



Quaternary Geologist and Geomorphologist

NEWSLETTER OF THE QUATERNARY GEOLOGY AND GEOMORPHOLOGY DIVISION

December 1976

MACKIN GRANT

The deadline for applications for the annual Mackin Grant has been moved from October to January 15. Announcement of the winner will be made soon thereafter and funds made available prior to the summer field season. The amount of the grant will not be less than \$200.

Application forms may be obtained from the Division Secretary, Don J. Easterbrook, Department of Geology, Western Washington State College, Bellingham, Washington, 98225. Information required includes a resume, statement of proposed research, and a letter of reference from the thesis advisor. Applications will be evaluated by the Division Management Board.

KIRK BRYAN AWARD

Nominations for the 1977 Bryan Award "to the author or authors of a published paper of distinction advancing the science of geomorphology or some related field, as Pleistocene Geology," may be sent to the Division Secretary until January 1. All nominated papers must have been published within the past five years. A supporting statement should accompany all nominations and copies of papers from difficult-to-obtain journals would be appreciated.

Any dues-paying member of the Division may nominate a paper (or papers) which meet the requirement outlined above. Evaluation of nominated papers and selection of the winner is made by the QG&G Panel during the winter and the award is presented at the annual luncheon at the national GSA meeting.

SEATTLE MEETING

Next year's GSA meeting will be held in Seattle where the Division plans to sponsor two 1/2-day symposia on "The Last Glaciation" and "Tephrochronology". In addition, there will be three 1/2-day technical sessions and several field trips of interest to geomorphologists and Quaternary geologists. A one-day trip is planned to examine evidence for Pleistocene chronology and genesis of glacial deposits in the Puget Lowland. A two-day post-meeting excursion will look at the Spokane (Bretz) catastrophic flooding of the Columbia Plateau Scablands and will include classic examples of drumlins, eskers, outwash terraces, kames and moraines of the Okanogan lobe of the Cordilleran Ice Sheet.

MEMBERS OF THE GEOMORPHOLOGY PANEL

| | | | | | |
|--------------|--|------------------------|--|--------------|--|
| 1957-59..... | S. Judson J. C. Frey W. D. Thornbury J. T. Hack A. N. Strahler A. D. Howard | 1966-67..... | W. C. Bradley D. F. Eschman E. H. Muller A. L. Bloom J. T. Hack C. A. Wahrhaftig | 1972-73..... | P. W. Birkeland L. Clayton M. Morisawa R. R. Curry R. J. Janda S. C. Porter |
| 1959-61..... | L. B. Leopold J. P. Miller G. M. Richmond R. P. Sharp M. G. Wolman J. H. Zumberge | 1967-68..... | J. H. Hartshorn T. L. Pewe M. G. Wolman W. C. Bradley D. F. Eschman E. H. Muller | 1973-74..... | J. T. Andrews W. B. Bull J. H. Hartshorn P. W. Birkeland L. Clayton M. Morisawa |
| 1961-62..... | R. F. Black R. P. Goldthwait H. E. Wright, Jr. C. S. Denny R. L. Nichols A. N. Strahler | 1968-69..... | D. R. Crandell S. C. Porter A. L. Washburn J. H. Hartshorn T. L. Pewe M. G. Wolman | 1974-75..... | J. T. Andrews W. B. Bull J. H. Hartshorn W. H. Johnson K. L. Pierce J. W. Hawley |
| 1962-63..... | E. H. Muller P. R. Shaffer C. A. Wahrhaftig R. F. Black R. P. Goldthwait H. E. Wright, Jr. | 1969-70..... (Jan.) | W. C. Bradley A. L. Bloom R. L. Shreve D. R. Crandell S. C. Porter A. L. Washburn | 1975-76..... | W. H. Johnson K. L. Pierce J. W. Hawley P. W. Birkeland E. H. Muller S. C. Porter |
| 1963-64..... | W. C. Brakley D. R. Crandell D. F. Eschman E. H. Muller P. R. Shaffer C. A. Wahrhaftig | 1969-70..... (Nov.) | P. W. Birkeland H. W. Borns, Jr. D. J. Easterbrook W. C. Bradley A. L. Bloom R. L. Shreve | 1976-77..... | P. W. Birkeland E. H. Muller S. C. Porter J. T. Andrews V. M. Baker M. Morisawa |
| 1964-65..... | S. A. Schumm A. N. Strahler S. E. White *W. C. Bradley J. H. Mackin D. R. Crandell D. F. Eschman | 1970-71..... | P. W. Birkeland H. W. Borns, Jr. *D. J. Easterbrook M. Morisawa J. H. Hartshorn R. V. Ruhe S. E. White | | |
| 1965-66..... | A. L. Bloom J. T. Hack C. A. Wahrhaftig S. A. Schumm A. N. Strahler S. E. White | 1971-72..... | J. W. Hartshorn R. V. Ruhe S. E. White R. R. Curry R. J. Janda S. C. Porter | | |

*resigned to accept office

ELECTIONS

Officers and members of the Division Panel for 1976-77 were elected by the membership.

Chairman: William C. Bradley
First Vice Chairman: Arthur L. Bloom
Second Vice Chairman: William B. Bull
Secretary: Don J. Easterbrook

New Panel members (1976-78): John Andrews
Victor M. Baker
Marie Morisawa

Returning Panel members (1975-77): Peter W. Birkeland
Ernest H. Muller
Stephen C. Porter

Bylaw change: Nomination for Panel members by the Division membership prior to balloting.

For: 222
Against: 3

Nominations for Panel Members (deadline January 15, 1977)

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

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.)

OFFICERS OF THE DIVISION

| | <u>Chairman</u> | <u>First Vice-Chairman</u> | <u>Second Vice-Chairman</u> | <u>Secretary</u> |
|-------------------------|-------------------|----------------------------|-----------------------------|-------------------|
| 1977 | W. C. Bradley | A. L. Bloom | W. B. Bull | D. J. Easterbrook |
| 1976 | L. H. Lattman | W. C. Bradley | A. L. Bloom | D. J. Easterbrook |
| 1975 | R. L. Nichols | L. H. Lattman | W. C. Bradley | D. J. Easterbrook |
| 1974 | D. R. Crandell | R. L. Nichols | L. H. Lattman | D. J. Easterbrook |
| 1973 | H. E. Malde | D. R. Crandell | R. L. Nichols | D. J. Easterbrook |
| 1972 | R. F. Flint | H. E. Malde | D. R. Crandell | D. J. Easterbrook |
| 1971 | R. P. Goldthwait | R. F. Flint | H. E. Malde | D. J. Easterbrook |
| 1970 | D. M. Hopkins | R. P. Goldthwait | R. F. Flint | S. E. White |
| 1969 | A. D. Howard | D. M. Hopkins | R. P. Goldthwait | S. E. White |
| 1968 | W. D. Thornbury | A. D. Howard | D. M. Hopkins | S. E. White |
| 1967 | H. E. Wright, Jr. | W. D. Thornbury | A. D. Howard | S. E. White |
| 1966 | R. F. Black | S. Judson | H. E. Wright, Jr. | L. H. Nobles |
| 1965 | G. M. Richmond | R. F. Black | S. Judson | L. H. Nobles |
| 1964 | A. L. Washburn | W. C. Bradley | G. W. Holmes | L. H. Nobles |
| 1963 | L. B. Leopold | A. L. Washburn | D. M. Hopkins | L. H. Nobles |
| 1962 | J. G. Fyles | J. H. Zumberge | M. G. Wolman | L. H. Nobles |
| 1961 | J. T. Hack | H. N. Fisk | J. G. Fyles | L. H. Nobles |
| 1960 | C. S. Denny | R. V. Ruhe | J. T. Hack | H. E. Wright, Jr. |
| 1959 | G. W. White | H. T. U. Smith | J. T. Hack | H. E. Wright, Jr. |
| 1958 | G. W. White | H. T. U. Smith | J. H. Zumberge | H. E. Wright, Jr. |
| 1957 | J. H. Mackin | C. S. Denny | J. H. Zumberge | H. E. Wright, Jr. |
| 1956 | J. H. Mackin | C. S. Denny | A. N. Strahler | R. P. Goldthwait |
| 1955 | E. Blackwelder | J. C. Frye | A. N. Strahler | R. P. Goldthwait |
| <u>Ad Hoc Committee</u> | W. C. Putnam | L. B. Leopold | R. P. Goldthwait | A. N. Strahler |

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| Chairman: | William C. Bradley |
| First Vice Chairman: | Arthur L. Bloom |
| Second Vice Chairman: | William B. Bull |
| Secretary: | Don J. Easterbrook |

New Panel members (1976-78): John Andrews
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For: 222
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RECIPIENTS OF THE KIRK BRYAN AWARD

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