other new species of isopods, and wrote a tribute to his major professor, Martin Wiggo Johnson.

Tom's biological interests extended beyond taxonomy. He studied the seasonal occurrences, as well as regional and geographical distributions, of many different kinds of crustaceans. He also considered significant questions about homologies of the crustacean telson and the evolution of stalked eyes. However, he will be remembered as one of America's premier carcinological taxonomists.

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Table 1. Latin names that Thomas E. Bowman introduced to biology by himself or with others for animals new to science [brackets], to replace previously existing names 'quotes', or to clarify a classification /slashes/ with date of publication indicated.

SUCTORIDA	
Rhabdophryidae	<i>Dendrosomides [lucicutiae]</i> 1977b
CHAETOGNATHA	
Spadellidae	<i>Paraspadella [anops]</i> 1989a
COPEPODA	
Ameiridae	<i>Nitokra [sphaeromata]</i> 1988a
Calanidae	<i>Calanus [lighti]</i> 1955c
Candaciidae	<i>Candacia [paenelongimana]</i> 1956b
Clausocalanidae	<i>Clausocalanus [citer]</i> 1971f
	<i>Ctenocalanus [heronae]</i> 1990a
Diaptomidae	<i>Mastigodiaptomus [nesus]</i> 1986d
	<i>Notodiaptomus [caperatus]</i> 1979a
	<i>Notodiaptomus venezolanus [deeveyorum]</i> 1972c
Nicothoidae	<i>Sphaeronella [hebe]</i> 1967c
	<i>Sphaeronellopsis [monothrix]</i> 1967c
	<i>Sphaeronellopsis [dikothrix]</i> 1969a
Oithonidae	<i>Oithona [colcarva]</i> 1975b
	<i>Oithona [bjornbergae]</i> 1980b
	<i>Oithona [fonsecae]</i> 1980b
	<i>Paroithona [flemingeri]</i> 1980b
Paracalanidae	<i>Acrocalanus [andersoni]</i> 1958a
	<i>Paracalanus [quasimodo]</i> 1971d
Pontellidae	<i>Calanopia [biloba]</i> 1957a
Pseudocyclopidae	<i>Pseudocyclops [cokeri]</i> 1961a
	<i>Pseudocyclops [paulus]</i> 1961a
	<i>Pseudocyclops [rostratus]</i> 1961a
	<i>Pseudocyclops [rubrocintus]</i> 1961a
Pseudodiaptomidae	<i>Pseudodiaptomus [cokeri]</i> 1965c
Stephidae	<i>[Miostephos] [cubrobex]</i> 1976a
Tisbidae	<i>Tisbe [monozota]</i> 1962a
Tortanidae	<i>Tortanus [compennis]</i> 1965c
	<i>Tortanus [scaphus]</i> 1971e
	<i>Tortanus [lophus]</i> 1971e
Tachidiidae	<i>[Cithadius] [cyathurae]</i> 1972a
LEPTOSTRACA	
Nebaliidae	<i>[Speonebalia] [cannoni]</i> 1985f
MYSIDACEA	
Mysidae	<i>Antromysis [peckorum]</i> 1977a
	<i>Antromysis [reddelli]</i> 1977a
	<i>Antromysis [merista]</i> 1980a
	<i>Antromysis ([Surinamysis])</i> 1977a
	<i>Boreomysis [oparva]</i> 1993a
	<i>[Deltamysis] [holmquistae]</i> 1992b

Table 1. Continued.

Mysidae (continued)	<i>Heteromysoides</i> [dennisi] 1985a <i>Mysidium</i> [rickettsi] 1987c <i>Mysidopsis</i> [furca] 1957b <i>Mysidopsis</i> [almyra] 1964b
Lepidomysidae	<i>Spelaeomysis</i> [cardisomae] 1972b <i>Spelaeomysis</i> [olivae] 1972b <i>Spelaeomysis</i> [villalobosi] 1996a
Stygiomysidae	<i>Stygiomysis</i> [clarki] 1984a <i>Stygiomysis</i> [major] 1976b
DECAPODA	
Bythocarididae	<i>Bythocaris</i> [cryonesus] 1972b
Sergestidae	<i>Lucifer</i> [chacei] 1967b
THERMOSBAENACEA	
Monodellidae	[<i>Tulumella</i>] [unidens] 1988b
Thermosbaenidae	<i>Halosbaena</i> [fortunata] 1986c
[MICTACEA] 1985c	
[Mictocarididae]	[<i>Mictocaris</i>] [halope] 1985d
AMPHIPODA	
[Anaponoidae] 1973d	
/Lanceoloidea/ superfamily 1973d	
[Lycaeopsoidea] new superfamily 1973d	
/Phronimoidea/ superfamily 1973d	
[Physocephalata] new infraorder 1973d	
/Platysceloidea/ superfamily 1973d	
/Scinoidea/ superfamily 1973d	
/Vibiloidea/ superfamily 1973d	
Cymidae	[<i>Syncyamus</i>] [pseudorcae] 1955a
Eusiridae	[<i>Dolobrotus</i>] [mardeni] 1974a
Hyperiididae	<i>Hyperia</i> [crassa] 1973a
	<i>Hyperia</i> [leptura] 1973a
	' <i>Hyperietta</i> ' 1973a
	<i>Hyperietta</i> [parvaceps] 1973a
	<i>Hyperietta</i> [stebbingi] 1973a
	<i>Hyperietta</i> [stephenseni] 1973a
	' <i>Hyperionyx</i> ' 1973a
	<i>Lestrigonus</i> [shoemakeri] 1973a
	<i>Primno</i> [brevidens] 1978a
	<i>Primno</i> [johnsoni] 1978a
Phrosinidae	' <i>Spinoscina</i> ' 1972c
Scinidae	<i>Orchestia</i> [vaggala] 1977c
Talatridae	
ISOPODA	
Anthuridae	<i>Cyathura</i> [specus] 1965a
Asellidae	<i>Asellus</i> [alaskensis] 1975d <i>Asellus</i> [kinki] 1967a

Table 1. Continued.

Asellidae (continued)	<i>Caecidotea</i> [<i>beattyi</i>] 1981c <i>Caecidotea</i> [<i>bilineata</i>] 1996b <i>Caecidotea</i> [<i>carolinensis</i>] 1977e <i>Caecidotea</i> [<i>chiapas</i>] 1975c <i>Caecidotea</i> [<i>filicispeluncae</i>] 1983a <i>Caecidotea</i> [<i>lesliei</i>] 1981c <i>Caecidotea</i> [<i>misterae</i>] 1981c <i>Caecidotea</i> [<i>rotunda</i>] 1984b <i>Caecidotea</i> [<i>sequoiae</i>] 1975c <i>Caecidotea</i> [<i>whitei</i>] 1981c [<i>Calasellus</i>] [<i>longus</i>] 1981a ‘ <i>Lirceolus</i> ’ 1976c <i>Lirceolus</i> [<i>hardeni</i>] 1996b <i>Lirceus</i> [<i>usdagalun</i>] 1972e ‘ <i>Remasellus</i> ’ 1985e [<i>Salmasellus</i>] [<i>steganothrix</i>] 1975c
Bopyridae	<i>Bopyrella</i> [<i>harmopleon</i>] 1956a
Cirolanidae	<i>Anopsilana</i> [<i>crenata</i>] 1982c <i>Anopsilana</i> [<i>lingua</i>] 1987b <i>Annina</i> [<i>fustis</i>] 1991a [<i>Antrolana</i>] [<i>lira</i>] 1964a <i>Bahalana</i> [<i>mayana</i>] 1987a [<i>Bermudalana</i>] [<i>aruboides</i>] 1983b [<i>Ceratolana</i>] [<i>papuae</i>] 1977d <i>Cirolana</i> [<i>narica</i>] 1971a <i>Exciorlana</i> [<i>kumari</i>] 1971b [<i>Haptolana</i>] [<i>trichostoma</i>] 1966a [<i>Mexilana</i>] [<i>saluposi</i>] 1975a <i>Speocirolana</i> [<i>endeca</i>] 1982a <i>Speocirolana</i> [<i>hardeni</i>] 1992a <i>Speocirolana</i> [<i>pubens</i>] 1982a <i>Sphaerolana</i> [<i>karenae</i>] 1995a
Cymothoidae	<i>Anilocra</i> [<i>monoma</i>] 1983c <i>Catoessa</i> [<i>gruneri</i>] 1983c <i>Glossobius</i> [<i>anctus</i>] 1989b [<i>Joryma</i>] [<i>sawayah</i>] 1983c <i>Lironeca</i> [<i>orinoco</i>] 1957c <i>Lironeca</i> [<i>puhi</i>] 1960a <i>Nerocila</i> [<i>arres</i>] 1983c <i>Nerocila</i> [<i>kisra</i>] 1983c <i>Nerocila</i> [<i>sigani</i>] 1983c <i>Paracymothoa</i> [<i>tholoceps</i>] 1986b <i>Renocila</i> [<i>heterozota</i>] 1968a
Idoteidae:	<i>Chiridotea</i> [<i>coeca</i>] 1955b ‘ <i>Ronalea</i> ’ 1956c
Sphaeromatidae	<i>Cymodetta</i> [<i>gambosa</i>] 1974b <i>Thermosphaeroma</i> [<i>cavicauda</i>] 1985b <i>Thermosphaeroma</i> [<i>macrura</i>] 1985b <i>Thermosphaeroma</i> [<i>milleri</i>] 1981b <i>Thermosphaeroma</i> [<i>smithi</i>] 1981b

Table 1. Continued.

Stenasellidae	<i>Mexistenasellus [colei]</i> 1982b
	<i>Mexistenasellus [nulemex]</i> 1982b
	<i>Etlastenasellus [confinis]</i> 1982b
Trichoniscidae	' <i>Xilitloniscus</i> ' 1965b
Tridentellidae	<i>Tridentella [recava]</i> 1986a
???	<i>Pelaega [lamnae]</i> 1971c