

# QUATERNARY RESEARCH

## SENIOR EDITORS

Derek B. Booth  
Alan R. Gillespie

## ASSOCIATE EDITORS

Patrick J. Bartlein, Bax R. Barton, John Dodson, Jaime Fucugauchi, John F. Hoffecker,  
Vance T. Holliday, Kathryn A. Hoppe, James C. Knox, Thomas M. Marchitto, Jr.,  
Curtis W. Marean, David J. Meltzer, Daniel R. Muhs, Michael A. O'Neal, W. Wyatt Oswald,  
Lewis A. Owen, Jay Quade, Gerard Roe, Ashok K. Singhvi, Xiaoping Yang

## EDITORS EMERITI

A. Lincoln Washburn  
Estella B. Leopold  
Stephen C. Porter  
Eric J. Steig

## MANAGING EDITOR

Karin Stewart-Perry

## Quaternary Research Center

Box 351360

University of Washington  
Seattle, WA 98195-1360

## EDITORIAL ADVISORY BOARD

THURE E. CERLING

University of Utah  
*Terrestrial Geochemistry and  
Cosmogenic Isotopes*

JOHN DODSON

Australian Nuclear Science and  
Technology Organization  
*Quaternary Environments*

YEHOUDA ENZEL

Hebrew University of Jerusalem  
*Desert Geomorphology*

DONALD K. GRAYSON

University of Washington  
*Archaeology and Vertebrate Paleontology:  
North America and Western Europe*

RICHARD G. KLEIN

Stanford University  
*Archaeology and Vertebrate Paleontology:  
Africa*

NICHOLAS LANCASTER

Desert Research Institute  
*Quaternary Geology and Geomorphology:  
Africa, Southwestern United States,  
Desert Regions*

SOCORRO LOZANO-GARCIA

Universidad Nacional Autónoma de México  
*Sediment and Ice-core Studies:  
Tropical America*

COLIN V. MURRAY-WALLACE

University of Wollongong  
*Coastal Evolution; Neotectonism;  
Geochronology*

MILAN J. PAVICH

U. S. Geological Survey  
*Quaternary Soils: Southeastern, Mid-  
Continent and Southwestern United States*

DAVID E. SUGDEN

University of Edinburgh  
*Glacial Geomorphology and Landscape  
Evolution: Antarctica, Iceland, Northwest  
Europe and Patagonia*

ANDREI A. VELICHKO

Russian Academy of Sciences  
*Geography and Geomorphology:  
Northern Eurasia*

KENNETH L. VEROSUB

University of California  
*Paleoclimatology: China, Russia, Antarctica,  
and North America*

CATHY L. WHITLOCK

Montana State University  
*Paleoecology and Vegetation History:  
North and South America*

LIPING ZHOU

Peking University  
*Loess, Geochronology, and Geomorphology:  
Central Asia, East Asia*



Quaternary Research is the research journal for the American Quaternary Association

Quaternary Research has no page charges. A full and complete Guide for Authors can be found at <http://elsevier.com/locate/yqres>.

*Cover photo.* The first light of dawn reveals Volcan San Pedro and the waters of Lago Atitln, Guatemala. The Lago Atitln caldera famously produced the ca. 84 ka Los Chocoyos Ash, a stratigraphic marker horizon in Central America. (View to the south, by Matthew S. Lachniet, June 2007. See the article by Roy and Lachniet, pages 1–7, in this issue.)