

## FINANCIAL SUPPORT FOR MEMOIR SERIES

Publication of the Memoirs of The Paleontological Society is supported from resources outside the regular publication budget of the Society for the *Journal of Paleontology*. Authors and institutions desiring to use the opportunity of publishing major paleontological works as part of the Memoir Series of the Society are expected to raise sufficient resources to cover the actual costs of reproduction. Individuals wishing to support the Memoir Series generally may contribute to an appropriate fund of the Society for that purpose through the current Treasurer of the Society whose address is listed on the first pages of every issue of the *Journal*. Acceptability of manuscripts for the Memoir Series is judged on the customary basis of the review process used for articles in the *Journal*.

The Editors

### Memoir 28

Feldmann, Rodney M., Dale M. Tshudy, and Michael R. A. Thomson, 1993, Late Cretaceous and Paleocene decapod crustaceans from James Ross Basin, Antarctic Peninsula: Paleont. Soc. Mem. 28 (*Journal of Paleontology*, v. 67, no. 1, supp.), 41 p.

### Memoir 29

Bown, Thomas M., and John G. Fleagle, 1993, Systematics, biostratigraphy, and dental evolution of the Palaeothentidae, later Oligocene to Early–Middle Miocene (Deseadan–Santacrucian) caenolestoid marsupials of South America: Paleont. Soc. Mem. 29 (*Journal of Paleontology*, v. 67, no. 2, supp.), 76 p.

### Memoir 30

Gordon, Mackenzie, Jr., Thomas W. Henry, and Janis D. Treworgy, 1993, Late Mississippian productoid brachiopods *Inflatia*, *Keokukia*, and *Adairia*, Ozark region of Oklahoma and Arkansas: Paleont. Soc. Mem. 30 (*Journal of Paleontology*, v. 67, no. 3, supp.), 29 p.

### Memoir 31

Head, Martin J., 1993, Dinoflagellates, sporomorphs, and other palynomorphs from the Upper Pliocene St. Erth Beds of Cornwall, southwestern England: Paleont. Soc. Mem. 31 (*Journal of Paleontology*, v. 67, no. 3, supp.), 62 p.

### Memoir 32

Klapper, Gilbert, and C. T. Foster, Jr., 1993, Shape analysis of Frasnian species of the Late Devonian conodont genus *Palmatolepis*: Paleont. Soc. Mem. 32 (*Journal of Paleontology*, v. 67, no. 4, supp.), 35 p.

### Memoir 33

Grant, Richard E., 1993, Permian brachiopods from Khios Island, Greece: Paleont. Soc. Mem. 33 (*Journal of Paleontology*, v. 67, no. 4, supp.), 21 p.

### Memoir 34

Ward, Peter D., and W. James Kennedy, 1993, Maastrichtian ammonites from the Biscay region (France, Spain): Paleont. Soc. Mem. 34 (*Journal of Paleontology*, vol. 67, no. 5, supp.), 58 p.

### Memoir 35

Marincovich, Louie, Jr., 1993, Danian mollusks from the Prince Creek Formation, northern Alaska, and implications for Arctic Ocean paleogeography: Paleont. Soc. Mem. 35 (*Journal of Paleontology*, vol. 67, no. 5, supp.), 35 p.

### Memoir 36

Stanley, George D., Jr., Carlos González-León, Michael R. Sandy, Baba Senowbari-Daryan, Peter Doyle, Minoru Tamura, and Douglas H. Erwin, 1994, Upper Triassic invertebrates from the Antimonio Formation, Sonora, Mexico: Paleont. Soc. Mem. 36 (*Journal of Paleontology*, vol. 68, no. 4, supp.), 33 p.

### Memoir 37

Hofmann, H. J., and G. D. Jackson, 1994, Shale-facies microfossils from the Proterozoic Bylot Supergroup, Baffin Island, Canada: Paleont. Soc. Mem. 37 (*Journal of Paleontology*, vol. 68, no. 4, supp.), 39 p.

### Memoir 38

Hoare, Richard D., and Myron T. Sturgeon, 1994, Small fusulinids from the Pennsylvanian of Ohio: Paleont. Soc. Mem. 38 (*Journal of Paleontology*, vol. 68, no. 5, supp.), 21 p.

### Memoir 39

Sergeev, V. N., A. H. Knoll, and J. P. Grotzinger, 1995, Paleobiology of the Mesoproterozoic Billyakh Group, Anabar Uplift, Northern Siberia: Paleont. Soc. Mem. 39 (*Journal of Paleontology*, vol. 69, no. 1, supp.), 37 p.

### Memoir 40

Shaw, F. C., 1995, Ordovician trinucleid trilobites of the Prague Basin, Czech Republic: Paleont. Soc. Mem. 40 (*Journal of Paleontology*, vol. 69, no. 3, supp.), 23 p.

### Memoir 41

Rigby, J. K., and A. Desrochers, 1995, Lower and Middle Ordovician Lithistid Demosponges from the Mingan Islands, Gulf of St. Lawrence, Quebec, Canada: Paleont. Soc. Mem. 41 (*Journal of Paleontology*, vol. 69, no. 4, supp.), 35 p.

### Memoir 42

Lespérance, P. J., and S. Desbiens, 1995, Selected Ordovician trilobites from the Lake St. John District of Quebec and their bearing on Systematics: Paleont. Soc. Mem. 42 (*Journal of Paleontology*, vol. 69, no. 4, supp.), 19 p.

### Memoir 43

Feldmann, Rodney M., Silvio Casadío, Luis Chirino-Galvez, and María Aguirre-Urreta, 1995, Fossil decapod crustaceans from the Jagüel and Roca Formations (Maastrichtian–Danian) of the Neuquén Basin, Argentina: Paleont. Soc. Mem. 43 (*Journal of Paleontology*, vol. 69, no. 5, supp.), 22 p.

### Memoir 44

Cobban, W. A., and W. J. Kennedy, 1995, Maastrichtian ammonites chiefly from the Prairie Bluff Chalk in Alabama and Mississippi: Paleont. Soc. Mem. 44 (*Journal of Paleontology*, vol. 69, no. 5, supp.), 40 p.

### Memoir 45

Palmer, A. R., and A. J. Rowell, 1995, Early Cambrian trilobites from the Shackleton Limestone of the Central Transantarctic Mountains: Paleont. Soc. Mem. 45 (*Journal of Paleontology*, vol. 69, no. 6, supp.), 28 p.

### Memoir 46

Sutherland, P. K., 1996, *Ardmosteges orchamus* new genus, new species, in the Early Pennsylvanian of Oklahoma—possible ancestor to the richthofenoid brachiopods: Paleont. Soc. Mem. 46 (*Journal of Paleontology*, vol. 70, no. 2, supp.), 25 p.

### Memoir 47

Lane, N. Gary, Johnny A. Waters, and Christopher G. Mapels, 1997, Echinoderm faunas of the Hongguleleng Formation, Late Devonian (Famennian), Xinjiang-Uygur Autonomous Region, People's Republic of China: Paleont. Soc. Mem. 47 (*Journal of Paleontology*, vol. 71, no. 2, supp.), 43 p.

### Memoir 48

Feldmann, Rodney M., Karen L. Bice, Carrie Schweitzer Hopkins, Eric W. Salva, and Katherine Pickford, 1998, Decapod Crustaceans from the Eocene Castle Hayne Limestone, North Carolina: Paleoceanographic Implications: Paleont. Soc. Mem. 48 (*Journal of Paleontology*, vol. 72, no. 1, supp.), 28 p.

### Memoir 49

Chatterton, Brian D. E., and Rolf Ludvigsen, 1998, Upper Steptoean (Upper Cambrian) Trilobites from the McKay Group of Southeastern British Columbia, Canada: Paleont. Soc. Mem. 49 (*Journal of Paleontology*, vol. 72, no. 2, supp.), 43 p.

### Memoir 50

Zhang, Yun, Leiming Yin, Shuhai Xiao, and Andrew H. Knoll, 1998, Permineralized Fossils from the Terminal Proterozoic Doushanto For-

## NOTICE TO LIBRARIANS

It is suggested that the memoir series of The Paleontological Society be catalogued and bound as a separate publication series independent of the Journal of Paleontology. In future years memoirs may be issued separately from the Journal.

### *Memoir 1*

Amsden, T. W., 1968, Articulate Brachiopods of the St. Clair Limestone (Silurian), Arkansas, and the Clarita Formation (Silurian), Oklahoma: Paleont. Soc., Mem. 1 (Journal of Paleontology, vol. 42, no. 3, supp.), 117 p.

### *Memoir 2*

Macurda, D. B., Jr. (editor), 1968, Paleobiological aspects of growth and development, a symposium: Paleont. Soc., Mem. 2 (Journal of Paleontology, vol. 42, no. 5, supp.), 119 p.

### *Reference to a paper in Memoir 2*

Bonner, J. T., 1968, Size change in development and evolution, in Paleobiological aspects of growth and development, a symposium: Paleont. Soc., Mem. 2 (Journal of Paleontology, vol. 42, no. 5, supp.), p. 1–15.

### *Memoir 3*

Waller, T. R., 1969, The evolution of the *Argopecten gibbus* stock (Mollusca: Bivalvia), with emphasis on the Tertiary and Quaternary species of Eastern North America: Paleont. Soc., Mem. 3 (Journal of Paleontology, vol. 43, no. 5, supp.), 125 p.

### *Memoir 4*

Longacre, S. A., 1970, Trilobites of the Upper Cambrian Ptychaspid Biomere, Wilberns Formation, Central Texas: Paleont. Soc., Mem. 4 (Journal of Paleontology, vol. 44, no. 1, supp.), 70 p.

### *Memoir 5*

Kier, P. M., 1974, Evolutionary trends and their functional significance in the post-Paleozoic Echinoids: Paleont. Soc., Mem. 5 (Journal of Paleontology, vol. 48, no. 3, supp.), 96 p.

### *Memoir 6*

Shaw, F. C., 1974, Simpson Group (Middle Ordovician) Trilobites of Oklahoma: Paleont. Soc., Mem. 6 (Journal of Paleontology, vol. 48, no. 5, supp.), 54 p.

### *Memoir 7*

Kolata, D. R., 1975, Middle Ordovician Echinoderms from Northern Illinois and Southern Wisconsin: Paleont. Soc., Mem. 7 (Journal of Paleontology, vol. 49, no. 3, supp.), 74 p.

### *Memoir 8*

Petersen, Morris S., 1975, Upper Devonian (Famennian) Ammonoids from the Canning Basin, Western Australia: Paleont. Soc., Mem. 8 (Journal of Paleontology, vol. 49, no. 5, supp.), 55 p.

### *Memoir 9*

Grant, Richard E., 1976, Permian Brachiopods from Southern Thailand: Paleont. Soc., Mem. 9 (Journal of Paleontology, vol. 50, no. 3, supp.), 269 p.

### *Memoir 10*

Manger, Walter L., and W. Bruce Saunders, 1980, Lower Pennsylvanian (Morrowan) Ammonoids from the North American Midcontinent: Paleont. Soc., Mem. 10 (Journal of Paleontology, vol. 54, no. 3, supp.), 56 p.

### *Memoir 11*

Frest, T. J., Brian F. Glenister, and W. M. Furnish, 1981, Pennsylvanian-Permian Cheiloceratacean Ammonoid families Maximitidae and Pseudohaloritidae: Paleont. Soc., Mem. 11 (Journal of Paleontology, vol. 55, no. 3, supp.), 46 p.

### *Memoir 12*

Blackwelder, Blake W., 1981, Late Cenozoic Stages and Molluscan Zones of the U.S. Middle Atlantic Coastal Plain: Paleont. Soc., Mem. 12 (Journal of Paleontology, vol. 55, no. 5, supp.), 34 p.

### *Memoir 13*

Fisher, Daniel C., and Matthew H. Nitecki, 1982, Standardization of the Anatomical Orientation of Receptaculitids: Paleont. Soc., Mem. 13 (Journal of Paleontology, vol. 56, no. 1, supp.), 40 p.

### *Memoir 14*

Karklins, Olgerts L., 1983, Ptilodicytoid Cryptostomata Bryozoa from the Middle and Upper Ordovician rocks of Central Kentucky: Paleont. Soc., Mem. 14 (Journal of Paleontology, vol. 57, no. 1, supp.), 31 p.

### *Memoir 15*

Karklins, Olgerts L., 1985, Bryozoans from the Murfreesboro and Pierce Limestones (Early Black Riveran, Middle Ordovician), Stones River Group, of Central Tennessee: Paleont. Soc. Mem. 15 (Journal of Paleontology, vol. 59, no. 3, supp.), 42 p.

### *Memoir 16*

Elias, Robert J., 1985, Solitary rugose corals of the Upper Ordovician Montoya Group, southern New Mexico and westernmost Texas: Paleont. Soc. Mem. 16 (Journal of Paleontology, vol. 59, no. 5, supp.), 58 p.

### *Memoir 17*

Karklins, Olgerts L., 1986, Chesterian (Late Mississippian) bryozoans from the upper Chainman Shale and lowermost Ely Limestone of western Utah: Paleont. Soc. Mem. 17 (Journal of Paleontology, vol. 60, no. 1, supp.), 48 p.

### *Memoir 18*

Macellari, Carlos E., 1986, Late Campanian–Maastrichtian ammonite fauna from Seymour Island (Antarctic Peninsula): Paleont. Soc. Mem. 18 (Journal of Paleontology, vol. 60, no. 2, supp.), 55 p.

### *Memoir 19*

Gordon, Mackenzie, Jr., 1986, Late Kinderhookian (Early Mississippian) ammonoids of the western United States: Paleont. Soc. Mem. 19 (Journal of Paleontology, vol. 60, no. 3, supp.), 36 p.

### *Memoir 20*

Rigby, J. Keith, and A. W. Potter, 1986, Ordovician Sphinctozoa Sponges from the Eastern Klamath Mountains, Northern California: Paleont. Soc. Mem. 20 (Journal of Paleontology, vol. 60, no. 4, supp.), 47 p.

### *Memoir 21*

Cronin, Thomas M., 1987, Evolution, biogeography, and systematics of *Puriana*: evolution and speciation in Ostracoda, III: Paleont. Soc. Mem. 21 (Journal of Paleontology, v. 61, no. 3, supp.), 71 p.

### *Memoir 22*

Newton, C. R., M. T. Whalen, J. B. Thompson, N. Prins, and D. Delalla, 1987, Systematics and paleoecology of Norian (Late Triassic) bivalves from a tropical island arc: Wallowa Terrane, Oregon: Paleont. Soc. Mem. 22 (Journal of Paleontology, v. 61, no. 4, supp.), 83 p.

### *Memoir 23*

Brown, Thomas M., and Kenneth D. Rose, 1987, Patterns of dental evolution in early Eocene anaptomorphine primates (Omomyidae) from the Bighorn Basin, Wyoming: Paleont. Soc. Mem. 23 (Journal of Paleontology, v. 61, no. 5, supp.), 162 p.

### *Memoir 24*

Pojeta, John, Jr., and Norman F. Sohl, 1987, *Ascaulocardium armatum* (Morton, 1933), new genus (Late Cretaceous): the ultimate variation on the bivalve paradigm: Paleont. Soc. Mem. 24 (Journal of Paleontology, v. 61, no. 6, supp.), 77 p.

### *Memoir 25*

Maples, Christopher G., and Rex Buchanan, 1989, Raymond Cecil Moore (1892–1974): Memorial and bibliography (in celebration of the 100th anniversary of the Kansas Geological Survey): Paleont. Soc. Mem. 25 (Journal of Paleontology, v. 63, no. 6, supp.), 29 p.

### *Memoir 26*

Elder, William P., and Stephen E. Box, 1992, Late Cretaceous inoceramid bivalves of the Kuskokwim Basin, southwestern Alaska, and their implications for basin evolution: Paleont. Soc. Mem. 26 (Journal of Paleontology, v. 66, no. 2, supp.), 39 p.

### *Memoir 27*

Zullo, Victor A., 1992, Revision of the balanid barnacle genus *Concavus* Newman, 1982, with the description of a new subfamily, two new genera, and eight new species: Paleont. Soc. Mem. 27 (Journal of Paleontology, v. 66, no. 6, supp.), 47 p.