



Quaternary Geologist and Geomorphologist

NEWSLETTER OF THE QUATERNARY GEOLOGY AND GEOMORPHOLOGY DIVISION

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BUDGET CUTS AT GSC HIT QUATERNARY STUDIES

(From the *QUATERNARY Listerver*.) Lionel Jackson, a Research Scientist at the Geological Survey of Canada in Vancouver and a steward of the Professional Institute of the Public Service of Canada which represents scientists at the GSC, reported in early September that a new round of layoffs was inflicted on the GSC during the summer. In all, more than 60 scientific and technical staff have been lost from the GSC across Canada in this second round of cuts. Paleocological studies, key to predicting the effects of global warming based upon reconstruction of previous interglacial and late Tertiary environments, was targeted in Terrain Sciences Division for a loss of seven staff. Another area affected was research into the seismic response of the Holocene-age Fraser Delta in British Columbia. Jackson indicates that although Natural Resources Canada (NRCan), the GSC's parent department, has suffered major budget cuts in the geosciences, many new non-scientific offices and management activities within NRCan are being established. For additional information, contact Jackson at ljackson@helix.net.

LIBRARY DAMAGED AT COLORADO STATE

(From *GEOMORPHLIST*.) A flood in Fort Collins, Colorado on the evening of July 28, 1997 caused severe damage to the campus of Colorado State University, including damage to library collections. All of the university's geology and geography collections were submerged, and many items will not be salvageable. We would greatly appreciate any books or journals that individuals or organizations might be able to donate to replace materials destroyed in the flood. Joel Rutstein of the university library will be coordinating donations, and the university may be able to cover shipping costs for donated materials. Rutstein may be reached via e-mail at jrutstein@manta.colostate.edu.

-- Ellen Wohl [email:ellenw@CNR.ColoState.EDU](mailto:ellenw@CNR.ColoState.EDU)

CHINA'S GEOMORPHIC MAP - Preliminary Progress

Initial results of a multi-national mapping project and a study of the megageomorphology of Asia, supported by the National Natural Science Foundation of China, are now available as a series of basic landform maps (1:8,000,000), morphotectonic and morphoclimatic maps (1:20,000,000), a data base, and an explanatory monograph, "Outline of China's Geomorphology." Ten contributors from seven Asian countries are involved in the mapping project under the

direction of the Editorial Committee on Asian Geomorphologic Map. Special discounts will be given geologists or geomorphologists who have joined the IAG Network. For more information contact the editor-in-chief, Prof. Chen Zhiming, Nanjing Institute of Geography, Chinese Academia of Sciences, 73 East Beijing Rd., Nanjing 210008, China email:chenzhim@public1.ptt.js.cn.

PROFESSIONAL OPPORTUNITIES:

Geomorphology on Construction Sites

Geomorphologists are increasingly realizing that local environmental problems provide excellent opportunities for research, teaching, and service. Although lacking the glamour of remote field sites, local projects provide important scientific challenges yet have the advantage of simpler logistics, lower costs, and greater opportunities for student involvement. These projects also contribute to service, and can often be funded by grants and contracts from local, state, regional and national organizations. One opportunity available in almost every community is construction site erosion control. Construction sites contribute sediments and chemicals as 'nonpoint source' (NPS) pollution, which is now the leading cause of surface water quality degradation in the US. In addition to local regulations, federal regulations in operation since 1992 require erosion control plans to be implemented for all sites with 5 acres or more of land disturbance. Development and implementation of these plans requires work involving an understanding of hydrology, soil science, soil erosion, sediment transport, fluvial geomorphology, slope stability, construction processes and vegetation management. Geomorphologists are well qualified to contribute in this area, both in terms of training those who develop and implement these plans, as well as in conducting research in to the effectiveness of erosion control measures, the physical/chemical processes operating on construction sites, and in proposing and testing innovative new approaches. For those who worry about such things, it has been demonstrated that construction site erosion control work can lead to significant research funding, publication of scholarly articles in peer-reviewed journals, and invitations to present at national and international meetings. For further information on this opportunity, contact Jon Harbor [<jharbor@eas.purdue.edu>](mailto:jharbor@eas.purdue.edu).

QUATERNARY GEOLOGY AND GEOMORPHOLOGY DIVISION OFFICERS AND PANEL MEMBERS

Newly elected:

Currently serving the Division:

OFFICERS for 1997-1998:

Chair: Leslie D. McFadden
 First Vice-Chair: Ardith Hansel
 Second-Chair: Peter Clark
 Secretary-Treasurer: J. Steven Kite

OFFICERS for 1996-1997:

Chair: Karen L. Prestegaard
 First Vice-Chair: Leslie D. McFadden
 Second-Chair: Ardith Hansel
 Secretary-Treasurer: J. Steven Kite

DIVISION PANEL MEMBERS

New
 (for 1997-1999) Raymond "Bud" Burke
 Jennifer Harden
 Ernest H. Muller

DIVISION PANEL MEMBERS

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

The Division greatly appreciates the support of other members who were also on this year's ballot: Frank Pazzaglia, Donald Rodbell, and Jack Shroder.

Continuing
 (for 1996-1998) Scott F. Burns
 John B. Ritter
 Ellen. E Wohl

THANKS to QG&G Members who helped the Division

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

- ✓ **Division Panel:** Michael N. Machette, Ellen A. Cowan, Robert S. Anderson, Peter U. Clark, Lisa L. Ely, and Dorothy J. Merritts.
- ✓ **Committee on Long-Range Planning:** Steve Wells (chair), Rich Madole and Vic Baker.
- ✓ **Committee on Education** is chaired by Brian Tormey.
- ✓ **Committee on Environment:** Jack Schmidt (chair) and Richard Kessel.
- ✓ **Nominations Committee:** Ellen Wohl (chair), Ardith Hansel, and David Furbish.

The **Newsletter Editor** prepares the Quaternary Geologist and Geomorphologist for distribution in February and in September. Send information for the Newsletter to Rich Whittecar, Geological Sciences, Old Dominion University, Norfolk VA 23529; rwhittec@odu.edu.

NOMINATIONS OF 1998-2000 PANEL MEMBERS

Clip out and mail this ballot before December 1, 1997 to J. Steven Kite, Dept. of Geology and Geography, West Virginia University, Morgantown, WV 26506.

Nominations are also accepted via email at kite@wvugeo.wvunet.edu or via forms on the Division's WWW Homepage: <http://www.geology.odu.edu/quat/index.htm>.

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: _____

1997 ANNUAL MEETING, SALT LAKE CITY

Key Events and Awards

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 meeting in Salt Lake City is rich and full. Thus some division-sponsored sessions compete in time, conflicts that are as unavoidable as the divisions endeavors are large. This year, as in years past, "geomorphology" and "Quaternary" topics appear in a great many papers, sessions, and events. The Division sponsors many, but not all, of these activities.

Sunday, October 19

QG&G Short Course: Geomorphic Applications of In Situ-Produced Cosmogenic Isotopes. Leaders: Paul Bierman, Alan Gillespie.

QG&G Short Course: Practical Remote Sensing for Geology. Leader: James M. Ellis.

QG&G Executive Committee: 7:00-10:00 PM, Wyoming Room, Little America Hotel

Monday, October 20

A.M.: Quaternary Geology and Geomorphology - Posters

A.M.: T04. Hydrogeology of Landslides

A.M.: T17. Paleoseismology I

P.M.: QG/G I: Last Glacial Maximum and Earlier Events

P.M.: T42. Geomorphology in Drylands

P.M.: Cenozoic Tectonic Evolution of Northern Tibet

P.M.: Paleoclimatology/Paleoceanography/Marine Geology -
Posters

P.M.: Clastic Sediments

Tuesday, October 21

A.M.: S13. *QG&G Symposium: Isotopes and Earth Surface Processes*

A.M.: Environmental and Engineering Geology - Posters

P.M.: *QG/G II: Holocene-Recent Glacial Processes and Climates*

P.M.: Paleoclimatology: Stratigraphy, Sedimentology, and
Paleosols

P.M.: S18. Archeological Geology of Arid Environments

P.M.: T47. *QG&G/IEE: Influence of Geomorphic Processes on
Biological Communities*

ALL INVITED !!

Salt Palace Convention Center, 251DE

7:00 P.M.: QG&G Division Business Meeting and Awards.

9:00 P.M.: Reception.

Wednesday, October 22

A.M.: T45. *QG&G/IEE: Environmental Impact on Western Rivers*

A.M.: Sedimentology - Posters

P.M.: *QG/G III: Tectonic Geomorphology and Landforms*

P.M.: T46. *QG&G: Arroyos: Hydroclimatology, Quaternary
Geology, and Riverine Processes*

P.M.: Paleoceanography

Thursday, October 23

A.M.: *QG/G IV: Hillslope and Aeolian Processes*

A.M.: Environmental and Engineering Geology

P.M.: T48. Feedbacks between Tectonic and Surface Processes in
Orogensis

KIRK BRYAN AWARD WINNERS:

Meyers, Wells and Jull, 1995

The Quaternary Geology & Geomorphology Division Panel selected the Kirk Bryan Award winner for 1997:

Meyers, Grant, Wells, Steve, and Jull, A.J. Timothy, 1995, Fire and alluvial chronology in Yellowstone National Park: climatic and intrinsic controls on Holocene geomorphic process: Geological Society of America Bulletin, v. 107, no. 10, p. 1211-1230.

These scientists will be honored at the Division meeting on Tuesday evening during the GSA Annual Meeting in Salt Lake City. Frank Pazzaglia will be the citationist.

NOMINATIONS: 1998 KIRK BRYAN AWARD

Nominations for the Kirk Bryan Award for 1998 **will be accepted until December 1, 1997.** 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 include these authors:

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 Univ. 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.

1995 **James E. O'Connor** (U.S. Geological Survey) Hydrology, hydraulics and geomorphology of the Bonneville Flood, Geological Society of America Special Paper 274, 90 pg, 1993.

1996 **Roger P. Saucier** (USACE) Geomorphology and Quaternary Stratigraphy of the Lower Mississippi River Valley U.S. Army Corps of Engineers, V. 1 (364 pgs), V. 2 (map folio), 1994.

The Distinguished Career Award selection committee announces the honor for 1997 goes to **Stanley A. Schumm**, Colorado State University. Dr. Schumm will be recognized at the Division meeting on Tuesday evening during the GSA Annual Meeting in Salt Lake City. Ellen Wohl will be the citationist.

NOMINATIONS:1998 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 1, 1998**. 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 résumé 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.

Recipients of the Distinguished Career Award

Year	Recipient	Citationist(s)
1986	Richard P. Goldthwait	D.M. Mickelson
1987	Aleksis Dreimanis	S.R. Hickock, P.F.Karrow
1988	A. Lincoln Washburn	S.C. Porter
1989	Clyde Wahrhaftig	R. Janda
1990	John T. Hack	M.G. Wolman
1991	Luna Leopold	M.G. Wolman
1992	Herbert E. Wright, Jr.	A.F. Schneider
1993	Victor K. Prest	D.A. St. Onge
1994	William C. Bradley	J. Andrews, P. Birkeland, N. Caine, J. Pitlick
1995	David M. Hopkins	J. Brigham Grette
1996	Robert P. Sharp	A. Gillespie, D. Easterbrook

The Division's Mackin Committee selected the J. Hoover Mackin (Ph.D.) award winner **Joel Lawrence Pederson**, University of New Mexico, for his proposal "Variable hillslope processes and sediment delivery to tectonically quiescent basins: a Late Miocene to Quaternary record of buried, relict and modern hillslopes and their deposits." Joel will receive \$1500 for the Mackin Award.

The committee cited two other outstanding Mackin proposals for honorable mention:

Stephen Bernard Taylor, West Virginia University, "Local effects of bedrock geology and topography on hillslope processes in the central Appalachians, West Virginia and Virginia: a comparative study of landscapes underlain by the upper Devonian Hampshire Formation;" and **Ginger Hinchman Birkeland**, Arizona State University, "Relationship between flood severity and patterns of riparian vegetation along streams crossing the Waterpacket Fold in south central Utah."

The Arthur D. Howard (M.S.) award committee determined that there was a "dead heat" between two award-winning proposals:

Jason Briner, Utah State University, "Pleistocene glacial chronology of the southwestern Ahklun Mountains, Alaska"

Daniel John Koning, University of New Mexico, "Fault segmentation and tectonic geomorphology of the central section of the Alamogordo Fault, New Mexico."

Each Howard Award will be \$1200 in 1997.

All five students will be cited and receive a plaque at the Division meeting in Salt Lake City.

GSA Annual Meeting 1998, Toronto

The QG&G Division is actively seeking proposals for Symposia (invited speakers), Theme Sessions (volunteered talks), and Continuing Education/Short Courses for the 1998 Annual Meeting in Toronto (see recent issues of *GSA Today* for details.) Proposals should be sent through normal GSA channels. For possible QG&G sponsorship, contact Les MacFadden Lmcfadnm@unm.edu or Ardith Hansel hansel@geoserv.isgs.uiuc.edu.

HOW TO HAVE INPUT INTO YOUR DIVISION

1. Submit nominations for Division officers and awards.
2. Submit suggestions, gripes, etc. for considerations by the Division Mangement.
3. Submit contributions to the Division Newsletter.

Correspondence to the Division may be sent to Dr. J. Steven Kite, Dept. of Geology and Geography, P.O. Box 3600. West Virginia University, Morgantown, WV 26506-6300 **Tel:** (304) 293-5606 **email:** kite@wvugeo.wvnet. You may also contact our new Division Chair: Dr. Les McFadden, Dept. of Earth and Planetary Sciences, University of New Mexico, Albuquerque NM 87131 **email:** Lmcfadnm@unm.edu.

Quaternary Geology and Geomorphology Division Fund

Balance 12/31/95	\$ 477.19
Continuing Education Program	63.00
1996 Division Dues Income	<u>4,922.00</u>
Total Division Resources	\$ 5,462.19

Division Expenses:

Year End transfer to Mackin Acct	\$ 280.82
Newsletters - Invoice 000749	1,433.25
Annual Meeting - Invoice 000824	1,768.25
Newsletters - GSA Expenses	194.01
Newsletters - Invoice 000675	1,264.03
Other reimbursements (3)	<u>221.00</u>
Total Division Expenses	\$ 5,181.36

Division Fund Balance 12/31/96 \$ 280.83

J. Hoover Mackin Fund

Mackin Fund Balance 12/31/95 \$ 22,868.97

Contributions	15,803.14
Interest	1,084.02
Investment Gain	5,212.01
Unrealized Gain	(1,452.46)
Transfer from QGG Division	<u>280.82</u>
Total Income	\$ 20,927.63

Fund Dispersement	(\$ 1,500.00)
Service Charges	<u>(130.67)</u>
Total Expenses	(\$ 1,630.67)

Fund Balance 12/31/96 \$ 42,165.83

Arthur D. Howard Fund

Howard Fund Balance 12/31/95	\$ 34,205.51
Contributions	640.00
SCF Transfer	50.58
Interest	1,167.58
Investment Gain	7,527.53
Unrealized Gain	<u>(471.52)</u>
Total Income	\$ 9,857.21

Fund Dispersement	(\$ 1,200.00)
Service Charges	<u>121.39</u>
Total Expenses	(\$ 1,321.39)

Fund Balance 12/31/96 \$ 42,741.33

The **Gladys W. Cole Memorial Research Award** provides research support for investigations of the geomorphology of semiarid 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 30 and 65 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. The Gladys Cole Award for 1997 went to **Peter U. Clark** of Oregon State University for his research proposal "Developing an Improved Chronology of Late-Pleistocene Alpine Glaciation, Western U.S." This year the Award was \$11,500.00.

The **Robert K. Fahnstock Memorial Research Award** honors the memory of Ken Fahnstock 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 Fahnstock Award for 1997 went to **Ronald B. Zelt** of Colorado State University to support his research project, "Silvertip Watersheds Erosion and Sedimentation Study". This year the Award was \$1845.00.

APPLICATIONS FOR 1998**Gladys W. Cole Memorial Research Award****Robert K. Fahnstock Memorial Research Award**

The application forms for both of these awards 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 postmarked by February 1, 1998, to be eligible; the awards are made in April.

OTHER AWARDS:**JONATHAN O. DAVIS SCHOLARSHIP**

This scholarship will be given annually to support field research in 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. 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, 1998. Applications should be addressed to: Executive Director, Quaternary Sciences Center, Desert Research Institute, P.O. Box 60220, Reno, NV 89506. The 1997 winner was **Joseph Licciardi**, Oregon State University, for "Towards developing a numerical chronology of late-Pleistocene Glaciation in the Wallowa Mts., OR, Ruby Mts., NV, and Yellowstone area, WY."

MEETINGS

Oct 13-16, 1997: Workshop about 'Experiences with Soil Erosion Models', Prague, Czech Republic. Contact: Andreas Klik, Universitaet fuer Bodenkultur Wien, Vienna, Austria; **email:** klik@mail.boku.ac.at

Nov 5-7, 1997: What is River Health?: An international conference. University of Canberra. River Health Conference ACTS, GPO Box 2200, Canberra ACT 2601. **Tel:** 61.6.257 3299 **Fax:** 61.6.257 3256

Dec 8-12, 1997: American Geophysical Union, San Francisco, California. Sessions include Advances in Quaternary Geochronology. Contact: Glenn Berger, Quaternary Sciences Center, Desert Research Institute, 7010 Dandini Blvd., Reno, NV 89512 **Tel:**(702) 673-7354 **Fax:** (702) 674-7557 **email:** gwberger@maxey.dri.edu

Mar 25-29, 1998: Association of American Geographers annual meeting. Boston. Special session include Drylands Geomorphology (Jeff Lee: j.lee@ttu.edu), Human Impacts in Geomorphology (Jon Harbor: jharbor@uval.eas.purdue.edu), and Sediment Transport in Fluvial Systems (Mike Slattery: slattery@mail.ecu.edu).

Mar 29- Apr 5, 1998: IGU Commission Conference - From Land Degradation and Desertification to Rehabilitation. Santa Margherita di Pula, Sardinia. Contact: H.-P. Harres **email:** Harres@hrz1.hrz.th-darmstadt.de.

Apr 20-22, 1998: Applications of Stable Isotope Techniques to Ecological Studies, Saskatoon, Saskatchewan, Canada. Contact: Keith A. Hobson, Canadian Wildlife Service, 115 Perimeter Road, Saskatoon, SK Canada, S7N 0X4 **Tel:** (306) 975-4102 **Fax:** (306) 975-4089 **email:** Keith.Hobson@EC.GC.CA

Apr 20-24, 1998: Geomorphological Hazards: Extent, Evaluation, and Mapping Techniques, European Geophysical Society Symposium, Nice, France. Contact: Fausto Guzzetti (F.Guzzetti@irpi.pg.cnr.it) or Robert Allison (R.J.Allison@durham.ac.uk)

May 3-6, 1998: Watershed Management: Moving From Theory to Implementation. Denver, Colorado. Contact: Water Environment Federation, 601 Wythe Street, Alexandria, VA 22314 **Tel:** (703)684-2400

May 27-30, 1998: Internation Conference on Ground-Penetrating Radar, Lawrence, Kansas. Contact: Richard Plumb **Tel:** (913) 864-7735 **email:** gpr98@rsl.ukans.edu

June 3-6, 1998: 4th Congress of Polish Geomorphologists. Lublin. Contact: Mgr Wojciech Zglobicki, Zaklad Geologii, Instytut Nauk o Ziemi, Uniwersytet im. Marii Curie-Sklodowskiej, Akademicka 19, 20-033 Lublin, Poland, **Tel:** +81 5375023, **Fax:** +81 5333669, **email:** zglobek@biotop.umcs.lublin.pl

June 23-27, 1998: 7th International Conference on Permafrost, Yellowknife, NWT, Canada. Contact: J.A. Heginbottom, Geological Survey of Canada, 601 Booth Street, Ottawa, Ontario, Canada K1A 0E8. Circular: www.nrca.gc.ca/gsc/permaf_e.html

Aug 20-26, 1998: 9th International Conference on Geochronology, Cosmochronology and Isotope Geology. Beijing, China. ICOG-9 Secretariat: Chinese Academy of Geological Sciences, Baiwanzhuang Road 26, Beijing 100037, China. **Tel:** 0086-10-68311545 **Fax:** 0086-10-68311545, **email:** liudunyi@public.bta.net.cn

Sept 4-11, 1998: Global Continental Paleohydrology, Third International Meeting. Kumagaya, Japan and the Japan Alps. Contact: Hiroshi Shimazu, GLOCOF '98, Dept. Geography, Rissho University, 4-2-16 Osaki, Shinagawa-ku, Tokyo 141, Japan.

Sept 5-7, 1998: 15th Biennial AMQUA Meeting. Puerto Vallarta, Mexico. Meeting theme: "Northern Hemisphere-Southern Hemisphere Interconnections." Contact: Eric C. Grimm, 1011 East Ash Street, Springfield, IL 62703 **Tel:**(217)785-4846 **email:** grimm@museau.state.il.us <http://www.usu.edu/~amqua/>

Sept 10-19, 1998: Rapid Coastal Changes in the Late Quaternary. Corinth and Samos, Greece. IGCP Project 367 final meeting. Contact: Stathis Stiros **email:** stiros@prometheus.hol.gr

Sept 18-20, 1998: Tracers in Geomorphology, BGRG Annual Conference. Coventry, U.K. Contact: Ian Foster, NES (Geography), Coventry University, Priory St, Coventry CV1 5FB, UK, **Tel:**+44(0)1203 838404/838444 **Fax:**+44 (0) 1203 838447 **email:**gex002@coventry.ac.uk

Oct 26-29, 1998: GSA Annual Meeting, Toronto, Ontario.

Jan 10-14, 1999: 4th World Archeology Congress. Cape Town, South Africa. Congress Secretariat: P.O. Box 44503, Claremont, 7735, South Africa. **Tel:** +27 (21) 762-8600 **Fax:** +27 (21) 762-8606 **email:** wac4@globalconf.co.za

Aug 3-11, 1999: INQUA Congress. Durban, South Africa. "The Environmental Background to Hominid Evolution in Africa." Contact: Conference Africa, P.O.Box 1722, Parklands, 2121, Johannesburg, South Africa **email:** cafrica@iafrica.com

"Fall 1999": Second International Paleoflood Conference, Central Arizona. Contact: P. Kyle House **email:** khouse@maxey.dri.edu

Oct 25-28, 1999: GSA Annual Meeting, Denver, Colorado.

Aug-Sept, 2001: 5th International Conference on Geomorphology, International Association of Geomorphologists. Tokyo, Japan. Contact: Japanese Geomorphological Union, **Fax:** +81-774-38-4105 **email:** jgu@slope.dpri.kyot-u.ac.jp c/o Disaster Prevention Research Institute, Kyoto University, Gokasho, Uji, Kyoto 611, Japan

1998 FRIENDS OF THE PLEISTOCENE TRIPS

North-Central Cell: Processes and environments: Laurentide Ice Sheet Margin, North-central Wisconsin. May 29-31, 1998. Merrill, Wisconsin. Topics will include complex ice flow patterns, the pattern and sequence of ice disintegration and landform development, depositional processes, and the influence of late glacial climate on landscape evolution. Contact: John Attig, Wisconsin Geological and Natural History Survey, 3817 Mineral Point Road, Madison WI 53705 **Email:** jwattig@facstaff.wisc.edu.

Southeastern Cell: No trip is yet scheduled. Volunteers to lead the field trip in Fall of 1998 should contact Steve Kite, Dept. of Geology and Geography, West Virginia University, Morgantown, WV 26506 **Tel:**(304)293-5606 **Email:** kite@wvgeo.wvnet.edu

South-Central Cell: Geography and Geology of the Grand and Black Prairies of Texas, April 3-4, 1998, Waco, Texas. On the Cretaceous Prairies of Texas, differences in geology have contributed to significant variations in landforms, soils, vegetation, indigenous animal populations, human history, and changing landuse. Contact: O.T. Hayward or Joe Yelderman **Tel:** (254)755-2361 **Email:** O_T_Hayward@baylor.edu; yelderman@baylor.edu.

For the latest information about FOP trips, check with Darrell Kaufman's AMQUA site: www.usu.edu/~amqua.

OPPORTUNITIES FOR DIVISION MEMBERS

SPECIAL JOURNAL SUBSCRIPTION RATES

QG&G Division Members

GEOMORPHOLOGY Elsevier offers the journal *Geomorphology* to QG&G members at a special rate of \$88 for 1998. 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 GEOCHRONOLOGY/

QUATERNARY SCIENCE REVIEWS Members of the QG&G Division also qualify to get both *Quaternary Science Reviews* AND *Quaternary Geochronology* for the special group rate of \$110/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, Elsevier Science Inc., 660 White Plains Road, Tarrytown NY 10591. 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 QG&G Division members can get *Geoaerchology* for the group rate of \$95/year. The rate for Division members outside North America is \$143. The offer is for personal subscriptions only (subscription orders must include GSA membership number). Payment can be sent directly to: Subscription Department, John Wiley & Sons, Inc, P.O. Box 7247-8491, Philadelphia, PA 19170-8491. U.S. members should include appropriate state sales tax and Canadian members should add 7% GST, which Wiley is obliged to collect.

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 student research grants, February 1, 1998; for travel grants to Charleston WV, March 2, 1998; and for travel to Salt Lake City, October 1, 1997. For more information, contact Dr. Harold Stowell, Dept. Geology, University of Alabama, Tuscaloosa AL 35487 (205)348-5089 email: hstowell@wgs.geo.ua.edu or log onto the SEGSA Web page: www.geo.ua.edu/segsa/segsa.html.

Cordilleran GSA Members:

The GSA Cordilleran Section has funds available for partial support of GSA Student Associates of the Section who are presenting papers at the meeting. Apply to Cordilleran Section Secretary Bruce A. Blackerby, Dept. of Geology, California State University, Fresno, CA 93740, (209) 278-2955, bruceb@csufresno.edu. Applications should include certification that the student is presenting a paper and is a GSA Student Associate of the Cordilleran Section. All letters must be received by January 15, 1998.

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, 1998. 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.

ARCTIC RESEARCH EXCELLENCE AWARD

The Arctic Research Consortium of the United States (ARCUS) announces the Second Annual ARCUS Award for Arctic Research Excellence competition. This year's student competition will be judged in four broad categories - Physical Sciences, Life Sciences, Social Sciences, and Interdisciplinary - with up to four awards given. The review panel will include top arctic researchers from various fields. The deadline for submissions is December 1, 1997. The award winners will receive \$500 cash and an all expenses paid trip to the March 1998 Arctic Forum in Washington, D.C. where they will present their work to a broad-based audience of top researchers, funding agency personnel and government officials. For additional information and an entry form, please visit the ARCUS Web site at <http://arcus.polarnet.com/Award/> or contact the ARCUS office at arcus@polarnet.com or (907)474-1600.

SOME RECENT PUBLICATIONS

La Carta Geomorfologica della Pianura Padana (**Geomorphological Map of the Po Plain**) and La Carta Altimetrica e die Movimenti Verticali del Suolo dele Pianua Padana (**Map of Relief and Vertical Movements of the Po Plain**), both 1:250,000 and in three independant sections. Each section Lit 25,000 and the complete map of each of the two topics, Lit 60,000 each. S. EL. CA. s.r.l., Via Reginaldo Giuliani 153, 50141 - Firenze, Italy.

Widdowson, M. (editor), 1997. **Paleosurfaces: Recognition, Reconstruction and Paleoenvironmental Interpretation**. Geological Society Special Publication No. 120. 300 pg. (hardback) US\$107. (GSA Members get a 40% discount off of Geological Society-UK publications). Contract: Geological Society Publishing House, Unit 7, Brassmill Enterprise Centre, Brassmill Lane, Bath BA1 3JN, UK

(from GEOMORPHLIST listserv): The USGS has a library of about **100 videos which they lend out free to anyone in the USA**. Contact: Michael Moore, USGS, MS 951, 345 Middlefield Rd., Menlo Park, CA 94025. Tel: (415) 329-5009.

Quaternary Geology and Geomorphology Division information, research opportunities for students, directions for email listservers of interest to Division members, and links to sites with information about geomorphic processes and Quaternary studies:

<http://www.geology.odu.edu/quat/index.html>

Information about the Younger Dryas with paleovegetation maps

<http://www.esd.oml.gov/em/gen/nerc.html>

The North American Pollen Database (NAPD) is a public database available from the World Data Center-A for Paleoclimatology sponsored by the NOAA Paleoclimatology Program and housed at the National Geophysical Data Center (NGDC) in Boulder, Colorado. The relational database as well as various ASCII and spreadsheet files for individual sites are available from the the NGDC Web site.

<http://www.ngdc.noaa.gov/paleo/paleo.html>

[NOAA Paleoclimatology Program]

<http://www.ngdc.noaa.gov/paleo/pollen.html>

[Pollen Database Page]

<http://www.ngdc.noaa.gov/paleo/napd.html>

[NAPD Page]

The Canadian Geomorphology Research Group's "Internet Bibliography of Canadian Geomorphology" with 6100 citations:

<http://geography.geog.uvic.ca/dept/cgrg/cgrg.htm>

NOAA has several data sets including 5 minute elevations and bathymetric data for the globe. You can select your area of interest by coordinates and download a matrix of values.

<http://www.ngdc.noaa.gov/mgg/global/seltopo.html>

Check out the online paper, "Palaeoenvironmental records of postglacial climate change in the Prairie ecozone" by A. B. Beaudoin and others. In addition to text and maps, the paper also gives access to a downloadable database of postglacial palaeoenvironmental sites in the Prairie Provinces.

http://www.cciw.ca/eman-temp/reports/publications/nm97_paleo/intro.html

The Virtual Geosciences Professor contains links to nearly 600 "course resources" used by geosciences faculty, "virtual field trips", and an opportunity to join the VirtualCoffeeRoom - a LISTSERV for geoscience faculty who are experimenting with the Internet as one way to enhance the learning environment.

<http://www.uh.edu/~jbutler/anon/anonfield.html>

Climate data and ice-coring projects in the high mountains of Bolivia are accessible via sites up by the UMass Climate Lab team on Volcan Sajama and Nevado Illimani:

<http://www.geo.umass.edu/climate/sajama/sajstart.html>

Allier River (France) homepage focuses on river morphology:

<http://home.pi.net/~awilbers>

A special edition of the International Journal of Limnology (Memorie dell'Istituto Italiano di Idrobiologia) dedicated to Late-Glacial and Holocene Palaeolimnology of Lake Albano and Nemi (volcanic depressions near Rome, Italy):

<http://www.iii.to.cnr.it/iiinteuk.htm>

INQUA Sub-Commission on Data-handling, Newsletter 16:

<http://www-paleocol.plantsci.cam.ac.uk/inqua/>

Research dealing with the Quaternary of South America:

<http://web.syr.edu/~goselze/sac.html>

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