Quaternary Geologist and Geomorphologist

NEWSLETTER OF THE QUATERNARY GEOLOGY AND GEOMORPHOLOGY DIVISION

July 1979

KIRK BRYAN AWARD

The QG & G Panel has selected Stan Schumm's "The Fluvial System" as winner of the 1979 Kirk Bryan Award for the best paper in geomorphology or Quaternary geology. He is presently professor of geology at Colorado State University at Fort Collins. The award will be presented at the annual luncheon and business meeting during the GSA annual meeting in San Diego, November 5–8.

A long-time investigator of fluvial and slope processes, Stan has brought together much of his own work, together with the recent work of others, under a single cover, and he has approached fluvial processes from the viewpoint of whole drainage basins.

MACKIN GRANT

Winner of the 1979 J. Hoover Mackin Grant is Donna Marron, University of California, Berkeley, for her proposed research on past and present processes of hillslope evolution in the drainage basin of Redwood Creek in northwestern California.

Ms. Marron was a summa cum laude graduate of Tufts University and a member of Phi Beta Kappa and Sigma Xi Societies. Work on the project will be supervised by Professor Clyde Wahrhaftig.

Previous winners of the Mackin Grant include:

1974 Louis D. Carter — Quaternary geology in Baja California
1975 Phillip Davis — Cirque glacier fluctuations and lacustrine chronologies
1976 Award date changed
1977 David Muhs — Marine terraces—Soil development, San Clemente Island, California
1978 Lisa Osterman — Quaternary geology of Frobisher Bay, Baffin Island

PACIFIC COAST FRIENDS OF THE PLEISTOCENE, 1979 FIELD CONFERENCE

The 1979 Friends of the Pleistocene Field Trip is scheduled in two parts extending from Wednesday through Sunday, August 22–26, 1979. Bud Burke, Jim Yount, and Pete Birkeland will review the methods of relative dating of glacial deposits in the high country and along the eastern escarpment of the Sierra Nevada, California. Part 1 of the trip will be into the Fourth and Third Recesses, in the headwaters of Mono Creek (South Fork of San Joaquin River), and it will be conducted over the three-day span of Wednesday (Aug. 22) to Friday (Aug. 24). Part 2 of the trip will go from near Mammoth Lakes to Bridgeport, California, along Highway 395, and it will be conducted over the weekend of Saturday (Aug. 25) and Sunday (Aug. 26). The emphasis of the trip will be methodology and "hands on" involvement of the participants to (a) learn the methods and (b) check the results of these methods in terms of the stratigraphy proposed by us, in contrast to that of previous workers.

The stratigraphy to be studied during Part 1 of the trip includes Holocene and latest Wisconsinan cirque deposits, including representative Matthes and Recess Peak deposits. The relative dating methods to be discussed during this part of the trip include lichenometry, soil parameters, stone corner rounding, rind development, pitting, weathering, and oxidation of granitic clasts.

The stratigraphy to be studied during Part 2 of the trip includes the type Casa Diablo, type Mono Basin, and representative Tahoe, Tenaya, and Tioga deposits, all located along the eastern escarpment. In addition, a deposit of Sherwin(?) till will be visited. Relative dating methods to be discussed during this part of the trip include weathering, pitting, rind development, oxidation of granitic clasts, surface boulder frequency, moraine morphology, and soil parameters. Discussion will focus on methods, age resolution, and how best to correlate from drainage to drainage.

For additional information, contact Bud Burke, MS-75, U.S. Geological Survey, 345 Middlefield Road, Menlo Park, California 94025; (415) 323-8111, X2956.

SAN DIEGO GSA MEETING

In addition to the regular technical sessions, the annual meeting in San Diego, November 5–8, will include symposia and field trips of interest to geomorphologists and Quaternary geologists.

SYMPOSIA

Earthquake Hazards and Prediction: *James N. Brune and Kerry E. Sieh*

Project CLIMAP: Progress in Understanding Quaternary Climatic Change: *W. F. Ruddiman and W. L. Prell*

Water Quality Management: *John F. Mann, Jr., and Darwin Knochenmus*

FIELD TRIPS

Premeeting

Quaternary Terraces and Crustal Deformation in Coastal Southern California: J. Philip Kern, San Diego State University; and Ken Lajoie, U.S. Geological Survey, Menlo Park

Roundtrip Flight to Colorado Plateau: John S. Shelton, Consultant; John Crowell, University of California, Santa Barbara; and Gregory A. Davis, University of Southern California

Geomorphology of the Salton Basin: Robert Norris and Edward Keller, University of California, Santa Barbara; and George Meyer, College of the Desert

Geology of Death Valley: Bennie Troxel, University of California, Davis; and Lauren Wright, Pennsylvania State University

Some Prehistoric Earthquakes on the San Andreas Fault, Los Angeles Area: Kerry Sieh, California Institute of Technology

Evaporites and Related Minerals in the Death Valley and Mojave Desert Region: G. I Smith, U.S. Geological Survey, Menlo Park

Water Management Practices in Coastal Southern California: Darwin Knochenmus and William Hardt, U.S. Geological Survey, Laguna Niquel; and John Mann, Jr., Consultant

Postmeeting

Geologic Hazards in San Diego: William J. Elliott, Consultant

San Andreas Fault, Salton Trough: John C. Crowell and Arthur G. Sylvester, University of California, Santa Barbara

• Plan also to attend the Division luncheon and presentation of the Kirk Bryan Award on Tuesday, November 6. Tickets available with preregistration.

DIVISION MEMBERSHIP

After the initiation of dues several years ago, Division membership declined to a "hard-core" number of Quaternary geologists. Since then, the number of members has risen 25% and now stands at 1,045.

Dues are used to cover costs of the newsletter, ballots for election of officers and panel, and other mailing expenses.

Don J. Easterbrook
Secretary

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