



Quaternary Geologist and Geomorphologist

NEWSLETTER OF THE QUATERNARY GEOLOGY AND GEOMORPHOLOGY DIVISION

November 1978

ELECTIONS

Officers and the Division Panel for 1978-79 elected by the membership this fall are:

Chairman: William B. Bull
First Vice Chairman: Stan Schumm
Second Vice Chairman: Marie Morisawa

Returning Panel members (1977-78): Jim Benedict
Bill Farrand
Sid White

New Panel members (1977-79): Jack Armstrong
Peter Birkeland
Ken Pierce

KIRK BRYAN AWARD

The Division Panel selected R.L. Hay, University of California at Berkeley, as recipient of the 1978 Bryan Award for his 1976 paper "Geology of the Olduvai Gorge - a study of sedimentation in a semiarid basin," published by Univ. of Calif. Press, Berkeley, California. A \$500 award and certificate were presented to Dr. Hay at the annual meeting in Toronto during the Division Business Meeting, Oct. 24. William Farrand, Univ. of Michigan, made the citation, some excerpts of which are given below.

"Hay's interdisciplinary work on the Olduvai Gorge represents one of the most comprehensive Quaternary paleoenvironmental reconstructions ever made and is a model of such investigations. The geologic reconstructions and radiometric dating have been of fundamental importance in interpreting the remains of early man that have been uncovered in the gorge, largely through the efforts of L.S.B. and Mary Leakey. Hay's thorough discussions of the stratigraphy, lithofacies, age, depositional and climatic environments, and anthropological associations provide the basis for synthesizing the structural and paleogeographic development of the Olduvai Basin and the environmental changes that occurred while man was evolving in East Africa."

"From a geologist's point of view, the best thing that could have happened at Olduvai Gorge was the arrival of Richard L. Hay. He brought order to stratigraphic relations that were previously confused and applied an extraordinary combination of skills in sedimentation, geochemistry, mineralogy, and volcanology to comprehend the paleoenvironment of man's earliest ancestors--a grasp of interdisciplinary concepts that commands the admiration of geologists and archaeologists around the world.

The book here nominated gives the results of 14 years of Professor Hay's research at Olduvai, relating the dozens of archaeological sites that have been excavated over many decades to the vertical and horizontal complexities of former sedimentary environments. The environments in turn are reconstructed by deducing the former hydrology, volcanic and sedimentary processes, changes in climate, and tectonic history."

RECIPIENTS OF THE KIRK BRYAN AWARD

- 1958 Luna B. Leopold and Thomas J. Maddock, Jr.
U. S. Geological Survey *The hydraulic geometry of stream channels and some physiographic implications: U. S. Geol. Surv. Prof. Paper 252, 57 pp., 1953.*
- 1959 Jack L. Hough
University of Illinois *Geology of the Great Lakes: University of Illinois Press, 313 pp., 1958.*
- 1960 John F. Nye
University of Bristol *The distribution of stress and velocity in glaciers and ice sheets: Roy. Soc. Procc. A., v. 239, p. 113-133, 1957.*
- 1961 John T. Hack
U. S. Geological Survey *Studies of longitudinal stream profiles in Virginia and Maryland: U. S. Geol. Sur. Prof. Paper 294B, 97 pp., 1957.*
- 1962 Anders Rapp
University of Uppsala *Recent development of mountain slopes in Kärkevagge and surroundings, northern Scandinavia: Geografiska Annaler, v. 42, p. 71-200, 1960.*
- 1963 Arthur H. Lachenbruch
U. S. Geological Survey *Mechanics of thermal contraction cracks and ice-wedge polygons in permafrost: Geol. Soc. Amer. Special Paper 70, 69 pp., 1962.*
- 1964 Robert P. Sharp
Calif. Inst. Technology *Wind ripples: Jour. Geol., v. 71, p. 617-636, 1963.*
- 1965 Gerald M. Richmond
U. S. Geological Survey *Quaternary stratigraphy of the La Sal Mountains, Utah: U. S. Geol. Sur. Prof. Paper 324, 135 pp., 1962.*
- 1966 Charles S. Denny
U. S. Geological Survey *Alluvial fans in the Death Valley region: U. S. Geol. Surv. Prof. Paper 466, 62 pp., 1965.*
- 1967 Clyde A. Wahrhaftig
Univ. of California
at Berkeley *Stepped topography of the southern Sierra Nevada, California: Geol. Soc. Amer. Bull., v. 76, p. 1165-1190, 1965.*
- 1968 David M. Hopkins
U. S. Geological Survey *Quaternary marine transgressions in Alaska: in The Bering Land Bridge, Stanford University Press, p. 47-90, 1967.*
- 1969 Ronald L. Shreve
Univ. of Calif.-Los Angeles *The Blackhawk Landslide: Geol. Soc. Amer. Spec. Paper 108, 47 pp., 1968.*
- 1970 Harold E. Malde
U. S. Geological Survey *The catastrophic late Pleistocene Bonneville flood in the Snake River Plain, Idaho: U. S. Geol. Sur. Prof. Paper 596, 55 pp., 1968.*
- 1971 A. Lincoln Washburn
University of Washington *Instrumental observations of mass wasting in the Mesters Vig. district, northeast Greenland: Medd. Grönland, bd. 166, nr. 4, 1967; and Weathering, frost action, and patterned ground in the Mesters Vig. district, northeast Greenland: Medd. Grönland, bd. 166, nr. 4, 1969.*

- 1972 Dwight R. Crandell
U. S. Geological Survey *Postglacial lahars from Mt. Rainier volcano, Washington: U. S. Geol. Sur. Prof. Paper 677, 75 pp., 1971*
- 1973 John T. Andrews
University of Colorado *A geomorphological study of post-glacial uplift: Spec. Pub. no. 2, Inst. of British Geographers, London, 156 pp., 1970.*
- 1974 Robert V. Ruhe
Indiana University *Quaternary landscapes in Iowa: Iowa State Univ. Press, 255 pp., 1969.*
- 1975 James B. Benedict *Downslope soil movement in a Colorado alpine region: rates, processes and climatic significance: Arctic and Alpine Research, v. 2, p. 165-226, 1970.*
- 1976 Geoffrey S. Boulton
Univ. of East Anglia *Processes and patterns of glacial erosion: 5th Geomorph. Symp. Proceedings, State Univ. New York, Binghamton, 1974.*
- 1977 Michael Church
Univ. of British Columbia *Baffin Island sandur: Geol. Survey of Canada, Bulletin 216, 208 p.*
- 1978 Richard L. Hay
Univ. Calif. at Berkeley *Geology of the Olduvai Gorge - a study of sedimentation in a semiarid basin: Univ. of Calif. Press, Berkeley, California.*

DIVISION PANEL NOMINATIONS

Three members of the six-person Division Panel are elected each year. Any voting affiliate may be nominated by members in good standing (those who have paid their annual dues). Names of the six persons receiving the most ballots for nomination will appear on the annual spring ballot.

Nominations* for Panel Members (deadline February 15, 1978)

Clip out and return this ballot to: Don J. Easterbrook
Department of Geology
Western Washington University
Bellingham, WA 98225

*by voting affiliates

All voting affiliates of the Division are eligible except officers and present or retiring panel members (see above).

(1) _____ (2) _____ (3) _____

(The six names receiving the highest number of votes will appear on the annual ballot.)

GSA ANNUAL MEETING, TORONTO

The Geological Association of Canada, meeting in Toronto with the G.S.A., awarded the 1978 Logan Medal to Aleksis Dreimanis, University of Western Ontario, for his work on Quaternary geology of eastern Canada. Dreimanis came to Canada in 1948 from Latvia, his native country, and has spent many years studying Pleistocene deposits in Ontario. He is currently chairman of the INQUA Commission on genesis and classification of glacial deposits.

MACKIN GRANT

Winner of the 1978 Mackin grant, announced at the Toronto annual luncheon, is Lisa Osterman, University of Colorado.

The deadline for receipt of applications for the Mackin grant for research in geomorphology or Quaternary geology is January 15. A stipend of not less than \$200 will be given as a cash grant to assist promising graduate student research. Announcement of the winner will be made early in the spring and funds made available prior to the 1979 summer field season.

Application forms may be obtained from the Division Secretary, Don J. Easterbrook, Dept. of Geology, Western Washington University, Bellingham, Washington 98225. Information required with the application includes (1) a résumé of the applicant, (2) statement of proposed research, and (3) a letter of reference from the thesis advisor. In the event of more than one application from a single department, the department will be asked to screen the applications and indicate priorities. Evaluation of the proposals will be made by the Division Management Board during winter quarter.

Recent and unusually substantial contributions to the Mackin Fund have been made by Michael Church and Dwight Schmidt.

Contributions to the fund may be made to J. Hoover Mackin Fund, Geological Society of America, 3300 Penrose Place, Boulder, Colorado 80301



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