



Quaternary Geologist and Geomorphologist

NEWSLETTER OF THE QUATERNARY GEOLOGY AND GEOMORPHOLOGY DIVISION

Volume 39, Number 2

September 1998

KIRK BRYAN AWARD WINNER:

Vance Holliday

The Quaternary Geology & Geomorphology Division Panel selected the following paper to receive the Kirk Bryan Award for 1998:

Holliday, Vance T., 1995, Stratigraphy and Paleoenvironments of Late Quaternary Valley Fills on the Southern High Plains: Geological Society of America Memoir 186

Dr. Holliday will be honored at the Division meeting on Tuesday evening during the GSA Annual Meeting in Toronto. Rolfe Mandel will be the citationist.

NOMINATIONS for 1999 KIRK BRYAN AWARD

Nominations for the Kirk Bryan Award for 1999 will be accepted until December 1, 1998. 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: Alan R. Nelson, U.S. Geological Survey, Denver CO.

Recent recipients include these authors:

1993 **William B. Bull**. Geomorphic responses to climate change, Oxford Univ. Press, 326 p., 1991.

1994 **Arthur N. Palmer**. Origin and morphology of limestone caves, Geol. Society of America Bulletin, v. 103, p. 1-21, 1991.

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

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

1997 **Grant Meyer, Stephen Wells, and Timothy Jull**. Fire and alluvial chronology in Yellowstone National Park: climate and intrinsic controls on Holocene geomorphic process: Geol. Society of America Bulletin, v. 107, 1211-1230.

J. H. MACKIN and A. D. HOWARD AWARD WINNERS

The Division's Mackin Committee selected the J. Hoover Mackin (Ph.D.) award winner - **Noah Snyder**, Massachusetts Institute of Technology. His proposal is for the project "Channel response to varying uplift, King Range, northern California." Kelin Whipple is his advisor. Noah will receive \$2000 and a plaque.

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

Yarrow Axford, Utah State University - "Late Quaternary Glacier Fluctuations and Vegetational Changes in NW Aklum Mountains, SW Alaska." Darrell Kauffman is Yarrow's advisor.

Sarah Linfield Brown, University of Vermont. "Lacustrine records of Holocene hillslope erosion in New England." Paul Bierman is her advisor.

Each Howard Award will be \$1500 in 1998.

The committee cited three other outstanding Howard proposals for honorable mention:

David Mitchell, University of New Mexico - Modeling long-term rates of incision of four New Mexico streams using a field-calibrated stream power law (Frank Pazzaglia)

Matthew Pachell, Utah State University - Glacial Tectonism of Pleistocene sediments, Flat Cape, southwestern Alaska (Darrell Kaufman)

Tammy Rittenour, University of Massachusetts - Drainage history of Glacial Lake Hitchcock, Northeastern United States (Julie Brigham-Grette)

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

Applications for 1999 Mackin and Howard Awards must be received by February 15, 1999. Both Winners will be selected by April 15, 1999. Application forms are available from the Division Secretary, Alan Nelson.

DISTINGUISHED CAREER AWARD: Dale Ritter

The Distinguished Career Award selection committee announces the honor for 1998 goes to Dale F. Ritter, Desert Research Institute, University of Nevada. Dr. Ritter will be recognized at the Division meeting on Tuesday evening during the GSA Annual Meeting in Toronto. Jerry Miller will be the citationist.

NOMINATIONS NEEDED: 1999 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, 1999. Nominations should be sent to the Division Secretary, Alan Nelson, 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 resume 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 Service 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 |
| 1997 | Stanley A. Schumm | Ellen Wohl |

QUATERNARY GEOLOGY AND GEOMORPHOLOGY DIVISION OFFICERS AND PANEL MEMBERS

Newly elected:

OFFICERS for 1998-1999:

Chair: Ardith Hansel
First Vice-Chair: Peter Clark
Second-Chair: R. Craig Kochel
Secretary: Alan R. Nelson
Treasurer: J. Steven Kite

DIVISION PANEL MEMBERS

New for 1998-2000

Julie Brigham-Grette
Donald Rodbell
Jim E. O'Connor

The Division greatly appreciates the support of other members who were also on this year's ballot: Frank Pazzaglia, David Furbish, and David Hill.

Currently serving the Division:

OFFICERS for 1997-1998:

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

DIVISION PANEL MEMBERS

Retiring for 1996-1998

Scott F. Burns
John B. Ritter
Ellen Wohl

Continuing for 1997-1999

Jennifer Harden
Raymond "Bud" Burke
Ernest H. Muller

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: Peter U. Clark, Lisa L. Ely, and Dorothy J. Merritts, Scott Burns, John Ritter, and Ellen Wohl

Nominations Committee: Jennifer Hardin (Chair), Peter Church, and John Ritter.

NEW EDITOR NEEDED FOR DIVISION NEWSLETTER

The Newsletter Editor prepares the *Quaternary Geologist and Geomorphologist* for distribution in February and in September. Due to workplace changes and new administrative assignments, the current Editor needs to pass the role to another Division member. Anyone interested in the position should contact one of the Division officers, particularly Alan Nelson, Secretary-elect anelson@ght.cr.usgs.gov. You may send information for the next Newsletter to the current Editor, Rich Whittecar, Ocean Earth and Atmospheric Sciences, Old Dominion University, Norfolk VA 23529; rwhittec@odu.edu. He will forward it to the new Editor.

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 Management.
3. Submit contributions to the Division Newsletter.

Correspondence to the Division may be sent to Dr. Alan R. Nelson, U.S. Geological Survey, Denver CO email: anelson@ght.cr.usgs.gov. You may also contact our new Division Chair: Dr. Ardith Hansel, Illinois Geological Survey, 613 E. Peabody, Champaign IL email: hansel@geoserv.isgs.uiuc.edu

1998 ANNUAL MEETING, TORONTO 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, theme, poster, and symposia sessions at annual meetings. The agenda for the annual meeting in Toronto is rich and full. Thus some division-sponsored sessions compete in time, conflicts that are as unavoidable as the Division's 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 25

7:00-10:00 P.M.: QG&G Division Management Board Meeting

Monday, October 26

A.M. North American Ice Sheets during Marine Isotope Stages 3 to 1: Extent, Chronology, Data and Modeling

A.M. Terrestrial Records of Late-Glacial and Holocene Climate Change in the Americas

P.M. Continental Glaciations: Continuing Debates I

P.M. Terrestrial Records of Late-Glacial and Holocene Climate Change in the Americas II

Tuesday, October 27

A.M. Quaternary Geology and Geomorphology Posters

A.M. The Power of Paleolimnology: State of the Art and Future Directions (Posters)

A.M. Continental Glaciations: Continuing Debates II

A.M. Holocene Climate Change on the Great Plains

P.M. On the Nature and Origin of Stone Lines and Lithologic Discontinuities in Sediments and Soils

P.M. Holocene Climate Change on the Great Plains

ALL INVITED !!

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

8:00 P.M.: Reception

Wednesday, October 28

A.M. Environments and Timing of the Last Interglaciation: Vegetation, Paleohydrology, and Climate

A.M. Response to Holocene Climate Change on the Great Plains

A.M. Landslides and Engineering

A.M. The Power of Paleolimnology: State of the Art and Future Directions

A.M. Hydraulics, Fracture Flow, and Karst

P.M. QG&G: Fluvial & Hillslope Geomorphology: Channel Erosion, Sed. Transport and Paleoenvironmental Studies

P.M. Application of Cosmogenic Nuclides in Surficial Processes and Global Change Studies

P.M. The Power of Paleolimnology: State of the Art and Future Directions II

Thursday, October 29

A.M. Karst, Nitrates, Tracers, Aquitards

A.M. QG&G: Tectonic Geomorphology and Soil Geomorphology/Weathering

A.M. Surficial Processes and Landscape Dynamics Within Arid and Desert Environments

P.M. QG&G: Quaternary Glacial Events and Paleoclimate

P.M. Interpreting Fossil Earthquakes from the Stratigraphic Record

CALL FOR PROPOSALS: GSA Annual Meeting 1999, Denver

The QG&G Division is actively seeking proposals for Symposia (invited speakers), Theme Sessions (volunteered talks), and Continuing Education/Short Courses for the 1999 Annual Meeting in Denver (see recent issues of GSA Today for details.) Proposals should be sent through normal GSA channels. For possible QG&G sponsorship, contact Ardith Hansel hansel@geoserv.isgs.uiuc.edu or Peter U. Clark clarkp@ucs.orst.edu.

GSA AWARDS

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 1998 went to Steven L. Forman of the University of Illinois at Chicago for his research proposal "Late Quaternary glaciations of northern Novaya Zemlya, Russia." This year the Award was \$11,000.

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. Awards in recent years have been between \$1500 and \$2000.

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, 1999, to be eligible; the awards are made in April.

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, 1999. Applications should be addressed to: Executive Director, Quaternary Sciences Center, Desert Research Institute, P.O. Box 60220, Reno, NV 89506. The 1998 winner was Yvonne A. Wood from the University of California-Riverside. Ms. Wood's dissertation title is "Mesoscale Patterns of Desert Pavement Stone Mosaics: Linkages with Vegetation and Soil Distributions on a Single-Age Basalt Flow, Cima Volcanic Field, Eastern Mojave Desert, California."

NOMINATIONS OF 1999-2001 QG&G PANEL MEMBERS

Clip out and mail this ballot before December 1, 1998 to Alan R. Nelson, U.S. Geological Survey, P.O. Box 25046, MS 966, Lakewood Colorado 80225, send a note via email to anelson@ghr.cr.usgs.gov , or use 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: _____

SPECIAL JOURNAL SUBSCRIPTION RATES QG&G Division Members

GEOMORPHOLOGY Elsevier offers the journal *Geomorphology* to QG&G members at a special rate of \$91 for 1999. 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 \$115/year (14 issues total). This offer is for personal subscriptions only. Subscription orders with payment (and/or Free Sample Copy) can be sent directly to: Agnes Impellitiere, Elsevier Science Inc., 660 White Plains Road, Tarrytown NY 10591. Please identify yourself as a QG&G Division member of GSA. For additional information, one should check the Net at <http://www.elsevier.com/locate/quascirev>. 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 *Geoarcheology* 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.

ARCTIC RESEARCH EXCELLENCE AWARD

The Arctic Research Consortium of the United States (ARCUS) solicits entries for the Third Annual ARCUS Award for Arctic Research Excellence competition. Student competition is 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, 1998. In past years award winners will receive \$500 cash and an all expenses paid trip to the 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 arcus.polarnet.com/Award/ or contact the ARCUS office at arcus@polarnet.com or (907)474-1600.

STUDENT RESEARCH AND TRAVEL GRANTS

All GSA Student members: The purpose of the general research grants program is to provide partial support of master's and doctoral thesis research in geological sciences for graduate students at universities in the United States, Canada, Mexico, and Central America. GSA strongly encourages women, minorities, and persons with disabilities to participate fully in this grants program. Applicants need not be members of GSA. Funding for this program is provided by a number of sources, including GSA's Penrose and Pardee endowments, the National Science Foundation, industry, individual GSA members through the Geostar and Research Grants funds, and numerous dedicated research funds that have been endowed at the GSA Foundation by members and families.

To apply for one of these grants, you must fill out an application form, which is available from GSA Campus Representatives and department chairpersons at geology departments in the United States, Mexico and Canada, or from GSA headquarters (Research Grants Administrator, Geological Society of America, P.O. Box 9140, Boulder, CO 80301-9140, lcarter@geosociety.org). Evaluations from two faculty members are required on GSA appraisal forms. The deadline for applications is February 1. Applications must be submitted on forms for the current year. Grants are awarded in April.

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, 1999; for travel grants to Athens, GA, March 1, 1999; and for travel to Denver, October 1, 1999. 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/segga/segga.html.

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, 1999. 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.

RECENT PUBLICATIONS

The Geomorphic Evolution of the Yosemite Valley and Sierra Nevada Landscapes, by Jeffrey P. Schaffer. Wilderness Press, 2440 Bancroft Way, Berkeley, CA, 94704. (510)843-8080. 338 pg. A reinterpretation of a long-studied landscape.

Applied River Morphology, by D. Rosgen. 1998. An expansion of Rosgen's 1994 article in *Catena*, "A Classification of Natural Rivers." Wildland Hydrology Books, 157649 US Hwy 160, Pagosa Springs, CO 81147. 390 pg. \$89.95.

The River Field Book, by Luna B. Leopold. 1998. Water resistant field book with a variety of specialty pages useful as forms for data recording in the measurement of channels, profiles, sediments, and streamflow. Wildland Hydrology Books, Pagosa Springs, CO.

Rock Coatings, by Ronald I Dorn. Elsevier: New York, 444 pg. 1998. \$207 (US). Elsevier Science, P.O. Box 882, email: usinfo-f@elsevier.com. A review and synthesis of research in this interdisciplinary field.

Elements of Physical Hydrology, by G. M. Hornberger, J. P. Raffensperger, P. L. Wigerg, and K.N. Eschlman. Johns Hopkins University Press, 314 pgs with CD-ROM. 1998. Go to www.press.jhu.edu to try out the CD.

SPECIAL ISSUE OF THE HOLOCENE **"Speleothems as paleoclimatic archives"**

When coupled with various climatic proxies (stable isotopes, growth bands, organic biomarkers, trace elements), timescales developed from speleothems (cave dripstones) contribute greatly to high-resolution terrestrial data sets. We invite our colleagues to submit papers to a special issue of "The Holocene" scheduled to be in print by August 1999. We would like papers dealing both with speleothem-derived data as such, but also correlations with other proxy archives, like tree-rings, ice- cores and the marine record. (from *Stein-Erik Lauritzen* stein.lauritzen@geol.uib.no).

STUDENT MEMBER HONORED

Richard Ashmore, a student member of the QG&G Division and a senior at Lamar University, recently received two awards. USA Today named him to its 1998 All-USA College Academic Team. Also he was named the Convention Scholar by the American Association of Petroleum Geologists. Congratulations!

HOWARD AND MACKIN FUNDS NEED YOUR SUPPORT

You can contribute to the fund that supports the Howard and the Mackin grants 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 support deserving graduate students.

SOME SITES ON THE WEB

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: www.geology.odu.edu/quat/index.html

Paleoseismology Page highlights the effects of the "Fossil Earthquake of the Month", such as the coseismic uplift that killed corals in Sumatra during the giant earthquake of 1833: geohazards.cr.usgs.gov/paleosei/PPMain.htm

Emporia State University offers a **graduate course in remote sensing** that is available via the Internet. Students working with geomorphology and environmental site investigations should investigate at academic.emporia.edu/aberjame/remoted/remoted.htm (contact J.S. Aber aberjame@emporia.edu)

Landform Analysis is a relatively new journal that publishes articles of high scientific or practical interest in any aspect of geomorphological studies. For more information, contact Jacek Jania <jjania@us.edu.pl> or hum.amu.edu.pl/~spg/la/laintr.htm.

Information about **sudden jumps in the Quaternary climate record** and perspective on the possibility of these occurring in future due to greenhouse gas warming. This page is part of a larger site for the Quaternary Environment Network (QEN) maintained by Jonathan Adams that includes the Atlas of Paleovegetation and information on the Younger Dryas: www.esd.ornl.gov/ern/qen/transit.html

The **North American Pollen Database (NAPD)** is a repository for Quaternary pollen data and related metadata. It 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: www.ngdc.noaa.gov/paleo/paleo.html or napd.html

NOAA people have a data set of **5 minute elevations for the whole world**, including bathymetric data. You can select your area of interest by coordinates and download a matrix of values: www.ngdc.noaa.gov/mgg/global/sclopo.html

The **Virtual Geosciences Professor** site is for those curious as to how other geosciences faculty are using the World Wide Web to distribute course resources. It includes nearly 600 "course resources" produced by nearly 150 academic units, arranged by university and by subject matter: www.uh.edu/~jbutler/anon/anonfield.html

The UMass Climate Lab team has a **satellite-linked climate station** on the summits of Volcán Sajama and Nevado Illimani, Bolivia. The site also describes the **ice coring effort** for several field seasons that involved UMass and Ohio State researchers: www.geo.umass.edu/climate/sajama/sajstart.html

UPCOMING MEETINGS

November 12-15, 1998: **Binghamton Geomorphology Symposium**, Coastal Geomorphology, Woods Hole, Massachusetts. Contact: Paul Gares, Fax: 919 328 6084; garesp@mail.ecu.edu.

Nov 15-20, 1998: **Eighth Biennial Australian and New Zealand Geomorphology Conference**, Goolwa. Contact: Robert Bourman robert.bourman@unisa.edu.au

December 6-10, 1998: **American Geophysical Union**, San Francisco. Many sessions of interests including Geomorphic Processes and Riverine Habitat; Hillslope and Fluvial Processes; Floodplain Processes, Evolution, and Restoration; Geomorphology of Mountainous Regions; El Nino, Landslides, and Coastal Retreat; Nearshore Processes; The Geomorphology of Metamorphism: Mesoscale Linking Between Surficial and Crustal Processes, and Late Quaternary of the Siberian Arctic.

January 4-7, 1999: **Royal Geographical Society Conference** (with Institute of British Geographers and British Ecological Society), Leicester University, UK. Several sessions of interests including Extending the Ecological Timescale (contact: Francis Mayle fem12@leicester.ac. and Linking Climate with Land Surface Change (D. Kniveton, drk5@leicester.ac.uk)

February 8-11, 1999: **2nd Australian Stream Management Conference**, Adelaide, South Australia. (contact: Jim Burston Ph (08) 8200 3810 jburston@denr.sa.gov.au

March 23-27, 1999: **Association of American Geographers Annual Meeting**, Honolulu. Includes several sessions of interest including Human Impacts in Geomorphology (contact: Jon Harbor), Sediment Transport in Fluvial Systems (contact: Michael Slattery) Wetland Restoration/Creation (contact: Christopher Woltemade), Soils in Archeological and Cultural Context (contact: Tim Beach).

April 10-11, 1999: **7th Multidisciplinary Conference on Sinkholes and the Engineering and Environmental Impacts of Karst**, Harrisburg, Pennsylvania. (contact: Gayle Herring pelaor@usit.net)

June 20-24, 1999: **Coastal Sediments '99**: Scales of Coastal Sediment Motion and Geomorphic Change, Long Island, New York. (contact: Nicholas C. Kraus (601) 634-2016, <http://www.coastalsediments.org>.)

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 cafrica@iafrica.com

"Fall 1999": **2nd International Paleoflood Conference**, Central Arizona. Contact: P. Kyle House <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. Contact: Japanese Geomorphological Union, Fax: +81-774-38-4105 <jgu@slope.dpri.kyoto-u.ac.jp> c/o Disaster Prevention Research Institute, Kyoto Univ., Gokasho, Uji, Kyoto 611, Japan

For information about other meetings in many disciplines, check the GSA Calendar at <http://www.geosociety.org>.

FRIENDS OF THE PLEISTOCENE FIELD TRIPS

Southeastern Cell

Fan deposits and the geomorphic development of mountain footslopes in selected areas of the Blue Ridge province, northwestern North Carolina and adjacent Tennessee. Camp Broadstone, NC (near Boone), November 13-15, 1998. Emphasis will be on the weathering and form characteristics of fans ranging in age from late Holocene to early Pleistocene; implications for environmental geology will be illustrated by a case study. Leaders: Hugh Mills, Ellen Cowan, Keith Seramur, and others. Contact: Hugh Mills, email hmills@ntech.edu, phone 931-372-3521, fax 931-372-3363.

Pacific Cell

Quaternary Geology of the Yucca Mountain Area, Southern Nevada. October 9-11, 1998. Topics will include soils and stratigraphy; advances in the dating of Quaternary deposits and surfaces; the influence of climate change on eolian, fluvial, and hillslope processes; and the characteristics of long-recurrence Great Basin faults. Contact: John Whitney or Emily Taylor, USGS MS 425, Denver, 80225; Larry Anderson or Ralph Klinger, Bureau of Reclamation, Denver <rklinger@do.usgr.gov> WWW: chroma.cr.usgs.gov.

Rocky Mountain Cell

In mid-September, the group visited several sites near Socorro, N.M. along the Rio Puerco, and in the Sevilleta Wildlife Refuge. They also discussed the tectonic geomorphology of the La Jencia and Socorro Canyon faults, as well as the Almagordo Fault. For additional information, contact J.B.J. Harrison, Earth and Environmental Sciences Department, New Mexico Tech, Socorro, NM, 87801; 505-835-5864.

South-Central Cell

Soil geomorphology of the Arkansas River valley, eastern Oklahoma - Spring 1999. Brian Carter and Phil Ward III are organizing a trip to highlight Pleistocene river terraces, archeological sites, and soils of the Arkansas River valley. Contact: Brian Carter, Department of Plant and Soil Sciences, 160 Agriculture Hall, Oklahoma State University, Stillwater, OK 74078; 405-744-6414; BJC@soilwater.ajr.okstate.edu

Pacific Northwest Cell

Quaternary Geology of the Willamette Valley - September 19-20, 1998. Leaders were Scott Burns (Portland State University) and Jim O'Connor (USGS, Portland). Planned highlights included both new and old (reinterpreted) sites in the valley; rhythmites in Portland, Dayton, Corvallis, and Irish Bend; quarries in Salem and Eugene with lahars that have come from the High Cascades all of the way to the valley floor; new chemical signatures used to tell Missoula Flood sequences; and many new ages of deposits.

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



The Geological Society of America

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October 26-29, 1998

1998 GSA Annual Meeting
TORONTO

