

GEOSCIENCE WISCONSIN

*Associate Editors: Kenneth R. Bradbury
Phillip E. Brown
Charles W. Byers
Lee Clayton
Mark T. Harris*

CONODONTS AND THE CAMBRIAN–ORDOVICIAN BOUNDARY IN WISCONSIN

Brian P. Parsons and David L. Clark

PALEOECOLOGY AND SEDIMENTOLOGY OF THE *PRASOPROA* ZONULE IN THE DUNLEITH FORMATION (ORDOVICIAN), UPPER MISSISSIPPI VALLEY

H.C. Sanders, D.H. Geary, and C.W. Byers

SEDIMENTOLOGY AND SEQUENCE STRATIGRAPHY OF A LOWER ORDOVICIAN MIXED SILICICLASTIC–CARBONATE SYSTEM, SHAKOPEE FORMATION, FOX RIVER VALLEY OF EAST-CENTRAL WISCONSIN

Christopher L. Johnson and J.A. (Toni) Simo

TRACE-ELEMENT SIGNATURES AND TECTONIC AFFINITIES OF PROTEROZOIC A-TYPE GRANITES AND RHYLOLITES IN CENTRAL WISCONSIN

Jennifer M. Wenner and Mindy A. Lloyd



Published by and available from

Wisconsin Geological and Natural History Survey

3817 Mineral Point Road • Madison, Wisconsin 53705-5100

☎ 608/263.7389 FAX 608/262.8086 www.uwex.edu/wgnhs/

James M. Robertson, *Director and State Geologist*

ISSN: 0164-2049

This report is an interpretation of the data available at the time of preparation. Every reasonable effort has been made to ensure that this interpretation conforms to sound scientific principles; however, the report should *not* be used to guide site-specific decisions without verification. Proper use of this publication is the sole responsibility of the user.

Issued in furtherance of Cooperative Extension work, Acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture, University of Wisconsin–Extension, Cooperative Extension. University of Wisconsin–Extension provides equal opportunities in employment and programming, including Title IX and ADA requirements. If you need this information in an alternative format, contact the Office of Equal Opportunity and Diversity Programs or the Wisconsin Geological and Natural History Survey (☎ 608/262.1705).

Mission of the Wisconsin Geological and Natural History Survey

The Survey conducts earth-science surveys, field studies, and research. We provide objective scientific information about the geology, mineral resources, water resources, soil, climate, and biology of Wisconsin. We collect, interpret, disseminate, and archive natural resource information. We communicate the results of our activities through publications, technical talks, and responses to inquiries from the public. These activities support informed decision-making by government, industry, business, and individual citizens of Wisconsin.

CONODONTS AND THE CAMBRIAN–ORDOVICIAN BOUNDARY IN WISCONSIN 1

Brian P. Parsons and David L. Clark

PALEOECOLOGY AND SEDIMENTOLOGY OF THE *PRASOPROA* ZONULE IN THE DUNLEITH FORMATION (ORDOVICIAN), UPPER MISSISSIPPI VALLEY 11

H.C. Sanders, D.H. Geary, and C.W. Byers

SEDIMENTOLOGY AND SEQUENCE STRATIGRAPHY OF A LOWER ORDOVICIAN MIXED SILICICLASTIC–CARBONATE SYSTEM, SHAKOPEE FORMATION, FOX RIVER VALLEY OF EAST-CENTRAL WISCONSIN 21

Christopher L. Johnson and J.A. (Toni) Simo

TRACE-ELEMENT SIGNATURES AND TECTONIC AFFINITIES OF PROTEROZOIC A-TYPE GRANITES AND RHYLOLITES IN CENTRAL WISCONSIN 35

Jennifer M. Wenner and Mindy A. Lloyd

EDITORIAL AND PUBLICATION POLICY OF *GEOSCIENCE WISCONSIN*

General information

Geoscience Wisconsin, a report series covering significant geoscience research pertaining to Wisconsin geology, is published by the Wisconsin Geological and Natural History Survey, University of Wisconsin–Extension. This series serves as a vehicle for the communication of scholarly geologic research pertinent to Wisconsin. Although compilations and review papers will be considered for publication, the main intent of the series is to publish high-quality, original research papers of general interest about the geology of Wisconsin.

Scope, length, and style of papers

All phases of geoscience research done in Wisconsin or very closely related to Wisconsin interests will be considered for publication. All members of the professional geoscience community are encouraged to submit their scholarly papers for publication. Students are also encouraged to submit papers based on their completed thesis research.

Papers should be no longer than 25 pages, including all figures, references, abstracts, and so forth. Manuscripts exceeding this page limit must have the approval of the managing editor before submission. Draft copies for review should be double spaced with ample margins; this includes the reference section. General style follows that of the U.S. Geological Survey. Manuscripts not meeting style guidelines will be returned to the authors without review. There are no page charges.

Administrative framework

The managing editor is responsible for receiving manuscripts. After a manuscript has been reviewed by an associate editor and reviewers (specialists in the field addressed by the paper), a recommendation as to suitability for publication in *Geoscience Wisconsin* will be submitted to the Director of the Wisconsin Geological and Natural History Survey. The Director will make the final decision as to whether each paper will be rejected or accepted.

If a paper is accepted, the managing editor will return the manuscript to the author for modi-

fication based on the recommendations of the associate editor and reviewers. The Wisconsin Geological and Natural History Survey will prepare each manuscript for printing; however, authors must supply final illustrations (in camera-ready or digital form) and photographs. Photocopies will not be accepted for printing. *Except for illustrations, all final copy must be submitted to the managing editor in digital format.* (The managing editor will provide details about digital formats upon manuscript acceptance.)

Because of the length of time needed to accumulate enough manuscripts to compose a complete volume, final publication will generally be in two stages. As soon as each individual manuscript is accepted, revised, and formatted, it will be placed in the *Geoscience Wisconsin* section of the Survey's web site. When enough papers have been accepted and production completed, a limited number of copies of a full volume will be printed and distributed.

Geoscience Wisconsin

Wisconsin Geological and Natural History Survey
3817 Mineral Point Road
Madison, Wisconsin
53705-5100

☎ 608/262.1705

<http://www.uwex.edu/wgnhs/geoscience.htm>

Managing editor

Mindy James
mcjames@facstaff.wisc.edu

Associate editors

Kenneth R. Bradbury
krbradbu@facstaff.wisc.edu

Phillip E. Brown
pbrown@geology.wisc.edu

Charles W. Byers
cwbyers@geology.wisc.edu

Lee Clayton
lclayton@facstaff.wisc.edu

Mark T. Harris
mtharris@csd.uwm.edu