



THE
GEOLOGICAL SOCIETY
OF AMERICA

Quaternary Geologist and Geomorphologist

NEWSLETTER OF THE QUATERNARY GEOLOGY AND GEOMORPHOLOGY DIVISION OF THE GEOLOGICAL SOCIETY OF AMERICA

February 1971

1971 OFFICERS AND PANEL MEMBERS

In April 1970, a nominating committee of Arthur L. Bloom, Don J. Easterbrook, and Clyde A. Wahrhaftig, Chairman, selected a slate of officers for 1971 Chairman and Vice-Chairmen. Wahrhaftig and Bloom assumed responsibility for nominating a candidate for Secretary. This slate was offered to you in October 1970 in ballot form with a request for nominating three new panel members to serve from November 1970 through November 1972. About 630 ballots were sent from GSA Headquarters in Boulder; 43 percent were returned, some by special delivery and some by rather expensive air mail from overseas.

The officers of the Division for 1971 are Richard P. Goldthwait, Chairman; Richard F. Flint, First Vice-Chairman; Harold E. Malde, Second Vice-Chairman; and Don J. Easterbrook, Secretary.

Of the 270 ballots received by November 7, only 225 (35 percent of the Division) contained nominations for panel members. The new panel members, to serve for the next two years, are Joseph H. Hartshorn, Robert V. Ruhe, and Sidney E. White.

The three panel members to serve for one remaining year are Peter W. Birkeland, Harold W. Borns, Jr., and Don J. Easterbrook. Since Don Easterbrook cannot hold two positions, he stepped down from the Panel, and Marie Morisawa was invited to serve in his place. She has accepted the responsibility and will serve this year.

CHANGES IN THE DIVISION'S BYLAWS

In May 1970, after approval by the Management Board of the Division and by the Council of The Geological Society of America, following the proper procedure in making changes to a Division's Bylaws, 628 ballots were sent for a vote by the Division on three proposals. The first proposal was to change the name of the Division to Quaternary Geology and Geomorphology, the second was to change the time officers begin their terms, and the third was to add a choice for Second Vice-Chairman on the ballot each year. Hardly more than 51 percent of the Division replied; we were astonished by the lack of interest of so many. After the initial ballot, one reminder to reply was included on the last page of *The Geomorphologist* in July, and a second reminder to reply was sent in October on the Ballot Information for new officers and panel members, and yet, no additional votes were received after the fourth of July.

The proposal to change the name of the Division to Quaternary Geology and Geomorphology was passed by a yes vote of 41 percent of the Division. Nine percent voted against the change.

The proposal to have the new terms of office for all officers begin at the end of the Annual Business Meeting of the Division was passed by a yes vote of 48 percent over a no vote of one-half percent.

The proposal to add a dual slate for Second Vice-Chairman on the ballot for annual election of officers, so that one candidate for Chairman and for First Vice-Chairman but two candidates for Second Vice-Chairman will be offered to the Division, passed by a yes vote of 44 percent over a no vote of nine percent of the Division. The reason for discrepancy in the above figures is that not all who returned the ballots voted on all proposals. In fact, more than 20 persons voted on only the front side of the ballot and skipped the second and third proposals; others had fun adding question marks here and there, or placing their x's between the Yes and No positions. Others were so excited by the voting they forgot to affix postage!

BRIEF NEWS

Slow but sure progress is being made on the Hoover Mackin Quaternary Research Fund, an idea fostered by quite a number of geomorphologists in the past two years, and to be sponsored by the Division, hopefully through the auspices of The Geological Society of America. It appears at this writing that the Division will soon try to establish a Hoover Mackin Award to be offered annually to provide financial support for a research project in the field of geomorphology or Quaternary geology for some deserving graduate student. Complete information about this award will appear in later issues of *The Geomorphologist*.

The Division expects to sponsor another symposium at the GSA Annual Meeting in Washington, D. C., on Rates of Denudation and Sedimentation.

Continuing our policy of listing recent publications that we and many others believe are of prime importance in advancing Quaternary geology and geomorphology, we herewith submit the following for your consideration:

- Benedict, James B., 1967-1968, Recent glacial history of an alpine area in the Colorado Front Range, U.S.A. I. Establishing a lichen-growth curve, *Jour. Glaciol.*, v. 6, p. 817-832 (1967); II. Dating the glacial deposits, *Jour. Glaciol.*, v. 7, p. 77-87 (1968)
- Bloom, Arthur L., 1967, Pleistocene shorelines: a new test of isostasy, *Geol. Soc. Amer. Bull.*, v. 78, p. 1477-1494
- Bryan, Rorke B., 1968-1969, The development, use and efficiency of indices of soil erodibility, *Geoderma*, v. 2, Elsevier Publ. Co.
- Cox, Allan, 1969, Geomagnetic reversals, *Science*, v. 163, p. 237-244
- Ruhe, Robert V., 1969, Quaternary landscapes in Iowa, Iowa State University Press
- Schumm, Stanley A., 1968, River adjustment to altered hydrologic regimen--Murrumbidgee River and paleochannels, Australia, U. S. Geol. Survey Professional Paper 598, 65 pp.
- Washburn, A. Lincoln, 1967, Instrumental observations of mass-wasting in the Mesters Vig district, northeast Greenland, *Meddelelser om Grønland* Bd. 166, Nr. 4, 296 pp.

OFFICERS AND PANEL MEMBERS

For the benefit of all affiliates of the Quaternary Geology and Geomorphology Division, we believe it worthwhile to list all those who have served the Division either as officers or as panel members.

Officers of the Division

	<u>Chairman</u>	<u>First Vice- Chairman</u>	<u>Second Vice- Chairman</u>	<u>Secretary</u>
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
<i>Ad Hoc</i> Committee				
	W. C. Putnam	L. B. Leopold	R. P. Goldthwait	A. N. Strahler

Members of the Geomorphology Panel

1970.....	P. W. Birkeland H. W. Borns, Jr. D. J. Easterbrook W. C. Bradley A. L. Bloom R. L. Shreve	1966-1967..	W. C. Bradley D. F. Eschman E. H. Muller A. L. Bloom J. T. Hack C. A. Wahrhaftig	1962-1963..	E. H. Muller P. R. Shaffer C. A. Wahrhaftig R. F. Black R. P. Goldthwait H. E. Wright, Jr.
1969.....	W. C. Bradley A. L. Bloom R. L. Shreve D. R. Crandell S. C. Porter A. L. Washburn	1965-1966..	A. L. Bloom J. T. Hack C. A. Wahrhaftig S. A. Schumm A. N. Strahler S. E. White	1961-1962..	R. F. Black R. P. Goldthwait H. E. Wright, Jr. C. S. Denny R. L. Nichols A. N. Strahler
1968.....	D. R. Crandell S. C. Porter A. L. Washburn J. H. Hartshorn T. L. Péwé M. G. Wolman	1964-1965..	S. A. Schumm A. N. Strahler S. E. White (W. C. Bradley) J. H. Mackin D. R. Crandell D. F. Eschman	1959-1961..	L. B. Leopold J. P. Miller G. M. Richmond R. P. Sharp M. G. Wolman J. H. Zumberge
1967-1968..	J. H. Hartshorn T. L. Péwé M. G. Wolman W. C. Bradley D. F. Eschman E. H. Muller	1963-1964..	W. C. Bradley D. R. Crandell D. F. Eschman E. H. Muller P. R. Shaffer C. A. Wahrhaftig	1957-1959..	S. Judson J. C. Frye W. D. Thornbury J. T. Hack A. N. Strahler A. D. Howard

1955-1957..R. F. Flint
 R. P. Goldthwait
 H. T. U. Smith
 J. H. Mackin
 R. P. Sharp
 A. N. Strahler

Original Panel--1954..E. Blackwelder
 R. P. Goldthwait
 L. Horberg
 J. H. Mackin
 R. P. Sharp
 A. N. Strahler

KIRK BRYAN AWARD

The citation for the Kirk Bryan Award for 1970 was read by Chairman David M. Hopkins at the Annual Business Meeting of the Division in Milwaukee, Wisconsin, on November 12, 1970, in honor of Award-Winner Harold E. Malde for his dramatic and beautifully written 1968 Geological Survey Professional Paper 596 on The Catastrophic Late Pleistocene Bonneville Flood in the Snake River Plain, Idaho. After receiving the Award, Hal Malde accepted by reading a very moving response.

For the benefit of the affiliates of the Division, we believe it would be helpful to list here all recipients of the Kirk Bryan Award and the papers that earned the Award for them. Each of us then may have the names of past recipients and their papers right in front of us when proposing a paper to the Panel for a future Award.

Recipients of the Kirk Bryan Award

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|------|--|---|
| 1970 | Harold E. Malde
U. S. Geological Survey | The catastrophic late Pleistocene Bonneville flood in the Snake River Plain, Idaho, U. S. Geol. Survey Prof. Paper 596, 52 pp., 1968 |
| 1969 | Ronald L. Shreve
University of California
at Los Angeles | The Blackhawk Landslide, Geol. Society America Spec. Paper 108, 47 pp., 1968 |
| 1968 | David M. Hopkins
U. S. Geological Survey | Quaternary marine transgressions in Alaska, <i>in The Bering Land Bridge</i> , Stanford University Press, p. 47-90, 1967 |
| 1967 | Clyde A. Wahrhaftig
University of California
at Berkeley | Stepped topography of the southern Sierra Nevada, California, <i>Geol. Soc. Amer. Bull.</i> , v. 76, p. 1165-1190, 1965 |
| 1966 | Charles S. Denny
U. S. Geological Survey | Alluvial fans in the Death Valley region, U. S. Geol. Survey Prof. Paper 466, 62 pp., 1965 |
| 1965 | Gerald M. Richmond
U. S. Geological Survey | Quaternary stratigraphy of the La Sal Mountains, Utah, U. S. Geol. Survey Prof. Paper 324, 135 pp., 1962 |
| 1964 | Robert P. Sharp
Calif. Inst. of Technology | Wind ripples, <i>Jour. Geol.</i> , v. 71, p. 617-636, 1963 |
| 1963 | Arthur H. Lachenbruch
U. S. Geological Survey | Mechanics of thermal contraction cracks and ice-wedge polygons in permafrost, Geol. Society America Spec. Paper 70, 69 pp., 1962 |
| 1962 | Anders Rapp
University of Uppsala,
Sweden | Recent development of mountain slopes in Kärkevagge and surroundings, northern Scandinavia, <i>Geografiska Annaler</i> , v. 42, p. 71-200, 1960 |
| 1961 | John T. Hack
U. S. Geological Survey | Studies of longitudinal stream profiles in Virginia and Maryland, U. S. Geol. Survey Prof. Paper 294B, 97 pp., 1957 |

- 1960 John F. Nye
University of Bristol The distribution of stress and velocity in glaciers and ice-sheets, *Roy. Soc. Proc.*, A, v. 239, p. 113-133, 1957
- 1959 Jack L. Hough
University of Illinois Geology of the Great Lakes, University of Illinois Press, 313 pp., 1958
- 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. Survey Prof. Paper 252, 57 pp., 1953

Sidney E. White
Secretary
Quaternary Geology and
Geomorphology Division

FROM THE SECRETARY-ELECT

One of the vital reasons for the success of the Division has been the cohesive force of Sid White during the past six years. The letter below from outgoing President Dave Hopkins summarizes many of the feelings of members of the Division as Sid White retires from his secretarial duties.

Don J. Easterbrook
Secretary-Elect
Quaternary Geology and
Geomorphology Division

Dear Sid:

After the shouting was over, and in the quiet of my jet trip home from Milwaukee, I was pierced by a painful pang of regret, as I realized that I had omitted something really important that I had wanted to say, while we Geomorphologists and Quaternary Geologists were lunching together. I wanted to tell them that you are the person that has kept the Geomorphology group functioning during these past six years. Presidents have come and presidents have gone, but it has been Sid White, our Secretary-Editor, that welded the Geomorphology and Quaternary Geology Division into an organization that gave us a sense of identity and communication, that saw things through, that gently prodded the more ephemeral officers to do those few things that lay beyond your own responsibilities.

I really thank you, Sid, for helping in so many ways to make my own three years as an officer meaningful and effective. But most of all, I thank you for making the Division what it is.

Sincerely,
David M. Hopkins

NEW EDITOR OF *THE GEOMORPHOLOGIST*

As a result of a plea for volunteers to take the place of Sid White as Editor of *The Geomorphologist*, three kind persons offered their services. The officers of the Division unanimously chose Don J. Easterbrook. Don is now the one to whom to send news about your recently completed research, current research activity, and plans for the future; he is at the Department of Geology, Western Washington State College, Bellingham, Washington 98225. Would you please send Don Easterbrook, Editor, your news for *The Geomorphologist* by March 15, 1971.

SECTION AFFILIATIONS AND MAILING LISTS

Many members, both new and old, have inquired as to affiliation with one or more of the Society's geographic Sections. The method is simplicity itself. All members are automatically recorded as affiliates of the Sections in which they reside. As affiliates, they receive all mailings for their own Section.

Any member interested in news of a Section or Sections other than his own need only to ask Headquarters to put his name on the appropriate mailing lists. Meeting announcements and other mailings will come to him automatically until he cancels his request.

SCHEDULE OF 1971 SECTION MEETINGS

- March 18, 19, and 20---NORTHEASTERN SECTION MEETING, Hartford, Connecticut
Arthur A. Socolow, *Secretary*
- March 25, 26, and 27---CORDILLERAN SECTION MEETING, Riverside, California
Bates McKee, *Secretary*
- March 25, 26, and 27---SOUTH-CENTRAL SECTION MEETING, Lubbock, Texas
Melvin C. Schroeder, *Secretary*
- April 29 - May 1-----NORTH-CENTRAL SECTION MEETING, Lincoln, Nebraska
George R. Rapp, Jr., *Secretary*
- May 5, 6, 7, and 8-----SOUTHEASTERN SECTION MEETING, Blacksburg, Virginia
Henry S. Brown, *Secretary*
- May 13 and 14-----ROCKY MOUNTAIN SECTION MEETING, Calgary, Alberta, Canada
William K. Hamblin, *Secretary*



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