

Lane

PALEONTOLOGY

SPECIMEN CABINETS



- * All steel construction
- * Powder paint finish
- * Durable door seal
- * No adhesives
- * Reinforced for easy stacking
- * Sturdy steel trays

LANE SCIENCE EQUIPMENT CORP.

225 West 34th Street
Suite 1412
New York, NY 10122-1496

Tel: 212-563-0663
Fax: 212-465-9440
www.lanescience.com

Grand Patrons

RICHARD K. BAMBACH
ARTHUR J. BOUCOT
RODNEY M. FELDMAN AND CARRIE SCHWEITZER
THE FAMILY OF N. GARY LANE
A. R. (PETE) PALMER
J. WILLIAM SCHOPF
RAMAN J. SINGH
STEVEN M. STANLEY

Patrons

EDWARD J. ANDREW, JR.
WILLIAM I. AUSICH
BRUCE M. BELL
STIG M. BERGSTROM
DAVID J. BOTTJER
DONALD W. BOYD
DEREK E. G. BRIGGS
JAMES C. BROWER
JOHN L. CARTER
PETER R. CRANE
THE CUSHMAN FOUNDATION
J. ROBERT DODD
MARY L. DROSER
LUCY E. EDWARDS
ROBERT J. ELIAS
J. MARK ERICKSON
DOUGLAS H. ERWIN
HOWARD R. FELDMANW
ROBERT M. FINKS
KARL W. FLESA
TERRENCE J. FREST
ROBERT A. GASTALDO
PHILIP D. GINGERICH
BRIAN F. GLENISTER
F. D. (BUD) HOLLAND, JR.
J. STEWART HOLLINGSWORTH
NIGEL C. HUGHES
THOMAS W. KAMMER
ERLE G. KAUFFMAN
PATRICIA H. KELLEY
SUSAN M. KIDWELL

ANDREW H. KNOLL
CHARLES LANE
ALLAN R. LARSON
CECILIA LENK AND PAUL K. STROTHER
JERE H. LIPPS
ALAN R. LORD
CHRIS MAPLES AND SARA MARCUS
JANET WOOD MCGREGOR
CHERYL L. METZ
MOLLY F. AND CALVIN MILLER
RONALD W. MORIN
OSBORNE B. NYE, JR.
TERESA O'NEILL
RONALD L. PARSLEY
MARK E. PATZKOWSKY
JOHN POJETA, JR.
MARY LOU POJETA
JOHN K. POPE
ANNE RAYMOND
MARGARET N. REES
FRANK H. T. RHODES
RICHARD A. ROBISON
JUNE R. P. AND CHARLES A. ROSS
CHRISTOPHER A. SHAW
FREDERICK C. SHAW
LAWRENCE M. SMALL
GEORGE D. STANLEY, JR.
ROBERT J. STANTON, JR.
CARL W. STOCK
ROGER D. K. THOMAS
BRUCE H. TIFFNEY
SALLY E. WALKER
RON F. WASZCZAK
JOHNNY A. WATERS
GARY D. WEBSTER
MARK A. WILSON
SCOTT L. WING
ABBY YOCHELSON
CHARLES YOCHELSON
JEFFERY B. YOCHELSON
LOUIS G. ZACHOS

The *Journal of Paleontology* publishes manuscripts on all aspects of paleontology, including systematics, phylogeny, paleoecology, paleobiogeography, biostratigraphy, taphonomy, and evolution. It emphasizes specimen-based research and features illustrations of the highest quality possible. Manuscript treating all fossil organism groups are welcome, including invertebrates, vertebrates, plants, algae, and microorganisms of all sorts, as well as ichnofossils (trace fossils).

The *Journal of Paleontology* accepts only online manuscript submissions through the website:

<https://mc.manuscriptcentral.com/paleo>

Author guidelines can be downloaded at:

<http://journals.cambridge.org/action/displayMoreInfo?jid=JPA&type=ifc>

For questions regarding online submissions, please contact the editorial offices at:

journalofpaleontology@cambridge.org

Membership Information

Members of the Paleontological Society automatically receive electronic subscriptions to *Paleobiology* and the *Journal of Paleontology* as a benefit of membership. To apply for individual membership, please go to the Paleontological Society's homepage at <http://paleosoc.org/> where links to an electronic application, a printable paper application form, and a complete list of membership benefits are provided under the Membership heading.

Visit The Paleontological Society website at www.paleosoc.org.

JOURNAL of PALEONTOLOGY

VOL 90 | NO 4 | 2016

- 589 **Arden R. Bashforth, William A. DiMichele, Cortland F. Eble, and W. John Nelson**
A Middle Pennsylvanian macrofloral assemblage from wetland deposits in Indiana (Illinois Basin): a taxonomic contribution with biostratigraphic, paleobiogeographic, and paleoecologic implications
- 632 **Dieter Uhl, André Jasper, Talyssa Valerius, Joseline Manfroi, Margot Guerra-Sommer, and Fresia Soledad Ricardi-Branco**
Hepaticites iporangae Ricardi-Branco, Faria, Jasper, and Guerra-Sommer, 2011 from the early Permian of the Paraná Basin, Brazil, is not a liverwort but a tracheophyte
- 640 **Elisha B. Harris and Nan Crystal Arens**
A mid-Cretaceous angiosperm-dominated macroflora from the Cedar Mountain Formation of Utah, USA
- 663 **Peiyun Cong, Allison C. Daley, Gregory D. Edgecombe, Xianguang Hou, and Ailin Chen**
Morphology of the radiodontan *Lyrarapax* from the early Cambrian Chengjiang biota
- 672 **Daniela S. Monti, María del Huerto Benítez, and Mariano A. Ramirez**
Variation on cranial shape of *Parabolinella argentinensis* Kobayashi (Trilobita, Olenidae) from the Tremadocian of northwestern Argentina: taxonomic implications
- 689 **William I. Ausich and Thomas W. Kammer**
Exaptation of pelmatozoan oral surfaces: constructional pathways in tegmen evolution
- 721 **Zain Belaústegui, Allan A. Ekdale, Rosa Domènech, and Jordi Martinell**
Paleobiology of firmground burrowers and cryptobionts at a Miocene omission surface, Alcoi, SE Spain
- 734 **Carole J. Burrow and Michael A. Murphy**
Early Devonian (Pragian) vertebrates from the northern Roberts Mountains, Nevada
- 741 **Brian L. Hoffman, Scott A. Hageman, and Gregory D. Claycomb**
Scanning electron microscope examination of the dental enameloid of the Cretaceous durophagous shark *Ptychodus* supports neoselachian classification
- 763 **Mateusz Wosik and Merrilee F. Guenther**
Examination of a historic collection of isolated cranial and appendicular hadrosaurid material from the lower Kirtland Formation of the San Juan Basin, New Mexico
- 771 **Maxim V. Sinitza and Andrian Delinschi**
The earliest member of *Neocricetodon* (Rodentia: Cricetidae): a redescription of *N. moldavicus* from Eastern Europe, and its bearing on the evolution of the genus

Cambridge Journals Online

For further information about this journal please
go to the journal website at:
journals.cambridge.org/jpa

CAMBRIDGE
UNIVERSITY PRESS