

APPENDIX

MEMORIAL TO ZACH MCLENDON ARNOLD (1921–2015)

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Zach M. Arnold was a pioneer in the study of foraminiferal life cycles and reproduction, culturing and sample preparation methods, morphological variation, and the biology of gromiid protists.

Complete List of Publications, Zach M. Arnold

Arnold, Z.M., 1948. A new foraminiferan belonging to the genus *Allogromia*: Transactions of the American Microscopical Society, 48:231–235.

_____, 1951. Occurrence of *Gromia oviformis* Dujardin in California (Testacea): The Wasmann Journal of Biology, 9:351–353.

[Note: published while in the Museum of Paleontology, UCB]

_____, 1951. The use of a precision lathe in the preparation of biological thin sections: Science, 114:242–243.

_____, 1952. Structure and paleontological significance of the oral apparatus of the foraminiferoid *Gromia oviformis* Dujardin: Journal of Paleontology, 26:829–831.

_____, 1952. A rapid method for concentrating small organisms for sectioning: Stain Technology, 27:199.

_____, 1953. An introduction to the study of movement and dispersal in *Allogromia laticollaris* Arnold: Contributions from the Cushman Foundation for Foraminiferal Research, 4:15–21.

_____, 1953. Paleontology and the study of variation in living foraminifera: Contributions from the Cushman Foundation for Foraminiferal Research, 4:24–26.

_____, 1954. Variation and isomorphism in *Allogromia laticollaris*: a clue to foraminiferal evolution: Contributions from the Cushman Foundation for Foraminiferal Research, 5:78–87.

[Note: published while in the Museum of Paleontology, UCB]

_____, 1954. *Discorinopsis aguayoi* (Bermudez) and *Discorinopsis vadescens* Cushman and Bronnimann: a study of variation in cultures of living foraminifera: Contributions from the Cushman Foundation for Foraminiferal Research, 5:4–13.

_____, 1954. The biologist's post-war contributions to the study of the foraminifera: Thirty-first annual meeting of the Society of Economic Paleontologists and Mineralogists, Pacific Coast Section, 1954:5.

_____, 1954. A note on foraminiferan sieve-plates: Contributions from the Cushman Foundation for Foraminiferal Research, 5:77.

_____, 1954. Culture methods in the study of living foraminifera: Journal of Paleontology, 28:404–416.

_____, 1955. An unusual feature of miliolid reproduction: Contributions from the Cushman Foundation for Foraminiferal Research, 6:94–96.

_____, 1955. Life history and cytology of the foraminiferan *Allogromia laticollaris*: University of California Publications in Zoology, 61:167–252.

_____, 1955. The construction and use of a simple die for plastic micropaleontological slides: Micropaleontology, 1: 365–367.

_____, 1956. The contributions of Jean Le Calvez to the study of the foraminifera: Contributions from the Cushman Foundation for Foraminiferal Research, 7:1–14.

_____, 1957. Two recent textbook accounts of foraminiferan biology: Contributions from the Cushman Foundation for Foraminiferal Research, 8:87–89.

_____, 1957. The biology of an apogamic miliolid foraminifer: The Anatomical Record, 128:517.

_____, 1959. The biological versus the paleontological approach to foraminiferan taxonomy: Proceedings of the 15th International Congress of Zoology, London, Sect. 1: 23.

_____, 1962. A high-speed plankton sampler for manual operation: Micropaleontology, 8:515–518.

_____, 1964. Biological observations on the foraminifer *Spiroloculina hyalina* Schulze: University of California Publications in Zoology, 72:1–93.

_____, 1964. Biological clues in interpreting the biogeography of the foraminifer *Nubecularia lucifuga* Defrance: Proceedings of the International Conference on Tropical Oceanography; Miami, Florida, 1964: 622–631.

- _____, 1965. Foraminifera: Encyclopaedia Britannica, William Benton, Publisher, pp. 596–599.
- _____, 1965. Biological observation on laboratory and natural populations of the foraminifera, *Nubecularia lucifuga*: Program, International Conference on Tropical Oceanography.
- _____, 1966. Observations on the sexual generation of *Gromia oviformis* Dujardin: Journal of Protozoology, 13:23–27.
- _____, 1966. A laboratory system for maintaining small-volume cultures of foraminifera and other organisms: Micropaleontology, 12:109–118.
- _____, 1967. Utilisation des antibiotiques dans la réalisation des cultures de foraminifères sous faible volume II. Application à la technique des cultures des foraminifères: Vie et Milieu, Série A: Biologie marine, 18:36–45.
- _____, 1967. Biological observations on the foraminifer *Calcituba polymorpha* Roboz: Archiv für Protistenkunde, 110:280–304.
- _____, 1968. The uniparental species concept in the foraminifera: Transactions of the American Microscopical Society, 87:431–442.
- _____, 1972. Observations on the biology of the protozoan *Gromia oviformis* Dujardin: University of California Publications in Zoology, 100:1–168.
- _____, 1974. Field and laboratory techniques for the study of living foraminifera, p. 154–206, In: R.H. Hedley and C.G. Adams, Eds., Foraminifera, Volume 1; Academic Press, London & New York.
- _____, 1978. An allogromiid ancestor of the miliolidean foraminifera: Journal of Foraminiferal Research, 8:83–96.
- _____, 1978. Biological evidence for the origin of polythalamy in foraminifera: Journal of Foraminiferal Research, 8:147–166.
- _____, 1979. Biological clues to the origin of miliolidean foraminifera: Journal of Foraminiferal Research, 9:302–321.
- _____, 1979. A cocoon-building *Turritellella* (Foraminifera): The Compass of Sigma Gamma Epsilon, 56:83–95.
- _____, 1980. Chapter 1. Foraminifera: shelled protozoans, p. 9–20; In: Intertidal Invertebrates of California, R.H. Morris, D.P. Abbott, and E.C. Haderlie, Eds.; Stanford University Press.

_____, 1982. *Psammophaga simplora* n. gen., n. sp., a polygenomic Californian saccamminid: *Journal of Foraminiferal Research*, 12:72–78.

_____, 1982. Shell-wall laminations in *Gromia oviformis* Dujardin: *Journal of Foraminiferal Research*, 12:298–316.

_____, 1984. Two pocket centrifuges for the field microscopist: *Transactions of the American Microscopical Society*, 103:84–92.

_____, 1984. The gamontic karyology of the saccamminid foraminifer *Psammophaga simplora* Arnold: *Journal of Foraminiferal Research*, 14:171–186.

_____, 1985. A washing device for small samples: *Micropaleontology*, 31:285–288.

Additional Publications & Contributions:

A Technical Manual for the Biologist. 1993. Boxwood Press, 169 p.; ISBN 0-940168-3

Musical Punstruments. 1994. Boxwood Press, 287 p.; ISBN: 0-940168-28-6

Cats and Yammerings. 1994. Boxwood Press, 166 p.; ISBN: 0-940168-35-9

The Miniature Harmonica. 1995. Boxwood Press, 218 p.; ISBN: 0-940168-30-8

Miniature Thermoplastics Sculpture. 1996. Boxwood Press, 231 p. ISBN: 0-940168-39-1

Impressions for Piano. 1997. Boxwood Press, 308 p.

Nocturnes for Piano. 2000. Published by the author for private distribution, 422 p.

A Wandering Muse. 2001. Published by the author for private distribution, 254 p.

Recollections for Piano. 2001. Published by the author for private distribution, 278 p.

Tools, Techniques and Projects for the Miniaturist. 2002. Published by the author for private distribution, 246 p.

Diversions for Piano Accordion. 2003. Published by the author for private distribution, 210 p.

Lucubrations For The Chromatic Harmonica And Piano. 2003. Published by the author for private distribution, 203 p.

Free-Reed Confabulations (Duets for piano, accordion and chromatic harmonica). 2003. Published by the author for private distribution, 252 p.

Pieces For The Organ. 2003. Published by the author for private distribution, 217 p.

Songs (Octogenarian Bemusements). 2004. Published by the author for private distribution, 261 p.

Diversions For Piano. 2005. Published by the author for private distribution, 252 p.

Octogenarian Poetastric Effusions (A Second Life Sketch in Verse). 2005. Published by the author for private distribution, 174 p.

Pieces For An Inusitate Quartet (For Whistler, Chromatic Harmonica, Cello and Piano). 2006. Published by the author for private distribution, 247 p.

Pieces for Cello and Piano. 2007. Published by the author for private distribution, 262 p.

More Pieces for Cello and Piano. 2007. Published by the author for private distribution, 278 p.

An Album For Piano. 2008. Published by the author for private distribution, 305 p.