



Quaternary Geologist and Geomorphologist

NEWSLETTER OF THE QUATERNARY GEOLOGY AND GEOMORPHOLOGY DIVISION

July 1977

SEATTLE MEETING

The GSA Annual Meeting in Seattle, November 7-9, will include several features of interest to Division members.

Symposia: Quaternary tephrochronology, organized by Stephen C. Porter, and

Special Sessions: Pleistocene geochronology, organized by Charles Matsch.

Field Trips: Quaternary geology of the Fraser Lowland, British Columbia; Leader - J. A. Armstrong (pre-meeting, November 5, 6).

Quaternary geology of the Columbia Plateau, Washington; Leaders - D. J. Easterbrook, V. Baker, R. Waitt (post-meeting, November 10, 11).

Hawaii (combined geology and vacation-type trip); Organizer, D. J. Easterbrook (post-meeting, November 10-17).

Geologic hazards in Seattle; Leaders - D. Tubbs, T. Dunne (post-meeting, November 10).

For additional information, see the GSA Annual Meeting Second Announcement.

There will also be two half-day technical sessions on Quaternary Geology and Geomorphology. The Division luncheon and business meeting is scheduled for Tuesday, November 8. The Kirk Bryan Award will be made at that time. A special effort is being made this year to minimize the cost of the luncheon in hopes of encouraging more of the members of the Division to attend.

KIRK BRYAN AWARD

Nominations from members of the Division for the best "published paper of distinction advancing the science of geomorphology or some related field, such as Pleistocene geology" have been evaluated by the Panel and the winner for 1977 is Michael Church for his paper "Baffin Island Sandurs: a study of arctic fluvial processes", Geological Survey of Canada Bulletin 216, 138 p. Presentation of the award will be made at the Division business meeting and luncheon, Tuesday, November 8, 1977. A check for \$500 will be given with the certificate.

MACKIN GRANT

The Management Board of the Division has selected a research proposal by Daniel R. Muhs, University of Colorado, as recipient of the J. Hoover Mackin Grant for 1977. The objective of Muhs' research is to study changes in soil development on terraces of San Clemente Island, California.

SOIL-GEOMORPHOLOGY FIELD CONFERENCE

The Soil Genesis, Morphology and Classification Division of the Soil Science Society of America is sponsoring a 2½ day tour on November 11-13, 1977 to examine soil-geomorphic-geologic relationships in the eastern San Joaquin Valley, California. The field conference is jointly sponsored by the Geological Society of America - SSSA Inter-Disciplinary Committee and will be held on the weekend between National Meetings of the GSA and SSA, respectively, in Seattle and Los Angeles. Tour leaders include Gordon Huntington, Professor of Soils, University of California-Davis, and Denis Marchand, Jennifer Harden and Gene Gegg, U. S. Geological Survey-Menlo Park. The tour headquarters will be in Modesto, California. A pre-tour orientation is being planned for Thursday evening, November 10. Full-day tours on November 11 and 12 will end in Modesto, and a half-day tour on Sunday, November 13, will end in Merced, where there are airline connections to Los Angeles and San Francisco. Approximate cost of the tour, including tour guidebook, bus transportation and two lunches is \$40.00. The trip will be limited to 80 persons. For registration information contact, Michael J. Singer, LAWR: Soils and Plant Nutrition Section, University of California, Davis, CA 95616 prior to September 1, 1977.

SYMPOSIUM ON THE ENGINEERING BEHAVIOR OF GLACIAL MATERIALS

Copies of the Proceedings of the Symposium on "The Engineering Properties of Glacial Materials", held by The Midland Soil Mechanics and Foundation Engineering Society in April, 1975, are now available for purchase, price 9.00 including postage and packing.

The Symposium covered geological processes, soil properties including fabric, measurement of deformation moduli, glacial soils as construction materials, and a review of site investigation problems and techniques. Further information may be obtained from The Honorary Secretary, The Midland Soil Mechanics and Foundation Engineering Society, Department of Civil Engineering, The University, Birmingham B15 2TT, England.

Papers presented include: The Formation and Distribution of Glacial Materials

- E. Derbyshire, *The distribution of glacial soils in Great Britain*
- P. G. Fookes, D. L. Gordon and I. E. Higginbottom, *Glacial landforms, their deposits and engineering characteristics*
- G. S. Boulton, *The genesis of glacial tills, a framework for geo-technical interpretation*
- W. B. Whalley, *Abnormally steep slopes on moraines constructed by valley glaciers*
- R. F. Legget, *Review of Interdisciplinary Symposium on Glacial Till, Ottawa, February, 1975*

The Properties and Soil Structure of Glacial Materials

- G. L. Roderick, *Properties of some glacial soils in Wisconsin*
- C. F. Moon, *The failure mechanism of quick clay soils: a model approach*
- A. McGown, W. F. Anderson and A. M. Radwan, *Geotechnical properties of the tills in West Central Scotland*
- P. G. Fookes, L. W. Hinch, M. A. Huxley and N. E. Simons, *Some soil properties in glacial terrain -- the Taff Valley, South Wales*
- M. A. Stroud and F. G. Butler, *The standard penetration test and the engineering properties of glacial materials*

Sampling and Testing Glacial Materials

- D. G. McKinlay, A. McGown, A. M. Radwan and D. Hossain, *Representative sampling and testing in fissured lodgement tills*
- G. A. Faillace and M. L. Silver, *Effect of sampling on the dynamic stress strain properties of till*
- A. Marsland, *In-situ and laboratory tests on glacial clays at Redcar*
- W. F. Anderson and D. G. McKinlay, *Tests to find the modulus of deformation of till*

Design and Construction in Glacial Materials

- L. Threadgold and R. C. Weeks, *Deep laminated clay deposits in the Skipton area*
- P. R. Vaughan and H. J. Walbancke, *The stability of cut and fill slopes in boulder clay*
- J. E. Cocksedge and D. W. Hight, *Some geotechnical aspects of road design and construction in tills*
- D. H. Bennett, *Problems of excavation in permeable drift*
- O. M. Bevan and D. B. Parkes, *Tunnelling in glacial materials in the British Isles*
