



Quaternary Geologist and Geomorphologist

NEWSLETTER OF THE QUATERNARY GEOLOGY AND GEOMORPHOLOGY DIVISION

Volume 35, Number 2

September 1995

RESULTS OF 1995 DIVISION ELECTION

GSA Headquarters mailed 874 ballots to members of the Division, of which 243 valid ballots were returned. The tally of votes was checked and rechecked; no write-in comments were received. Division officers and Panel members elected for 1995-96 are:

NEW OFFICERS for 1995-1996:

Chair	William L. Graf
First Vice-Chair	Karen L. Prestegaard
Second Vice-Chair	Leslie D. McFadden
Secretary	J. Steven Kite

PANEL MEMBERS:

New (1995-1997)	Peter U. Clark
	Lisa L. Ely
	Dorothy J. Merritts

Currently serving the division:

OFFICERS for 1994-1995:

Chair	Steven M. Colman
First Vice-Chair	William L. Graf
Second Vice-Chair	Karen L. Prestegaard
Secretary	J. Steven Kite

PANEL MEMBERS

Retiring (1993-1995)	Carolyn G. Olson
Waite Ostercamp	
James T. Teller	

Continuing (1994-1996)	Michael N. Machette
	Ellen A. Cowan
	Robert S. Anderson

NOMINATIONS OF 1996-98 PANEL MEMBERS

Clip out and mail this ballot before December 1, 1995 to:

J. Steven Kite, Dept of Geology & Geography, Box 6300, West Virginia University, Morgantown, WV 26506.

Nominations accepted by e-mail, too! e-mail: kite@wvgeo.wvnet.edu

All members except Division officers, present or retiring panel members, and Student Associates are eligible for nomination to the Panel. The six names receiving the highest number of nominations will appear on the annual ballot. Each voting affiliate of the Division (Members and Fellows only) may nominate as many as three persons.

(1) _____

(2) _____

(3) _____

Name of Nominator

MESSAGE FROM THE DIVISION CHAIR

It has been an unusual experience, chairing a division of the Geological Society of America from Switzerland. I want to thank those that made this possible, especially Parker Calkin, Past Chair, and Steve Kite, Division Secretary.

As I mentioned in the last Newsletter, I am impressed by the high level of concern about global change in the international community, especially in the scientific community. This concern should directly benefit Quaternary geologists and geomorphologists.

First, although much of the focus is naturally on subjects such as climatology and oceanography, people are becoming increasingly aware of the need to understand the evolution of earth systems. Evolution implies the past, and the past implies geological sciences.

The organization for which I am working, the Past Global Changes (PAGES) project of the IGBP, is inherently geological in nature.

Second, whereas much attention is deservedly given to climate-simulation models because of their ability to forecast, the limitations of those models are becoming increasingly apparent. The record of the past shows that climate is virtually never in equilibrium, that sudden and unexpected events occur, and that earth systems may have internal, non-linear properties (such as "mode switches" in oceanic circulation). Finally, as important as it is to reconstruct climate changes of the past and to forecast them for the future, ultimately, it is the impact of those changes that are important to humanity. Impacts of climate change on earth systems are clearly the domain of Quaternary geologists and geomorphologists.

Despite the increasing importance of our science, we live in a sometimes disturbing world of politics and economic troubles, in which rationality is not always at the forefront. Whether science and reason concerning global change will prevail against politics and short-term economics remains to be seen.

- Steve Colman

HOW TO HAVE INPUT INTO YOUR DIVISION

1. Submit nominations for Division offices and awards.
 2. Submit suggestions, gripes, etc., for consideration by the Division Management Board.
 3. Submit contributions to the Division Newsletter.
- Correspondence to the Division may be sent to our Division Secretary:

J. Steven Kite
Dept of Geology & Geography
P.O. Box 6300
West Virginia University
Morgantown, WV 26506-6300
Telephone: (304) 293-5606
Telefax: (304) 293-6522
e-mail: kite@wvugeo.wvnet.edu

Or you may contact the new Division Chair:

William L. Graf
Department of Geography
Arizona State University
Box 870104
Tempe AZ 85287-0104
e-mail: atwlg@asuvm.inre.asu.edu

Until the New Orleans GSA Meeting, the Chair will be:

Steven M. Colman
IGBP/PAGES
Barenplatz 2
Bern, Switzerland CH-3011
Telephone: 41-31-312-3133
Telefax: 41-31-312-3168
Phonemail U.S.A.: (508)457-2341
e-mail: pages@ubeclu.unibe.ch

Newsletters are mailed in February and August of each year. Members are encouraged to use their Division newsletter to communicate with other members. Deadline is January 15 for the February Newsletter and July 15 for the August Newsletter. Please send information to the Newsletter Editor at the following address:

Rich Whittecar
Geological Sciences
Old Dominion University
Norfolk VA 23529
(804)683-5197 fax:(804)683-5194
e-mail: grw100f@giraffe.tech.odu.edu

HELP ! : PHOTOGRAPHS NEEDED

Make your latest field trip leader or a colleague famous! Send in a photograph for the next newsletter. - Rich Whittecar

WINNERS: MACKIN AND HOWARD GRANTS

The **Arthur D. Howard Award** is for outstanding student research proposed by a M.S. candidate. Selected from seven nominees, the 1995 Howard Award winner is **Adam Light**, University of Colorado, who is studying "Amino Acid Paleothermometry: A north/south transect of the Lake Bonneville Basin, Utah, since the late glacial maximum."

The **J. Hoover Mackin Award** is for outstanding student research proposed by a Ph.D. candidate. This year five students were nominated. The 1995 Mackin Award will be split by two students: **Michael Kaplan**, University of Colorado, "Late Quaternary ice-sheet dynamics, southeast Baffin Island"; and **Joseph Licciardi**, Oregon State University, "Chronology of high-frequency (103 yr) Late Pleistocene climate change, western North America."

MACKIN AND HOWARD GRANTS: APPLICATIONS FOR 1996 AWARDS

Awards for student research in geomorphology or Quaternary geology are given from both the J. Hoover Mackin fund and the Arthur D. Howard fund. The Howard fund was established by a bequest from the Arthur D. Howard family estate and is administered by the GSA Foundation. The deadline for receipt of applications is February 15, 1996. Both M.S. (or M.A.) and Ph.D. candidates are eligible.

Winners will be selected by April 15, 1996. Application forms are available from the Division Secretary: J. Steven Kite, Department of Geology & Geography, P.O. Box 6300, West Virginia University, Morgantown, WV 26506-6300.

CONTRIBUTE TO THE MACKIN GRANT AND HOWARD GRANT FUND

The fund that supports the Mackin Grant and Howard Grant is administered by the GSA Foundation. You can contribute to the fund when you renew your GSA membership or by designating the Mackin Grant or Howard Grant when you contribute to the GSA Foundation through the Century Challenge or Geostar. The hope is to enlarge the fund's principal so that the amount awarded annually can be increased. Please give generously so that the Division will be able to better support deserving graduate students.

1995 DISTINGUISHED CAREER AWARD WINNER DAVID HOPKINS

The Quaternary Geology and Geomorphology Division is pleased to announce that Dr. David Hopkins of University of Alaska-Fairbanks is the 1995 recipient of the Distinguished Career Award. The Award will be presented to Dave at the Annual QG&G Awards and Business Meeting at New Orleans on Tuesday, November 7, 1995, 7:15-9:00 pm. The following comments are distilled from letters of nomination by Julie Brigham-Grette, Tom Hamilton, and Gail Ashley.

Dave is probably the one person most responsible for developing and popularizing the geologic history and paleogeographic significance of the Bering Land Bridge. He was instrumental also in the development of paleomagnetic time scales, early amino acid geochronology labs, and our understanding of the Tertiary evolution of plants. A trailblazing field geologist, prolific author, effective administrator, editor of seminal volumes, and successful coordinator of multinational and multidisciplinary projects, Dave is regarded warmly for his role as mentor to numerous students and professionals in Quaternary geology, geomorphology, and archeology.

NOMINATIONS FOR 1996 DISTINGUISHED CAREER AWARD

The Distinguished Career Award was established in 1985 to recognize Quaternary geologists and geomorphologists who have demonstrated excellence in their contributions to science. The recipient need not be a member of the Geological Society of America or the QG&G Division. Nominations will be accepted at any time during the year, but the deadline is April 15, 1996. Nominations should be sent to the Division Secretary, Steve Kite, and

require: (1) a supporting letter of nomination documenting the contributions of the nominee, (2) three letters or signatures of additional members supporting the nomination, (3) a resumé of the candidate (such as a photocopy from American Men and Women of Science), along with a bibliography of the nominee's most significant papers. The Division Chair will appoint a committee to oversee the collection and completion of award nominations. The names of unsuccessful candidates proposed for the award will remain open without renomination for the following three years. Further consideration after this period will require renomination.

WINNER: 1995 KIRK BRYAN AWARD

The winner of the 1995 Kirk Bryan Award is James E. O'Connor of U.S. Geological Survey for his paper, Hydrology, hydraulics and geomorphology of the Bonneville Flood, published in the 1993 Geological Society of America Special Paper 274, 90 pg. The award will be presented at the Annual QG&G Division's Awards and Business Meeting at GSA-New Orleans on Tuesday, November 7, 1995, 7:15-9:00 p.m. The following comments are paraphrased from the letter of nomination by Vic Baker.

This paper is the most complete and consistent scientific treatment to date of an ancient high-energy fluvial process event. It is exceptionally innovative in the use of hydraulic flow modeling to estimate flow parameters along the 1100-km flow route from Lake

Bonneville to the Channeled Scabland. The study of large boulder deposition provides an important new approach to paleohydraulic inference from ancient boulder deposits of high-energy floods. The study is remarkable for its example of thoroughness, its creative insights into ancient processes, and its careful attention to field evidence.

NOMINATIONS FOR THE KIRK BRYAN AWARD FOR 1996

Nominations for the Kirk Bryan Award for 1996 will be accepted until December 1, 1995. The Kirk Bryan Award is given for a paper or book published within the past five years. The work may be single or multi-authored. Nominations are made by writing a letter that identifies the work and provides a statement about its significance. Send nominations to the Division Secretary: J. Steven Kite, Department of Geology & Geography, P.O. Box 6300, West Virginia University, Morgantown, WV 26506-6300.

RECENT RECIPIENTS OF THE KIRK BRYAN AWARD: 1990-1995

- | | |
|------|--|
| 1990 | Arthur S. Dyke and Victor K. Prest (Geological Survey of Canada), Late Wisconsinan and Holocene history of the Laurentide ice sheet: <i>Géographie Physique et Quaternaire</i> , v. 41, no. 2, p. 237-263, 1987. |
| 1991 | Milan J. Pavich (U.S. Geological Survey), Processes and rates of saprolite production and erosion on a foliated granitic rock of the Virginia Piedmont, in S.M. Colman and D.P. Dethier, eds., Rates of chemical weathering of rocks and minerals: New York, Academic Press, Inc., p. 552-590, 1986. |

- 1992 R. Dale Guthrie (University of Alaska), Frozen fauna of the Mammoth Steppe: The Story of Blue Babe: Chicago, University of Chicago Press, 323 p., 1990.
- 1993 William B. Bull (University of Arizona), Geomorphic responses to climate change, Oxford University Press, 326 p., 1991.
- 1994 Arthur N. Palmer (State University of New York, Oneonta) Origin and morphology of limestone caves, Geological Society of America Bulletin, v. 103, p. 1-21, 1991.

A complete list of Awardees honored by the Division may be obtained from the Division Secretary or on the Division's WWW homepage, soon to be accessible through the Geological Society of America at <http://www.aescon.com/geosociety/index.html>.

THANKS TO QG&G MEMBERS WHO HELPED THE DIVISION

The Management Board, on behalf of the membership, thanks those members who generously donated their time and energy to the Division during the past year.

- ✓ **Division Panel:** Carolyn Olson, James Teller, Waite Osterkamp, Michael Machette, Ellen Cowan, and Robert Anderson
- ✓ **Committee on Long-Range Planning:** Steve Wells (chair), Rich Madole and Vic Baker
- ✓ **Committee on Environment:** Duncan Foley, Richard Kesel, and Parker Calkin
- ✓ **Nominations Committee:** Mike Machette (chair), Jim Teller, and Ellen Wohl
- ✓ **Newsletter Editors:** Richard Waitt, Rich Whittecar

WINNER: 1995 ROBERT K. FAHNESTOCK MEMORIAL RESEARCH AWARD

The Robert K. Fahnestock Memorial Research Award honors the memory of Ken Fahnestock who was a member of the Committee on Research Grants. It is given annually to the student who submits the most outstanding research proposal to the Geological Society of America in the field of sediment transport or related aspects of fluvial geomorphology. The recipient for 1995: **Stephen Drew Thorne** at Florida State University for "Transverse Bars: their origin and influence on flow structure, sediment transport and channel evolution in a boulder-bed stream."

WINNER: 1995 GLADYS W. COLE MEMORIAL RESEARCH AWARD

The Gladys W. Cole Memorial Research Award provides research support for investigations of the geomorphology of semi-arid and arid terrains in the U.S. and Mexico. In past years, it has been given annually to a GSA Fellow between the ages of 35 and 60 who has published one or more significant papers on geomorphology and who proposed new research. Now, both GSA Members and GSA Fellows are eligible for the Cole Research Award. **Robert S. Anderson** of University of California, Santa Cruz received \$9000 as the Gladys W. Cole Memorial Research Award for 1995.

Robert's project is titled "Validation of new Cosmogenic Radionuclide Dating Strategy on the Wind River Terraces, Wyoming."

GLADYS W. COLE MEMORIAL RESEARCH AWARD ROBERT K. FAHNESTOCK MEMORIAL RESEARCH AWARD APPLICATIONS FOR 1996

The application forms are available from the Research Grants Administrator, Geological Society of America, P.O. Box 9140, Boulder,

CO 80301; phone (303) 447-2020. **Applications must be post-marked by February 15, 1996**, to be eligible; the award is made in April.

1995 ANNUAL MEETING AT NEW ORLEANS KEY EVENTS: November 6-9

The health and vitality of the Quaternary Geology and Geomorphology Division is partly measured by the number and diversity of discipline, poster, theme and symposia sessions at annual meetings. The agenda for the annual GSA meeting in New Orleans is rich and full. Thus some division-sponsored sessions such as theme and posters compete in time, conflicts that are as unavoidable as the division's endeavors are large. Division-sponsored activities are highlighted below:

Sunday, November 5:

QG&G G.K. Gilbert Short Course: Geomorphic Applications of In Situ Produced Cosmogenic Isotopes

Monday, November 6:

a.m.

Quaternary Geology/Geomorphology Posters: All topics
Division Management Board Meeting: Hyatt Rosedown Room
p.m.
GSA Keynote Symposium: The Mississippi River - Control and Consequences

Tuesday, November 7:

a.m.

QG&G I: Glaciation and Quaternary Climatic Change at Mid-Latitudes

p.m.

QG&G II: Polar Glaciation and Fluvial Geomorphology

ALL INVITED: Tuesday Evening, November 7

7:15 P.M. QG&G Division Business Meeting and Awards
9:00 P.M. Reception (NOTICE: a charge for beer this year!)

Wednesday, October 26:

a.m.

QG&G Symposium (#7): Quaternary Geologic Framework and Process of Coastal Land Loss in Louisiana

p.m.

Theme Session 14: Quaternary Geologic Framework and Process of Coastal Land Loss

QG&G III: Paleoenvironments, basins and dating, middle and southern U.S.

Thursday, October 27:

a.m.

QG&G IV: Neotectonics

p.m.

QG&G V: Coasts and Continental Shelves

Other Meetings

Sept 15-17, 1995: **British Geomorphological Research Group Annual Conference**. Cambridge, England. "Terrain Monitoring, Modelling, and Analysis." Contact: Stuart Lane, BGRG Conference, Dept. Geography, Univ. of Cambridge, Downing Place, Cambridge, CB2 3EN, U.K. Tel:0223-3330241 email: snl10@phx.cam.ac.uk

Oct 6-7, 1995: **26th Binghamton Geomorphology Symposium, Charlottesville, Virginia**. "Biogeomorphology - Terrestrial and freshwater aquatic systems." Contact: Dr. Cliff Hupp, USGS, 430 National Center, Reston VA (703)648-5207 email: crhupp@wrddmail.er.usgs.gov.

Oct 10-14, 1995: **American Association of Stratigraphic Palynologists**. Ottawa, Ontario. Special sessions on Quaternary Palynology; Dinoflagellates and Acritarchs of Mesozoic-Cenozoic Oceans and Marginal Seas; Selected papers from Palynology: Principles and Applications. Contact: S.A. Jarzen, AASP 28, Canadian Museum of Nature, Box 3443, Station D, Ottawa, Canada (613)954-0355 email: sajarzen@mus-nature.c

Oct 29- Nov 3, 1995: **Soil Science Society of America Annual Meeting, St. Louis, Mo.** Contact: SSSA, 667 S. Segeo Rd., Madison, WI 53711 (608) 273-8080.

Dec 11-15, 1995: **American Geophysical Union, San Francisco, California**. Special sessions include many topics in paleoclimatology; climate change; hydrology; glaciology; ocean sciences; geomorphology; mechanics of earth surface processes (honoring R.L. Shreve); glaciers and ice sheets (honoring M. Meier). Abstracts due Sept 6. Contact: AGU, 2000 Florida Ave, Washington, DC (202)462-6900.

Apr 9-13, 1996: **Association of American Geographers Annual Meeting, Charlotte, N.C.** Special sessions include Quaternary soils geography; soil geomorphology; weathering and erosion; dryland geomorphology; coastal plain rivers; fluvial geomorphology. Contact: AAG, 1710 Sixteenth St. NW, Washington DC 20009; (202)234-1450.

Apr 17-19, 1996: **Workshop on Glaciation and Hydrogeology, Stockholm, Sweden**. Nordic Nuclear Safety Research. Contact: Louisa King-Clayton, Intera Information Technologies Ltd., 47 Burton Street, Melton Mowbray. Leics., LE13 IAF, U.K. email:lkc@intera.co.uk

Apr 22-26, 1996: **8th International Conference on Luminescence and ESR Dating**. Canberra, Australia. Contact: Secretary General, International Glaciological Society, Lensfield Road, Cambridge, CB2 1ER, U.K.

May 20-22, 1996: **American Quaternary Association, 14th Biennial Meeting**. Flagstaff, Arizona. "Global Warming: Interglacials, Interstadials, Climatic Optima, and Other Events." 14 pre- and post- symposium field trips planned. Contact: Jim Mead, Dept. Geology, Northern Arizona University, Flagstaff AZ (520)523-9220 email: jim@vishnu.glg.nau.edu.

Aug 5-10, 1996: **28th International Geographical Congress**. The Hague, Netherlands. Contact: Congress Secretariate 28th IGC,

Faculteit Ruimtelijke Wetenschappen Universiteit Utrecht, Postbus 80.155, 3508 TC Utrecht, The Netherlands email: r.vanderlinden@frw.ruu.nl.

Sept 27-29, 1996: **27th Binghamton Geomorphology Symposium, Champaign, Illinois**. "Scientific Nature of Geomorphology." Organizers: Bruce Rhoads and Colin Thorn.

Oct 28-31, 1996: **GSA Annual Meeting, Denver, Colorado**.

Aug 28-Sept 3, 1997: **4th International Conference on Geomorphology**. Bologna, Italy. Second announcement will be sent to those who request information before Sept 30, 1996. Contact: I.C.G., Planning Congress s.r.l., Via Crociali 2, I-40138 Bologna, Italy email: forti@geomin.unibo.it. **28th Binghamton Geomorphology Symposium, "Engineering Geomorphology,"** will be held at the 4th ICG in Bologna. Contact: Rick Giardino.

TRAVEL GRANT PROGRAM FOR 30TH IGC, BEIJING, CHINA AUGUST 4-14, 1996

Applicants must submit copies of abstracts sent for inclusion in the IGC program; must have a birth date after Aug 31, 1956; and must be a resident or citizen of the United States. Grants are for economy airfare to China. For official application forms, contact the Grants Administrator, GSA headquarters, 3300 Penrose Place, BOX 9140, Boulder CO 80301. Applications must be supported by two letters from current or recent supervisors; students may use faculty members. Qualifying letters of support and applications must be postmarked no later than Sept 15, 1995.

JONATHAN O. DAVIS SCHOLARSHIP QUATERNARY SCIENCES CENTER OF THE DESERT RESEARCH INSTITUTE

This scholarship is a memorial to Jonathan O. Davis, geologist and geoarchaeologist. Established by family and friends of Jonathan this scholarship will be given annually to support the field research of a graduate student working on the Quaternary geology of the Great Basin or surrounding areas. The grant is for \$1000 or more. The scholarship, administered by the Quaternary Sciences Center of the Desert Research Institute, is open to graduate students enrolled in a M.S. or Ph.D. program at any U.S. university. Quaternary geology as used here encompasses a wide range of topics normally considered as part of Quaternary science. The research, however, must have a substantial geologic component or demonstrate a strong reliance on geologic techniques.

Applications should include (1) a current resume or vita, (2) a two-page (single-spaced) description of the thesis/dissertation research which also clearly documents the geologic orientation and research significance, and (3) a letter of recommendation from the thesis/dissertation supervisor that emphasizes the student's research ability and potential as a Quaternary scientist. Applications must be received by February 1, 1996, so that the scholarship can be utilized in the subsequent summer. Applications should be addressed to: Executive Director, Quaternary Sciences Center, Desert Research Institute, P.O. Box 60220, Reno, NV 89506.

If you wish to help the endowment grow, contributions can be sent to the above address. Checks should be made out to the Board of Regents-DRI. Please indicate on the check or in a separate note that the donation is for the Jonathan O. Davis Scholarship Fund.

RESEARCH GRANTS FOR ISOTOPIC ANALYSES GEOCHRON LABORATORIES

Geochron Laboratories, a division of Krueger Enterprises, Inc., annually awards a series of research grants to graduate students requiring interesting or new applications of isotopic analyses. The awards consist of analytical services to be performed free of charge to the winner in each category. For the past several years awards have been offered in K-Ar dating, C-14 dating, and stable isotope ratio analyses (SIRA), SIRA in dietary studies, and SIRA of fluid inclusions in minerals. The awards are offered by Geochron Labs to encourage the application of isotopic analytical techniques to solve original and significant problems. The deadline for applications is May 1, 1996. Early application is suggested to assist with prompt evaluation and notification of winners. For Research Award Program Guidelines and official rules, call 617-876-3691, fax 617-661-0148 or write 711 Concord Ave, Cambridge, MA 02138.

STUDENT RESEARCH AND TRAVEL GRANTS SOUTHEASTERN GSA MEMBERS

The SEGSA will again support travel and research grants for undergraduate and graduate students who are members of GSA. Deadline for travel grants to GSA in New Orleans is October 2, 1995; for student research grants, February 15, 1996; for travel grants to Jackson MI, March 1996. For more information, contact Dr. Harold Stowell, Dept. Geology, University of Alabama, Tuscaloosa AL 35487 (205)348-5089 email: hstowell@geology.geo.ua.edu.

TROPICAL GEOMORPHOLOGY NEWSLETTER

The Tropical Geomorphology Newsletter is edited by Avijit Gupta and P.P. Wong. To receive a copy, contact the Editors at the Department of Geography, National University of Singapore, Singapore 0511.

QUATERNARY GEOLOGY AND GEOMORPHOLOGY ON THE WORLD WIDE WEB LISTSERVERS

Geomorphology Listserv: All messages sent to the GEOMORPHLIST members are screened by the moderator, Jeff Lee. To join GEOMORPHLIST, send a message to Jeff at: adgjl@ttacs.ttu.edu. For the directory please provide the following information: your name, mailing address, phone and fax numbers, e-mail address, and a few keywords to specify your interests in geomorphology.

Quaternary Listserv: A listserv for all interested in Quaternary research, particularly but not exclusively in Canada, is established through the Canadian Quaternary Association. Many items of interest to CANQUA members appear on the list. But anyone, CANQUA or otherwise, can subscribe. To subscribe send to the address listserv@morgan.ucs.mun.ca the following message: subscribe quaternary your name (e.g. subscribe quaternary Mike Mammoth). The subject category should be left blank. You should receive acknowledgement of your subscription. To sign off the list send this message to the same address: signoff quaternary. Messages to the list should be sent to: quaternary@morgan.ucs.mun.ca. The listowner is Dave Liverman, Newfoundland Geological Survey, Department of Mines and Energy, P.O. Box 8700, St. John's, Newfoundland, AqB 4J6 email: dgl@zeppo.geosurv.gov.nf.ca.

Palynology Listserv: To join a listserv for exchange of news and information about Palynology and Pollination Biology please send e-mail message to: stserve@uoguelph.ca with the message: subscribe polpal-l your-real-name (e.g. subscribe polpal-l Mike Mammoth). The subject category should be left blank. To post a message to this list, please send it to the address: polpal-l@uoguelph.ca. The list owner is Peter Kevan at University of Guelph.

Radiocarbon Dating Listserv: The listserv C14-L has been established for discussion of radiocarbon dating and related issues. To subscribe please send e-mail message to: listserv@listserv.arizona.edu with the following content: SUBSCRIBE C14-L Your Name, where "Your Name" is your first and last name. For further information please contact David Sewell at e-mail address: dsew@packrat.aml.arizona.edu.

HOT WWW SITES

New sites are coming onto the WWW at an astonishing rate. In each issue of the Division Newsletter, I will highlight a few of the sites I have stumbled across that contain information that seems unusually useful. Any suggestions that you have for future highlight lists will be greatly appreciated!

FedWorld at <http://www.fedworld.gov> provides a window to most U.S. federal information services

Streamflow data from selected USGS gaging stations are plotted automatically on hydrographs over time periods that you define. Historic data sets from many stations are already accessible. Some gage sites are linked via satellite to the WWW so that you can see "real-time" plots of water level changes for the past several days. Go to the Water Resources links on the USGS homepage (see above) or type <http://h2o.usgs.gov>

You can also **ask questions of the "geologist of the day"** at the USGS. It's a good way to find out who may be working in the same areas you are studying. E-MAIL your queries to **ask-a-geologist@octopus.wr.usgs.gov**.

NEXRAD Doppler radar sites for multi-state regions are fascinating to watch, especially during the field season and as hurricanes approach. Try <http://asp1.sbs.ohio-state.edu/nexrad.ntml>.

Maps of yesterday's quake epicenters focus our attention on several closely monitored areas including Los Angeles, San Francisco, Cape Mendocino, Parkfield, Long Valley, Monterey, and Hawaii. Use <http://quake.wr.usgs.gov/>. You will also find an excellent collection of links listed on the departmental homepage at <http://wombat.princeton.edu>, especially on the page for Ge210.

Jeff Lee's **directory of addresses for geomorphologists** on the AIG-Geomorphology listserv is a marvelous source of e-mail addresses for colleagues. Go to the AIG-GEOMORPHLIST address above and click on the directory link.

- Rich Whittecar

NEW ELECTRONIC JOURNAL: Glacial Geology and Geomorphology

The British Geomorphological Research Group is launching a new electronic journal to encompass topics in glacial sediments, glacial processes, fluvio-glacial and glacio-marine research and associated studies. The aim of BGRG and John Wiley and Sons (the publishers) is to create a journal with the quality of Wiley's print journals. For more information, browse the GGG homepages at <http://ggg.qub.ac.uk/ggg> or contact W. Brian Whalley at e.journal@qub.ac.uk.

WORLD WIDE WEB ADDRESSES

Many professional and academic societies, colleges and universities, publishing houses, laboratories, and agencies have "homepages" that supply services and vast amounts of information accessible via free browsers such as Mosaic and Netscape. Most have links that permit access to other sites with related information. The easiest way to find these homepages is with a "search engine" that scans the WWW for sites containing the combination of words that you specify (e.g. journal AND geomorphology AND Quaternary). Alternatively you can type in the WWW address (the "URL") and go directly to the homepage.

Keep the following list of WWW addresses handy (you need to type **http://** in front of all these URLs):

Geological Society of America:

www.aescon.com/geosociety/index.html

International Association of Geomorphologists:

www.ttu.edu:80/~jefflee (that's a tilde before jefflee)

British Geomorphological Research Group:

www.qub.ac.uk/geosci/geography/bgrg/index.html

American Geophysical Union:

earth.agu.org/kosmos/homepage.html

Association of American Geographers:

www.aag.org

Soil and Water Conservation Society:

www.netins.net/showcase/swcs

RADIOCARBON journal:

packrat.aml.arizona.edu/index.html

U.S. Geological Survey:

internet.er.usgs.gov/USGSHome.html

Cascades Volcano Observatory:

vulcan.wr.usgs.gov

Federal Emergency Management Agency:

www.fema.gov

SPECIAL JOURNAL SUBSCRIPTION RATES

QG&G Division Members

GEOMORPHOLOGY

Elsevier offers the journal *Geomorphology* to QG&G members at a special rate of \$70 for 1996. Contact Customer Services at (212)633-3750. Send your manuscripts to the Journal Editor, Jack Vitek, Dept. Geography, Oklahoma State University, Stillwater OK 74078.

QUATERNARY SCIENCE REVIEWS and QUATERNARY GEOCHRONOLOGY

Members of the QG&G Division also qualify to get both *Quaternary Science Reviews* AND *Quaternary Geochronology* for the special group rate of \$95/year (ten issues total). This offer is for personal subscriptions only. Subscription orders with payment (and/or Free Sample Copy) can be sent directly to: Agnes Impellittere, Pergamon Press Inc, 395 Saw Mill River Road, Elmsford, NY 10523. Please identify yourself as a QG&G Division member of GSA. Bill Farrand, Regional Editor for QSR, is soliciting manuscripts. Prospective authors should write him at Exhibit Museum, University of Michigan, Ann Arbor, MI 48109-1079. Send manuscripts for QC to Rainer Grun, Quaternary Dating Research Centre, RSPacS, ANU, Canberra ACT 0200, Australia, Tel: + 61 6 249 3122, fax: + 61 6 249 0315.

GEOARCHEOLOGY

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MEMORIALS

Cesare Emiliani Cesare's definitive work revolutionized our thinking about ice ages. He was also instrumental in the development of the subdiscipline of paleoceanography and what came to be known as the Deep Sea Drilling Project. He received degrees from Bologna and Chicago as well as many other honors and awards. His quick wit and wonderful sense of humour brought a smile, if not a belly laugh, to many of us. He was a brilliant academician, researcher, teacher, mentor and friend.

- Douglas "Cap" Introne

John (Jack) E. Armstrong During a career that spanned nearly 40 years, Jack made major contributions to our current understanding of the Quaternary stratigraphy and history of British Columbia. Among other things, he formulated important new concepts on glaciomarine sedimentation and established a stratigraphic framework for the Vancouver area that still stands today. Jack was among the first of the Geological Survey of Canada officers to devote their efforts, full-time, to "superficial geology", which at that time was a field viewed with something close to disdain by many of the more traditional bedrock geologists in the GSC. Jack, among others, planted seeds that allowed Quaternary research in Canada to flourish.

- John Clagu

GSA ANNUAL MEETING 1996, DENVER

The QG&G Division is soliciting proposals for symposia (Invited papers), Theme Sessions (volunteered papers), and Continuing Education/Short Courses for the 1996 Annual Meeting at Denver. Proposals should be sent through normal GSA channels (see recent issues of *GSA Today* for details). For possible QG&G sponsorship please contact: Steven M. Colman c/o IGBP/PAGES, Barenplatz 2, Bern, Switzerland CH-3011. Telephone: 4131-312-3133. Telefax: 4131-312-3168. e-mail: pages@ubeclu.unibe.ch OR Will Graf (602) 965-7533; e-mail atwlg@asuvm.inre.asu.edu.

FRIENDS OF THE PLEISTOCENE: NEWS AND 1995-96 FIELD TRIPS

Pacific South Cell: September 7-9, 1995. The Pacific South-west Cell of FOP will be led by Bill Page and Bill Lettis on Quaternary geology and neotectonics of the northern Sierra Nevada and Modoc Plateau (including Lassen Peak area), northern California. For further information please contact: Bill Page, Geosciences Dept., Pacific Gas & Electric, P.O. Box 770000, San Francisco, CA 94177, Tel: (415) 973-6784; or Bill Lettis, Wm Lettis & Assoc., 1000 Broadway, Suite 612, Oakland, CA 94607, Tel: (510) 832-3716.

Southeast Cell: November 1995??. As of late July 1995 there has been no proposal received for a Southeast FOP trip and if no one steps forward there will be no organized trip this year. As a precursor to the Binghamton Geomorphology Conference, Cliff Hupp and others have organized a field trip to the Little River Basin, the site of work by Hack and Goodlett (1960). Also, Alan Howard at University of Virginia is preparing a commentary about accessible sites in central Virginia affected by the 1995 summer floods that will be available to conference participants. If you have any trip proposals for 1996, please contact J. Steven Kite, Dept of Geology and Geography, West Virginia University, Morgantown, WV 26506-6300. Tel (304) 293-5603; Fax (304) 293-6522; e-mail kite@wvugeo.wvnet.edu

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