



# Quaternary Geologist and Geomorphologist

NEWSLETTER OF THE QUATERNARY GEOLOGY AND GEOMORPHOLOGY DIVISION

VOLUME 22, NO. 1

JANUARY 1982

## QUATERNARY GEOLOGY AND GEOMORPHOLOGY DIVISION ELECTIONS

Division officers and members of the Panel elected for 1982 by the membership are:

Chairman.....Troy Pew  
 First Vice-Chairman.....John Andrews  
 Second Vice-Chairman.....Don Easterbrook  
 Secretary.....Richard Madole

### New Panel Members (1981-83)

Robert Black  
 Joe Hartshorn  
 Nat Rutter

### Returning Panel members (1980-82)

Ed Evenson  
 George I. Smith  
 Allan Schneider

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### Nominations for 1982 Panel Members

Clip out and mail this ballot before March 15, 1982, to . . . Richard F. Madole  
 U.S. Geological Survey  
 Box 25046, MS 913  
 Denver, CO 80225

All voting affiliates (dues paying members) are eligible for nomination to the Panel except officers and present or retiring Panel Members (see listings above). The six names receiving the highest number of votes will appear on the annual ballot. Each voting affiliate of the Division may nominate up to three persons.

- (1) \_\_\_\_\_  
 (2) \_\_\_\_\_  
 (3) \_\_\_\_\_
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## ACTIONS OF THE MANAGEMENT BOARD AT THE CINCINNATI MEETING

The number of Mackin Grants to be awarded and the deadline for application were changed at the Cincinnati Meeting. This year two awards of \$500 each will be made, one to a Masters degree candidate and one to a Ph. D. candidate. The deadline for application is now February 15 rather than March 15. Applications should be returned to the Division Secretary, Richard F. Madole, U.S. Geological Survey, Box 25046, MS 913, Denver, CO 80225.

### MACKIN GRANT

The deadline for receipt of applications for the Mackin Grant for research in geomorphology or Quaternary geology is February 15. This year two awards of \$500 each will be made as cash grants to assist promising graduate student research. One grant will go to a Masters degree candidate and one to a Ph. D. candidate. Announcement of the winners will be made early in the spring and funds made available prior to the 1982 summer field season.

Application forms may be obtained from the Division Secretary, Richard F. Madole, U.S. Geological Survey, Box 25046, MS 913, Denver, CO 80225. Information required with the application includes (1) a resume 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.

### 1981 MACKIN GRANT WINNERS

Voting for the 1981 Mackin Grant ended in a tie; hence, two grants were awarded. Julie Brigham, University of Colorado, received a Mackin Grant for proposed research on the chronology of Pleistocene marine deposits in coastal Alaska. Mary Gillam, also of the University of Colorado, received a Mackin Grant for proposed research on age and climate effects on soil development, Colorado and New Mexico.

COLE GRANT

The Gladys W. Cole Research Grant has been established by GSA, and it is hoped that the first grant will be awarded in 1982. Administered in accordance with the guidelines specified by the donor, the award will be restricted to investigation of the geomorphology of semiarid and arid terrains in the United States and Mexico. It will be given each year to a GSA Fellow between 35 and 60 years of age who has published one or more significant papers on geomorphology. Funds cannot be used for work already accomplished. The grant will be for \$1,000 or more, since only the interest of the fund may be used.

Official application forms and additional information may be obtained from the Executive Director, The Geological Society of America, P.O. Box 9140, Boulder, CO 80301. Phone (303)447-2020. Applications must be postmarked by February 15 to be eligible.

KIRK BRYAN AWARD FOR 1981

J. Ross Mackay for his paper "Pingos of the Tuktoyaktuk Peninsula Area, Northwest Territories," published in 1979 in Geographie Physique et Quaternaire, volume XXXIII, p. 3-61.

Citation by A. Lincoln Washburn

Regrettably Ross Mackay can not be with us, although were he present he would deny being the exceptional individual, both as a scientist and as a person, that many of us know him to be. However, his protest would be of no avail since the evidence is overwhelming.

As a person, he is beloved because of his integrity in all things, his straight-forwardness in speech and writing, his quiet, self-effacing manner, his ability to listen, his sense of humor--which his intimates know is not above practical jokes--and his sense of responsibility to students and to any obligation he assumes. His absence today illustrates his sense of duty; namely, he had accepted membership on a visiting committee whose first meeting was scheduled for today before he knew of his selection for the Kirk Bryan Award, and he was unwilling to shirk the prior responsibility.

As a scientist, Ross is internationally accepted as having few if any equals among periglacial researchers--I personally know of none. He has spent a lifetime of work on periglacial problems, mainly in the field but also in the laboratory. He is particularly well known for his innovative field experiments, conducted year after year and at all seasons including the middle of the winter at temperatures as low as -40° C. Time after time the results have demonstrated his ability to bring new insights by questioning and re-evaluating commonly accepted dogmas.

Not only has he showed the way in innovative periglacial experiments but he has also led by virtue of his many geomorphic and Quaternary studies of the Mackenzie Delta region. In fact his name has been so often identified with pingos that for many of us the association is a Pavlovian reaction. Some pingos rise and fall as if breathing, and in truth he has brought them to life for us, as in his paper on "Pingos of the Tuktoyaktuk Peninsula area, Northwest Territories," which we are honoring today.

Ross' referred publications numbering some 135, at last count, are gems of carefully presented information. Almost all his reports, including his shorter ones, involve satisfying numbers and illuminating quantitative relationships as well as

verbal descriptions. Some of us have often urged him to codify his unique knowledge in a comprehensive volume but he has been too busy opening new vistas to worry about the old.

Ross' advice has been of inestimable help to Canadian Government agencies concerned with environmental problems and offshore oil development in the Beaufort Sea. In the United States he is a most valued member of the PRB Permafrost Committee of the National Research Council.

Last year Ross reached the statutory retirement age for teaching at the University of British Columbia. In his case this means new laboratory facilities to keep him from escaping, more time for research and, I fear, more time for practical jokes of which I now expect to become an innocent victim. Be that as it may, to prove that I am not exaggerating Ross' stature, here is an abbreviated list of awards he has already received:

Honorary doctorates from the University of Ottawa and University of Waterloo

Vice-President of the International Geographical Union

The Canadian Centennial Medal

The Canadian Silver Jubilee Medal

The Massey Medal of the Royal Canadian Geographical Society

The Miller Medal of the Royal Society of Canada, and most recently, The Order of Canada, awarded by the Governor General of Canada last month

In fact Ross has received almost every honor that Canada can bestow on a distinguished geoscientist of international reknown.

It is most fitting that the Geological Society of America now join in recognizing Ross Mackay by presenting to him the highest honor the Quaternary Geology and Geomorphology Division can bestow--the Kirk Bryan Award.

MEETINGS IN 1982

May 17-19 . . . . .

Quaternary history of the Lake Agassiz region symposium, Geological Association of Canada

August 22-28. . . . .

International Association of Sedimentologists 11th International Congress on Sedimentology, McMaster University, Hamilton, Canada

PAST CHAIRMEN OF THE DIVISION

1982	T. L. Pewe	1968	W. D. Thornbury
1981	M. Morisawa	1967	H. E. Wright, Jr.
1980	S. A. Schumm	1966	R. F. Black
1979	W. B. Bull	1965	G. M. Richmond
1978	A. L. Bloom	1964	A. L. Washburn
1977	W. C. Bradley	1963	L. B. Leopold
1976	L. H. Lattman	1962	J. G. Fyles
1975	R. L. Nichols	1961	J. T. Hack
1974	D. R. Crandell	1960	C. S. Denny
1973	H. E. Malde	1959	G. W. White
1972	R. F. Flint	1958	G. W. White
1971	R. P. Goldthwait	1957	J. H. Mackin
1970	D. M. Hopkins	1956	J. H. Mackin
1969	A. D. Howard	1955	E. Blackwelder

## Quaternary History of the Lake Agassiz Region

The Geological Association of Canada symposium on the "Quaternary History of the Lake Agassiz Region" will be held May 17-19, 1982. Several additions have been made to the program since it was initially announced. A special pre-meeting symposium, "Quaternary Stratigraphy of Canada," prepared by the Canadian Work Group for "Quaternary Glaciations in the Northern Hemisphere" (IGCP Project 24), will be held on May 16th. Papers will summarize the regional Quaternary stratigraphy across Canada. In addition to regular sessions on Quaternary geology, stratigraphy, paleontology, and sedimentology, there will be a Special Session on Geological Limnology. Two Quaternary field trips will be led, one before the meeting and one after.

A pre-meeting field trip (May 15) led by E. Nielsen and G. Matile will examine "till stratigraphy and proglacial lacustrine deposits in the Winnipeg area" (maximum--40 persons; cost--\$35, includes transportation, lunch, and guidebook). A post-meeting trip (May 20-23) led by E. Nielsen, L. Dredge, and R. W. Klassen will examine "Quaternary stratigraphy and geomorphology of a part of the Lower Nelson River" (maximum--25 persons; cost--\$295, includes airfare and ground transportation, room and board, and guidebook).

For further details contact James T. Teller (Department of Earth Sciences, University of Manitoba)

or request the Second Circular from Mrs. M. Gray, Department of Earth Sciences, University of Manitoba R3T 2N2.

## Eleventh International Congress on Sedimentology

The Eleventh International Congress on Sedimentology will be held at McMaster University, Hamilton, Canada, August 22-28, 1982. The program includes nine Quaternary-related sessions: Theme #8, Geomorphology of depositional landforms, S. B. McCann, chairman; Symposium #14, Rudites formed by unidirectional flow, E. H. Koster, chairman; Symposium #16, Eolian sediments and processes, M. E. Brookfield, chairman; Symposium #18, Sedimentation in a cold (non-glacial) climate, H. E. French, chairman; Symposium #19, Glacial marine sedimentation, G. H. Eisbacher, chairman; Symposium #20, Behaviour of glaciers as deduced from till facies, N. W. Rutter, chairman; Symposium #26, Sedimentology of fiords, J. Syvitski, chairman; Symposium #35, Geochronology of recent deposits, J. A. Robbins, chairman; Symposium #38, Archeological sedimentology, B. G. Gladfelter, chairman.

You are invited to communicate with session chairman for further information. For a copy of the Congress Circular, write to: IAS Congress 1982, Department of Geology, McMaster University, Hamilton, Ontario L8S 4M1.

## PAST PANELS

<b>1957-59</b> S. Judson J. C. Frye W. D. Thornbury J. T. Hack A. N. Strahler A. D. Howard	<b>1964-65</b> S. A. Schumm A. N. Strahler S. E. White *W. C. Bradley J. H. Mackin D. R. Crandell D. F. Eschman	<b>1969-70 (Jan.)</b> W. C. Bradley A. L. Bloom R. L. Shreve D. R. Crandell S. C. Porter A. L. Washburn	<b>1973-74</b> J. T. Andrews W. B. Bull J. H. Hartshorn P. B. Birkeland L. Clayton M. Morisawa	<b>1978-79</b> J. B. Benedict W. R. Farrand S. E. White J. E. Armstrong P. W. Birkeland K. L. Pierce
<b>1959-61</b> L. B. Leopold J. P. Miller G. M. Richmond R. P. Sharp M. G. Wolman J. M. Zumberge	<b>1965-66</b> A. L. Bloom J. T. Hack C. A. Wahrhaftig S. A. Schumm A. N. Strahler S. E. White	<b>1969-70 (Nov.)</b> P. W. Birkeland H. W. Borns, Jr. D. J. Easterbrook W. C. Bradley A. L. Bloom R. L. Shreve	<b>1974-75</b> J. T. Andrews W. B. Bull J. H. Hartshorn W. H. Johnson K. L. Pierce J. W. Hawley	<b>1979-80</b> J. E. Armstrong P. W. Birkeland K. L. Pierce G. M. Ashley R. P. Goldthwait R. J. Janda
<b>1961-62</b> R. F. Black R. P. Goldthwait H. E. Wright, Jr. C. S. Denny R. L. Nichols A. N. Strahler	<b>1966-67</b> W. C. Bradley D. F. Eschman E. H. Muller A. L. Bloom J. T. Hack C. A. Wahrhaftig	<b>1970-71</b> P. W. Birkeland H. W. Borns, Jr. *D. J. Easterbrook M. Morisawa J. H. Hartshorn R. V. Ruhe S. E. White	<b>1975-76</b> W. H. Johnson K. L. Pierce J. W. Hawley P. W. Birkeland E. H. Muller S. C. Porter	<b>1980-81</b> G. M. Ashley R. P. Goldthwait R. J. Janda E. B. Evenson A. F. Schneider G. I. Smith
<b>1962-63</b> E. H. Muller R. R. Shaffer C. A. Wahrhaftig R. F. Black R. P. Goldthwait H. E. Wright, Jr.	<b>1967-68</b> J. H. Hartshorn T. L. Pewe M. G. Wolman W. C. Bradley D. F. Eschman E. H. Muller	<b>1971-72</b> J. H. Hartshorn R. V. Ruhe S. E. White R. R. Curry R. J. Janda S. C. Porter	<b>1976-77</b> P. W. Birkeland E. H. Muller S. C. Porter J. T. Andrews V. R. Baker M. Morisawa	<b>1981-82</b> E. B. Evenson A. F. Schneider G. I. Smith R. F. Black J. H. Hartshorn N. W. Rutter
<b>1963-64</b> W. C. Bradley D. R. Crandell D. F. Eschman E. H. Muller P. R. Shaffer C. A. Wahrhaftig	<b>1968-69</b> D. R. Crandell S. C. Porter A. L. Washburn J. H. Hartshorn T. L. Pewe M. G. Wolman	<b>1972-73</b> P. W. Birkeland L. Clayton M. Morisawa R. R. Curry R. J. Janda S. C. Porter	<b>1977-78</b> J. T. Andrews V. R. Baker M. Morisawa J. B. Benedict W. R. Farrand S. E. White	

\*resigned to accept office