

G E O M O R P H O R U M

Newsletter of the Geomorphology Specialty Group of the Association of American Geographers

2008 / 2009, Issue No. 2

Dan Royall, Editor

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SPECIALTY GROUP OFFICERS 2008-09

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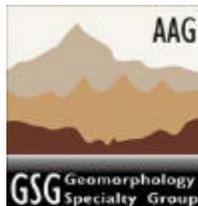
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A MESSAGE FROM THE CHAIR

by Scott Lecce

In spite of the dismal state of the economy and the impacts it has on our ability to travel (e.g., ECU has supposedly frozen all travel), at least some airfares are dropping, and things are generally falling into place as we get closer to the AAG's 2009 Annual Meeting in Las Vegas. In addition to the usual compliment of geomorphology paper and poster sessions (we have a full program, with 22 special sessions sponsored by the GSG), since this is the 30th anniversary of our formation as a specialty group, I would like to take this opportunity to direct your attention to several special events that I hope you will want to attend this year.

If you plan on arriving early before sessions begin, the first activity sponsored by the GSG will take place on Saturday, March 21, when Norman Meek will lead a one day field trip to Death Valley and nearby Tecopa basin.

Tuesday's business meeting will be preceded by a panel session moderated by Frank Magilligan, "The Geomorphology Specialty Group After 30 Years: Looking Back, Looking Forward." The panelists are Will Graf, Dorothy Sack, Dick Marston, Pat McDowell, and Jack Vitek. They will provide their perspectives on where have we come from and what the future might hold for us as a group. I know many of you who are not on the panel also have much to contribute to this discussion and I hope to see you there to participate in the audience.

At the conclusion of the business meeting Tuesday evening, I would like to invite everyone to attend the Geomorphology Specialty Group's 30th Anniversary Reception at 8:30 pm in Royale Pavilion 1 of the Riviera Hotel. This reunion will allow us to mingle and socialize as a group with past officers, award winners, and others instrumental in the success of the GSG. GSG historian Dave Butler will get things rolling with a brief slide show (in fact, I understand that Dave is on the lookout for humorous photographs from days past). You will be

pleased to know that, thanks to several generous donations by GSG members, complimentary beverages will be provided at this event. We will also use the reception to continue our fund-raising campaign to help support student awards. The campaign that Jon Harbor is leading to raise money for the Marcus Fund is going very well thus far, having already collected more than \$6,000. So, send Dave your photos and either bring your checkbooks to the reception or fill out the GSG Campaign Contribution Form (see end of newsletter).

One of the highlights of the meeting in recent years has been the Wiley-Blackwell lecture. With the recent change in publishers of AAG journals, Taylor-Francis/Routledge has agreed to take over sponsorship of this lecture. This year's Taylor-Francis/Routledge Distinguished Lecture on Geomorphology and Society will be given by James C. Knox. The topic of Jim's lecture will be "Flood Geomorphology in the Upper Mississippi Valley" and it will take place during the traditional noon timeslot (11:55-12:55) on Wednesday.

Finally, as those of you who were at last year's business meeting in Boston know, after five years of organizing the Physical Geography Reception, Fritz Nelson has passed on this responsibility to the specialty groups. First, let me thank Fritz for the wonderful job he has done, the reception has provided an excellent opportunity for our diverse memberships to interact and stay in touch. This year's event has been organized by the GSG, and the way things look thus far we should be in position to deliver a nicely funded reception featuring Fritz Nelson's slide show and complementary snacks and beverages.

I look forward to seeing you in Las Vegas.

Cheers,
Scott

CALL FOR CONTRIBUTIONS TO GSG ENDOWMENT

by Jon Harbor

This is an invitation for you to make a modest contribution to the GSG's 30th Anniversary Endowment Campaign, to help ensure the long-term financial health of our awards program.

The Geomorphology Specialty Group (GSG) of the Association of American Geographers will celebrate its 30th Anniversary at the upcoming AAG meeting in March. It's hard to believe we have been going this long!

Over the past three decades our specialty group has provided a wonderfully supportive environment for geomorphologists to share their science, recognize each others' significant accomplishments, nurture the development of colleagues in various stages of their careers, and to develop collaborations and, most importantly, friendships. I joined the group when it was barely a few years old, and have enjoyed attending its sessions and meetings ever since.

At the AAG's last annual meeting in Boston last year, an informal group gathered to discuss ways in which we could celebrate the GSG's 30th Anniversary. Ideas included a reunion, field trip, and special sessions at the AAG Annual Meeting this coming March. All of these ideas are moving ahead, and I really hope you will join us at the AAG meeting in Las Vegas. In addition to these projects, we agreed to launch a fund raising campaign to build the endowment of the GSG. I am writing to ask you to consider donating to this campaign.

As you might know, the GSG's budget is supported primarily by annual member dues. Several years ago we had a very successful photo CD project that helped build our cash reserves, which we used to establish an endowment of \$8,000 within the Mel Marcus Fund. The interest on this endowment is used to help pay a part of the costs of the GSG student awards. We would like to grow the GSG's endowment to cover all of the awards costs. This would be a major achievement for the GSG, allowing us to continue keeping member dues at a minimal level.

In recognition of the GSG's 30th Anniversary I would like to invite you to make a contribution to the GSG Endowment. I know these are challenging economic times for many, but if most of our members contributed \$50 or even \$100, and many of our student members contributed \$20, we could build an endowment that would help ensure the future health of the GSG awards program that has been so instrumental in recognizing and encouraging our students and their work.

If you are able to make a contribution and join the ranks of those who have already donated, please fill out the form attached below (end of newsletter) and send or fax it to the AAG. We will announce the total amount raised at the Anniversary Celebration at the AAG Annual meeting in Las Vegas. I look forward to this moment, as I hope to report to you on a very successful fund raising campaign.

Many thanks for your support of the GSG.

Jon Harbor
Geomorphology Specialty Group Advisory Board

UPCOMING CONFERENCES

2009 AAG MEETING

The 2009 Annual Meeting of the AAG will be held in Las Vegas, NV March 22-27. Highlights include:

Geomorphology Specialty Group Business Meeting
Tue. (3/24); 7:00 - 8:00 PM

GSG 30th Anniversary Reception, Tue., (3/24) 8:30-10:30 PM

Taylor-Francis/Routledge Distinguished Lecture on Geomorphology and Society, Wed., (3/25); 11:50 AM - 12:50 PM

Physical Geography Reception, Wed. 3/25; 9:00-11:00 PM

Bus Trip to Death Valley National Park (sponsored by the Geomorphology Specialty Group as part of the 30th Anniversary celebration). Norman Meek (CSU San Bernardino) has organized a one day trip of scenic Death Valley and nearby Tecopa basin. The trip will visit some of the most popular visitor locales, including Badwater, the Devil's Golf Course, Zabriskie Point and the Visitor's Center, as well as many lesser known sites. Please bring a coat, hat, field shoes and camera, and be prepared for both hot and cold weather. The trip price includes the entrance fee, a box lunch and soft drinks. Please eat breakfast before arriving for a prompt 0700 departure. The bus should arrive back at the hotel by dusk.

2009 Sessions sponsored by the GSG:

Sunday 3/22

1140 Sedimentary Perspectives on Paleoenvironmental Change: Part 1.
1:00 PM - 2:40 PM

1237 Flow and sediment transport processes
3:10 PM - 4:50 PM

Tuesday 3/24

3145 Geomorphology Specialty Group Graduate Student Paper Competition I
8:00 AM - 9:40 AM

3245 Geomorphology Specialty Group Graduate Student Paper Competition II
10:10 AM - 11:50 AM

3432 GIS and Geomorphology (I)
1:00 PM - 2:40 PM

3532 GIS and Geomorphology (II)
3:10 PM - 4:50 PM

3605 The Geomorphology Specialty Group After 30 Years: Looking Back, Looking Forward
5:20 PM - 7:00 PM

3705 Geomorphology Specialty Group Business Meeting 7:00 PM - 8:00 PM

GSG 30th Anniversary Reception 8:30-10:30

Wednesday 3/25

4146 Treeline Ecotones I: Geomorphology and Soils 8:00 AM - 9:40 AM

4246 Treeline Ecotones II: Spatial Variability and Detection 10:10 AM - 11:50 AM

4209 What is an NSF GK-12 Grant and How Would Getting One Help Me and My Department?
10:10 AM - 11:50 AM

4346 Taylor-Francis/Routledge Distinguished Lecture on Geomorphology and Society
11:50 AM - 12:50 PM

4446 Human Impacts on Watershed Processes 1 - Geochemistry, Water Quality, and Ecological Processes 1:00 PM - 2:40 PM

4546 Human Impacts on Watershed Processes 2 - Watershed Restoration and Management 3:10 PM - 4:50 PM

4646 Human Impacts on Watershed Processes 3 - Hydrological and Geomorphic Processes 5:20 PM - 7:00 PM

4603 Poster Session: Land and Water
5:20 PM - 7:00 PM

Physical Geography Reception 9:00-11:00

Thursday 3/26

5140 Fluvial Geomorphology I
8:00 AM - 9:40 AM

5240 Fluvial Geomorphology II
10:10 AM - 11:50 AM

5440 Fluvial Geomorphology III
1:00 PM - 2:40 PM

5540 Soils, Sediments, and Geoarchaeology I
3:10 PM - 4:50 PM

5603 Poster Session: Geomorphology and Coastal and Marine
5:20 PM - 7:00 PM

5640 Soils, Sediments, and Geoarchaeology II
5:20 PM - 7:00 PM

Friday 3/27

6140 Soils, Sediments, and Geoarchaeology III
8:00 AM - 9:40 AM

6240 Soils, Sediments, and Geoarchaeology IV
10:10 AM - 11:50 AM

6248 Hurricanes VI: Geomorphic Impacts and Paleotempestology
10:10 AM - 11:50 AM

Full Program Schedule at
<http://aag.org/annualmeetings/2009/index.htm>

**BINGHAMTON GEOMORPHOLOGY SYMPOSIA,
2009-2012, AND CALL FOR PROPOSALS FOR 2013**

The topics for the next 4 Binghamton Geomorphology Symposia have been determined by the Steering Committee of the Symposium Series. Dates are still "in flux", until football schedules (!) for Virginia Tech and South Carolina are released for 2009 and 2010, but assume that each meeting will be held on a Friday-Sunday morning in October of the respective year. The venues and topics for the next four years are:

2009 - Geomorphology and Vegetation: Interactions, Dependencies, and Feedback Loops

October 2 to 4 or 9 to 11, 2009 - Virginia Tech - Blacksburg, Virginia

Hosted By: Dr. W. Cully Hession & Dr. Tess M. Wynn, Biological Systems Engineering, Virginia Tech, Dr. Joanna C. Curran, Civil and Environmental Engineering, University of Virginia, and Dr. Lynn M. Resler, Geography, Virginia Tech. For further information, contact Cully Hession at chession@vt.edu.

2010 - Geospatial Technologies and Geomorphological Mapping

October, dates to be specified - University of South Carolina - Columbia, SC

Hosted By: Dr. Allan James, Geography, University of South Carolina; Dr. Stephen Walsh, Geography, University of North Carolina; and Dr. Michael Bishop, Geography-Geology, University of Nebraska-Omaha. For further information, contact Allan James at ajames@sc.edu

2011 - Zoogeomorphology and Ecosystem Engineering

October, dates to be specified - University of South Alabama - Mobile, AL

Hosted By: Dr. David Butler, Geography, Texas State University-San Marcos, and Dr. Carol Sawyer, Earth Sciences, University of South Alabama. For further information, contact David Butler at db25@txstate.edu

2012 - Isotopes in Geomorphology

October, dates to be specified - Binghamton University, Binghamton, NY

Hosted By: Dr. Paul Bierman, Geology and Natural Resources, University of Vermont; Dr. Arjun Heimsath,

Earth Exploration, Arizona State University; Dr. Peter Knuepfer, Geology, Binghamton University (SUNY); and Dr. Kyle Nichols, Geology, Skidmore College. For further information, contact Pete Knuepfer at knuepfr@binghamton.edu

Finally, the Steering Committee is happy to receive proposals for the Binghamton Symposium to be held in 2013. Information on proposing a Binghamton Symposium can be found at:
<http://www.nicholas.duke.edu/geomorphology/binghamton.html#committee>

We look forward to seeing you at these future Binghamton Geomorphology Symposia!

- David Butler, Steering Committee Chair

**7TH INTERNATIONAL CONFERENCE ON
GEOMORPHOLOGY**

Melbourne, 6-11 July 2009

Ancient Landscapes - Modern Perspectives

www.geomorphology2009.com

(see advert. back of this issue)

The scientific program will accommodate all aspects of geomorphology, including:

- River Management
- Landscapes and geomorphic processes in drylands
- Ancient landforms and regolith
- Fire and geomorphology
- Global environmental change and geomorphology
- Landscape connectivity
- Applications of long-term chronometric methods, including cosmogenic isotopes
- Landscape and process modeling
- Coastal geomorphology
- Hillslopes and mass movement
- Applied and urban geomorphology
- Quaternary and glacial geomorphology and dating
- Karst geomorphology
- Geomorphology and archaeology
- Geomorphology and ecology
- Planetary geomorphology

A wide range of field trips will be offered for delegates to experience the diversity of Australian and New Zealand landforms. One-day mid-conference field trips will be offered, as well as longer pre- and post-conference trips.

Special Sessions and Pre-Conference Field Trip at the 7th International Conference on Geomorphology

The IAG's working group on Planetary Geomorphology will be hosting special sessions and a pre-conference field trip at the 7th International Conference on Geomorphology (July 2009)
<http://www.geomorphology2009.com/>

Various systems of landforms and their generative processes can best be understood in a full planetary context. This session will consider the forms and processes for cosmogenic (impact-generated), endogenic (tectonic and volcanic), and endogenic (aeolian, hillslope/mass movement, fluvial, coastal/lacustrine, glacial and periglacial) landscapes of the solid-surface objects in the solar system, including those features of Earth that serve as the analogues for understanding their extraterrestrial counterparts. Relatively recent planetary mission discoveries include volcanic, tectonic, and aeolian landscapes on Venus; aeolian, fluvial, hillslope/mass movement, lacustrine, coastal, glacial and periglacial landscapes on Mars; active volcanism on Io; aeolian, lacustrine, and fluvial-dendritic landscapes on Titan; and cosmogenic landscapes on these and many more. All of these phenomena provide the opportunity to extend the methodology of geomorphological inquiry to make it a science of Earth-like planets, both in this solar system and in those currently being discovered.

(Information originally submitted by: Mary Bourke and Vic Baker; Fall 2008)

NEW BOOKS

Volume 4 of "The History of the Study of Landforms" published. Last December (08), volume 4 of "*The History of the Study of Landforms or the Development of Geomorphology*" was published by The Geological Society of London. Volume 4 is titled "*Quaternary and Recent Processes and Forms (1890-1965) and the Mid-Century Revolutions*" and is edited by T.P. Burt, R.J. Chorley, D. Brunnsden, N.J. Cox and A.S. Goudie. The previous three volumes edited mainly by the late Dick Chorley were published in 1964, 1973 and 1991. Although the first three volumes were written with the late Robert Beckinsale and A.J. Dunn, Chorley decided that Volume 4 should best be produced by topical specialists. Thus, he invited a number of individuals to prepare separate chapters. The resulting volume, which totals 1027 pages, contains 20 chapters, divided into five parts: 1. Geological Controls, 2. Fluvial Processes and Landforms, 3. Glacial Processes and Landforms, 4. Other Regional Processes and Landforms, and 5. The Mid-Century Revolutions. In addition there are short sections paying tribute to Chorley and Beckinsale as well as one labeled Prologue that sets the stage. All authors

of the substantive chapters hail from the UK (20) except for Roger McLean (Australia) and David Stoddart (USA) co-authors with Tom Spencer of Chapter 18, Coral Reefs; Hugh French (Canada) author of Chapter 13, Periglacial Processes and Forms; and Jesse Walker (USA) author of Chapter 17, Coastal Landforms.

-Jess Walker, LSU

Fluvial Hydraulics; Oxford University Press

Fluvial Hydraulics, the successor to Larry Dingman's *Fluvial Hydrology* (Freeman 1984) has just been published by Oxford University Press. The back cover description follows:

"Bridging the gap between qualitative and quantitative descriptions of natural rivers, *Fluvial Hydraulics* provides a sound understanding of water and sediment flows in natural rivers. This understanding is essential for modeling and predicting hydrologic and geomorphologic processes, erosion, sediment transport, water supply and quality, habitat management, flood hazards, and river restoration. The book will be especially valuable in providing a firm scientific basis for the growing field of river restoration. It bridges the gap between the highly quantitative mechanics-based civil-engineering approach to stream hydraulics and the more qualitative treatments of fluvial geomorphology typical of earth-sciences and natural-resources curricula. Many concepts are illustrated using measurements of natural river flows.

The book is specifically designed for upper-level students and practitioners who are interested in a fundamental understanding of river behavior. An introduction to the history of fluvial hydraulics and an overview of the morphology and hydrology of rivers provide the context for the rest of the text. A sound understanding of water properties, including turbulence, is developed via a series of simple thought experiments. The bases of the equations that are used to describe and predict river flows are systematically presented, including dimensional analysis. Subsequent chapters build logically on these foundations, covering velocity distributions, new insights to the central topic of flow resistance, the magnitudes of forces in natural river flows, the principles of conservation of energy and momentum, the prediction of water-surface profiles, the principles of flow measurement, and the movement of flood waves. The book concludes with an up-to-date treatment of the measurement, mechanics, and geomorphic aspects of sediment transport.

S. Lawrence Dingman is Professor Emeritus of Earth Sciences at the University of New Hampshire. He is the author of *Physical Hydrology* (2002) and *Fluvial Hydrology* (1984) and more than 40 scientific papers on hydrology and river hydraulics."

**LSU BOYD PROFESSOR JESSE WALKER
RECIPIENT OF FRANCOIS EMILE MATTHES
AWARD OF THE AAG CRYOSPHERE
SPECIALTY GROUP**

Jess Walker has been selected as the 2009 Matthes Awardee for his long and distinguished career and litany of accomplishments in cryospheric science. The Francois Emile Matthes Award is presented by the AAG Cryosphere Specialty Group. This award was first presented in 2007 and is given to meritorious individuals for their Lifetime Time Achievements in Cryospheric Science. (from Del Levia Chair, Cryosphere Specialty Group)



GEOMORPHOLOGY 2009

Hosted by



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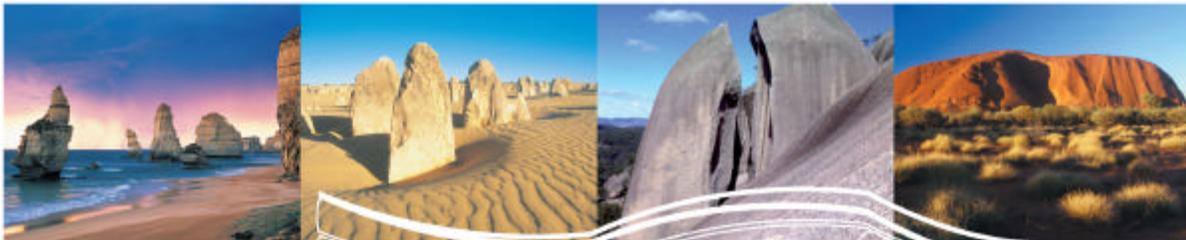
International Association of Geomorphologists/
Association Internationale des
Geomorphologues (IAGAGZ)

7th International Conference on **Geomorphology** (ANZIAG) **Ancient Landscapes – Modern Perspectives**

6-11 July 2009

Melbourne Convention and Exhibition Centre, Melbourne, Australia

www.geomorphology2009.com



Important Dates

Abstract Submission Deadline – 9 February 2009

Early –Bird Registration Deadline – 15 April 2009

The International Association of Geomorphologists holds its International Conference every four years. The IAG International Conference series provides the major forum for the global community of geomorphologists and scientists in related disciplines.

The Seventh IAG Conference on Geomorphology (ANZIAG) in Melbourne in July 2009 will be on the theme 'Ancient Landscapes – Modern Perspectives'. For the first time in the history of the International Association of Geomorphologists the International Conference will be held in the Southern Hemisphere, on an ancient piece of Gondwanaland.

For a full list of session theme please go to the website
www.geomorphology2009.com

Program

The Organising Committee is pleased to announce that the following plenary speakers will be presenting at the Geomorphology Conference 2009.

Prof Andrew Goudie, President of the IAG

Prof Jon Nott, James Cook University of North Queensland

Prof Monique Fort, Université Paris Diderot

Prof John Chappell, Australian National University.

Optional Conference Dinner

Flemington Racecourse, the home of the famous Melbourne Cup Carnival, will be the venue for the Dinner - one of the social highlights of the Conference. Guests will be treated to a sumptuous three course meal and fine Australian wines with the twinkling backdrop of the Melbourne skyline by night including guest speaker Brad Pillans.

Field Trips

A wide range of field trips will be offered for delegates to experience the diversity of Australian and New Zealand landforms. One-day mid-conference field trips will be offered, as well as longer pre- and post-conference field trips. For more information on the field trips please see the Conference website www.geomorphology2009.com.au

Sponsorship and Display Area

Various levels of sponsorship complemented by a comprehensive display area will be held in conjunction with the Conference. The display area will cover a wide range of products and services in the field of Geomorphology. Any organisation or companies wishing to participate as a sponsor or promote their products/services within the display area are encouraged to contact the Conference Managers.

Contact Us

Geomorphology 2009 Conference Managers

Tour Hosts Pty Ltd



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Earth Surface Processes and Landforms

HAVE YOU READ THESE SPECIAL ISSUES?

RECONSTRUCTING ICE-SHEET DYNAMICS FROM SUBGLACIAL SEDIMENTS AND LANDFORMS

(Volume 33 Issue 4)

Issue Edited by:

Colm Ó Cofaigh and Chris R. Stokes

INCLUDING THE FOLLOWING PAPERS:

Geomorphology of the onset area of a paleo-ice stream, Marguerite Bay, Antarctic Peninsula

John B. Anderson, Lisa Oakes Fretwell

Geological constraints on Antarctic palaeo-ice-stream retreat

Colm Ó Cofaigh, Julian A. Dowdeswell, Jeffrey Evans, Rob D. Larter

Glacial geomorphology of the Central Arctic Ocean: the Chukchi Borderland and the Lomonosov Ridge

Martin Jakobsson, Leonid Polyak, Margo Edwards, Johan Kleman, Bernard Coakley

WATER RESOURCES VIRTUAL SPECIAL ISSUE

A collection of **Water Resources hot papers** compiled in an **online special issue**

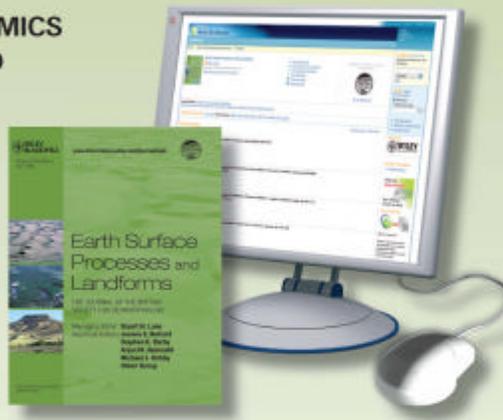
INCLUDING THE FOLLOWING TOPICS:

- Watershed Scale Processes
- Vegetation in Rivers
- River Instability
- Flooding and Floodplain Processes

To access this special issue, please visit:

www.interscience.wiley.com/espwater

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 WILEY-
BLACKWELL

Geomorphology Specialty Group 30th Anniversary Campaign Contribution

In recognition of the 30th Anniversary of the Geomorphology Specialty Group, please accept the following contribution towards the Geomorphology Specialty Group account within the Mel Marcus Fund.

Name: _____

e-mail: _____

Address: _____

Check enclosed for \$ ____
(make check payable to AAG, indicate GSG-MMF on the memo line - bottom left corner)

Charge \$ _____

to Visa/MC # _____ exp. ____ / ____

Your Name: _____

Signature: _____

Mail or fax (202-234-2744) this form to:
Candida Mannozi
Association of American Geographers
1710 16th Street NW,
Washington, DC 20009.

Geomorphorum is issued twice a year by the Geomorphology Specialty Group of the Association of American Geographers. The purpose of this newsletter is to exchange ideas and news about geomorphology, and to foster improved communication within our community of scholars. The editor of *Geomorphorum* welcomes news, comments, and suggestions from all members of the geomorphological community. Issues of *Geomorphorum* are posted on the website of the GSG; new issues are announced through the Geomorphlist listing service currently maintained by David Wilkins at Boise State University.

