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Memorial

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Corresponding author:
Loren E. Babcock;
Email: babcock.5@osu.edu

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Jonathan Calede

The scientific career of Rodney M. Feldmann, 1939–2024

Loren E. Babcock[1] and Adiël A. Klompmaker[2]

[1]School of Earth Sciences, Orton Geological Museum, The Ohio State University, Columbus, OH 43210, USA
[2]Department of Museum Research & Collections and Alabama Museum of Natural History, University of Alabama, Tuscaloosa, AL 35487, USA

Abstract

Rodney M. Feldmann (1939–2024) had a remarkable scientific career. Publishing primarily in paleontology and geology during seven decades, his legacy includes more than 500 journal articles, conference proceedings, books, book chapters, field guides, and laboratory manuals, in addition to many abstracts of talks presented at conferences. His published work has considerable breadth, but much of it concerns the paleobiology of decapods and other crustaceans. He supervised 47 M.S. theses and 14 Ph.D. dissertations and served in multiple societies and organizations and on editorial boards. Prof. Feldmann was an inspiration to his many students and colleagues around the globe and has left a lasting impact on science.

Non-technical Summary

Prof. Rodney M. Feldmann (1939–2024) had a remarkable career as a paleontologist and geologist. He published more than 500 journal articles, books, and other documents. His work on fossil decapods (crabs, shrimps, and lobsters) and other crustacean arthropods was especially prolific. In addition, he supervised numerous master's degree and doctoral students and was an inspirational leader in the scientific community.

Biographical sketch

Rodney Mansfield Feldmann was born in Steele, North Dakota, on 19 November 1939 and died in Kent, Ohio, on 1 May 2024. During his early years in North Dakota, he was raised by Lois De'Ette and Herman ("Red") DuPree. After high school, he attended the University of North Dakota, where he earned B.S. (1961), M.S. (1963), and Ph.D. (1967) degrees in Geology. His faculty mentor F.D. ("Bud") Holland played an important role in his professional development, and the two remained close in subsequent years. In 1965, Rod was hired as an instructor in the Department of Geology at Kent State University and became an assistant professor in 1967, associate professor in 1971, and professor in 1975. Between 1966 and 1968, he served as an assistant dean of the College of Arts and Sciences, and from 1976 to 1999, he served as assistant chair of the Department of Geology. During his tenure, Rod taught an assortment of undergraduate and graduate courses—physical geology, historical geology, invertebrate paleontology, oceanography, paleoceanography, paleoecology, field camp, and others. During summers early in his career, Rod completed work for the North Dakota State Highway Department, the North Dakota State Geological Survey, and the American Petroleum Institute. Between 1976 and 1982, he was co-editor, along with Alan H. Coogan, of the *Journal of Paleontology*, and he was president of the Paleontological Society in 1993. Rod retired in 2001, but as an emeritus professor, he maintained a thriving research program and served as graduate coordinator as well as curator of paleontology for the Department of Geology (renamed the Department of Earth Sciences in 2022). Active as a leader in many organizations, Rod Feldmann served as a trustee of the Paleontological Research Institution from 2005 to 2011 and was president of the Board of Trustees from 2008 to 2010. Professor Feldmann was a fellow of the Paleontological Society and the Geological Society of America. He served a variety of roles in Sigma Gamma Epsilon (SGE), including Kent State's chapter advisor until 2021, editor of *The Compass of Sigma Gamma Epsilon*, national historian, and vice president. Rod's volunteer work with SGE was truly remarkable: he was the longest-serving chapter advisor in the organization's history, with 53 years of service (Ortiz and Ford, 2025).

Professor Feldmann was a prolific scientist, and the enthusiasm he had for his work has inspired many paleontologists through their professional development. In a career spanning seven decades, Rod Feldmann mentored numerous undergraduate and graduate students, collaborated with a large number of colleagues globally, and produced more than 500 journal articles, conference proceedings, books, book chapters, field guides, and laboratory manuals (cited in the section "Publications by Rodney M. Feldmann" that follows). The *Journal of*

Paleontology was one of Rod's favorite journals, having published nearly 100 papers in it. He was frequently supported by grants from the National Science Foundation and the National Geographic Society. He presented numerous times at scientific conferences. The following list does not include the abstracts of the talks and posters. His prolific research career earned him a spot among the top 2% of scientists in the world (Ioannidis et al., 2020).

Rod Feldmann's range of interests in geology and paleontology were broad. His earliest papers, published while he was a master's degree student, were on fishes from North Dakota. The first paper (Feldmann, 1962) was on Oligocene fishes, and the second (Feldmann, 1963) was on Holocene fishes. His work toward a Ph. D. dissertation on the stratigraphy and paleontology of the Fox Hills Formation (Upper Cretaceous) in North Dakota resulted in a pair of papers (Feldmann, 1966, 1968) and, more importantly, introduced him to fossil decapods. Rod maintained broad paleontological and neontological interests through the remainder of his life and published on a variety of extinct and extant taxa, but from the early 1970s on, his passion for decapods and other crustaceans dominated his research. His enthusiasm was infectious, as evinced by the large number of students that he mentored, and the extraordinary number of others that he collaborated with, to produce an increasingly extensive documentation of fossil decapods. Whereas most papers Rod authored are on the systematics of decapod crustaceans, including hundreds of new taxa, his work includes more broad-ranging topics—phylogenetics, evolutionary patterns, paleoecology, biogeography, life history, taphonomy, and other aspects of biology and paleobiology.

In the austral summer of 1983–1984, Rod Feldmann led an expedition to collect Cretaceous and Paleogene decapod crustaceans on Seymour Island, Antarctica. This work had a multifaceted outcome. In combination with others, Feldmann provided a detailed understanding of the Mesozoic–Cenozoic stratigraphy and paleontology of Seymour Island, which was summarized in a landmark volume published in the Geological Society of America Memoir series (Feldmann and Woodburne, 1988). The work on Seymour Island launched an extensive series of related studies of Southern Hemisphere decapods. Over the years, this work expanded into studies of Phanerozoic decapods and other crustaceans, plus some other arthropods, from around the world. He worked on fossil arthropods from all continents and contributed more than any other single person to the paleobiology of Mesozoic–Cenozoic decapods of Antarctica (reviewed by Babcock et al., 2024) and New Zealand. Colleagues from dozens of countries joined in the vast and impressive effort to document and interpret the evolutionary history of decapods, which is summarized in "*Treatise Online*" chapters published from 2012 onward.

Rod co-initiated the Symposium on Fossil Decapod Crustaceans, held first in Italy in 2000 and meeting in various locations about every three years thereafter. This set of conferences has been instrumental in advancing research on fossil decapods by both professional and avocational paleontologists.

Throughout his career, Rod Feldmann placed great importance on his role as a teacher and mentor. In addition to scientific articles, he authored laboratory manuals and articles on both scientific and pedagogical methods, wrote general articles on paleontology, and produced field guides and guides to paleontological information for the general public (e.g., Feldmann et al., 1977). Perhaps most notable is "*Fossils of Ohio*" (Feldmann and Hackathorn, 1996), published by the Ohio Division of Geological Survey. This monumental work, which is essential reading for anyone interested in fossils of the midwestern United States, became the best-selling book ever published by the State of Ohio. In his role as professor, Rod Feldmann supervised 47 M.S. theses and 14 Ph.D. dissertations (cited in the section "Theses and dissertations supervised by Rodney M. Feldmann" that follows), plus numerous undergraduate projects. Rod was a very supportive, thoughtful, and patient student advisor; he helped students get settled and always made himself available to talk about research or other things in life. Rod was keen on building a supportive community for his students and enjoyed having them over for dinner regularly. He made students feel welcome regardless of their background or place of origin. His former students are scattered across academia and through state and federal geological surveys and hold varied positions in the private sector.

In the last decades of his remarkable life, Rod Feldmann concentrated on passing his deep and broad knowledge of fossil decapods on to the generations yet to come, supervising an increasing number of Ph.D. students, leading to numerous student-led publications. Collaboration with his wife, Dr. Carrie Schweitzer, energized his work, and they, together with many others, have made great strides toward documenting fossil decapods and other arthropods.

Rod Feldmann is survived by his wife and colleague, Carrie Schweitzer; his daughter Aissa Feldmann; and his brothers Frank George (Helen) DuPree, and Don Keck (Mary Grace) DuPree. The legacy he has left on science, and the ideas instilled in his students and colleagues, will live on well into the future.

Theses and dissertations supervised by Rodney M. Feldmann

All completed at Kent State University.

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