

GEOMORPHORUM

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

2013, Issue No. 1.1

Melinda Daniels, Editor

TABLE OF CONTENTS

Specialty Group Officers	1
Minutes from 2012 AAG GSG Meeting	2
2013 GSG Sessions Guide	3

SPECIALTY GROUP OFFICERS 2012-2013

Chair

Robert Pavlowsky, Missouri State University
bobpavlowsky@missouristate.edu

Secretary-Treasurer

Melinda Daniels, Kansas State University
mddaniel@k-state.edu

Awards Committee Chair

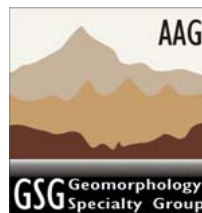
Chris Renschler, University at Buffalo
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Advisory Board

Mark Fonstad, University of Oregon
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Dan Royall, University of North Carolina-Greensboro
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Scott Lecce, East Carolina University
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<http://www.aag-gsg.org/geomorphorum.shtml>

2012 GSG MINUTES

MINUTES OF THE 2012 GSG BUSINESS MEETING New York City, February 27, 2012

Mark Fonstad, Chair
Robert Pavlowsky, Secretary-Treasurer

Mark Fonstad called the meeting to order at 7:05 pm

General Announcements

From the Specialty Group Chairs Meeting

Attendance for the 2012 meeting was about 8,500 (registered). There is concern that participation at regional meetings is dropping in some divisions. The AAG asked for input from the SGs on whether or not SG meetings should be held at regional division meetings in the Fall. The GSG did not think that was a good idea. However, GSG could sponsor field trips (Pat McDowell) and special sessions (George Malanson) at regional meetings.

Taylor-Francois/Routledge Distinguished Lecture on Geomorphology and Society

Frank Magilligan, Dartmouth College was thanked for his Geomorphology and Society Lecture on “Geomorphic and hydrologic adjustments in disturbed watersheds: The response and recovery of New England watersheds to floods, dams, and land use/land cover change.”

Physical Geography Reception

There was no reception planned for the NYC meeting. The GSG chair will contact the Climatology Specialty group about planning one for the 2013 meeting in LA since their group did not plan the meeting as expected.

Special Group Reports

Approval of Minutes

A motion to approve the minutes for the 2011 business meeting as published in Geomorphorum was made, seconded, and passed by acclamation.

Treasurer Report

The incoming account balance was \$2,347.10 on July 31, 2010. Since then, there was \$5,307.23 income from membership dues (\$2744), Marcus Fund interest (\$2313.13), and two newsletter advertisements (\$250). During the same period, there were \$2,674.70 expenses to IAG Dues-2011 (\$1154.70), keynote speaker registration (\$20), and student awards (\$1500). A net income of \$2,632.63 accrued since July 31, 2010. The official balance in the GSG account reported by the AAG on January 31, 2012 was \$4,979.63. However, the account balance pending subtraction of unrecorded expenses is predicted to be approximately \$2,350.

GSG Website Report

Report by Michael Urban, University of Missouri-Columbia-He was not in attendance, but sent the following questions to the GSG hoping to generate discussion and input related to the question “who have we built the

website to serve”? : (i) What is the ideal purpose of the GSG website and how could we improve it to meet these expectations?; (ii) Do we want to increase the level of content?; (iii) Do we want to pay an undergrad to help manage it?; (iv) Do we want to manage it as an outreach tool to the public?; and (v) Beyond hosting basic information and Geomorphorum, what else can it provide for the GSG membership? Prior to the next GSG business meeting at LA in April 2013, the next chair (Pavlowsky) and Dr. Urban will address these question and formulate actions to present to the membership.

New Business

New Student Poster Competition

Melinda Daniels, awards committee chair, suggested that the GSG should start an organized student poster competition for the GSG. The GSG agreed and passed a motion to support the initiation of a student poster competition at LA with awards.

IAG Dues

The question was raised about whether or not the annual GSG dues to the IAG of \$1155 were worth it. The GSG was not sure of the benefit of the dues payment. Scott Burns (GSA rep) was in favor of the supporting the IAG. Presently, the USA dues are split between the GSA and AAG. A motion was passed to contact IGU/AGU about sharing IAG dues. Mark Fonstad said he would follow up in this at upcoming meeting. The GSG also expressed interest in potentially co-sponsoring an IGU meeting in the USA.

Field Trips

Allan James asked if there was interest in a geomorphology and water resources field trip for LA meeting. Next year's chair agreed to contact the WRSG to see if a trip can be planned.

Gilbert Award Plaque

Melinda D. had a new plaque made for the GSG's Gilbert Award.

Passed Motions

- 1) Motion by Mark Fonstad: Accept 2011 AAG business meeting minutes
- 2) Motion by Mark Fonstad: SG meetings should not be required to be held at regional division meetings.
- 3) Motion by Melinda Daniels: The active nomination period will be extended to 5 years for Marcus Award.
- 4) Motion by Melinda D: Awards committee will initiate, using best judgement, an illustrated poster competition with awards for students in L.A.
- 5) Motion by Mark F: GSG Secretary-Treasurer shall approach IGU/AGU about splitting IAG dues for geography
- 6) Motion by Mark F. passed to adjourn at 8:15 pm

Announcements

Journal requests for contributions

- 1) Physical Geography by Carol Harden
- 2) Geomorphology by Dick Marston
- 3) Progress in Physical Geography by George Malanson
- 4) Aolian Research by Jeff Lee

5) Annals of the Association of American Geographers by Mark Fonstad

Upcoming Meetings

Binghamton Symposium will be in Jackson, WY, Sept 21-23.

Appointments

Awards Committee. Inci Güneralp from Texas A & M University was appointed as the new member of the committee.

Secretary-Treasurer. Melinda Daniels of Kansas State University was nominated, seconded, and approved unanimously as the next Secretary-Treasurer.

Awards

G.K. Gilbert Award

Inci Güneralp and Bruce L. Rhoads for "Influence of floodplain erosional heterogeneity on planform complexity of meandering rivers," *Geophysical Research Letters* Vol. 38, L14401. Citation by Melinda D. Daniels.

Melvin Marcus Award

David R. Butler. (Texas State University). Citation by George P. Malanson.

Best Student Paper Awards

MS-Level: Andrew DeWitt, Department of Geology, Geography, and Planning, Missouri State University, for his presentation "Channel Morphology Regime Equations for the James River, Southwest Missouri Ozarks" Advisor: Robert T. Pavlowsky

PhD-Level: John Gartner, Department of Earth Science, Dartmouth College, for his presentation, "Dam Removal on the Ashuelot River, New Hampshire: a natural scale experiment in sandy and coarse-grained channels" Advisor: Frank Magilligan

Reds Wolman Student Research Award

MS-Level: Mitchell Fyock, University of Montana, *Assessing the Use of Existing Geomorphological Mapping Systems for High Mountain Environments in the United States*

PhD-Level: Rebecca Manners, Utah State University, *Multi-Scalar Geomorphic and Vegetative Feedbacks in the Colorado River Basin*

GSG Officers for 2013 AAG Meeting in Los Angeles

Robert T. Pavlowsky, Missouri State University, Chair
Melinda Daniel, Kansas State University, Secretary-Treasurer

Awards Committee

Chris S. Renschler, University of Buffalo, Chair
Donald Friend, Minnesota State University- Mankato, member-2nd year
Inci Guneralp, Texas A&M University, member-1st year

Advisory Committee (Past Chairs)

Mark Fonstad, University of Oregon/Alice Turkington, University of Kentucky (2012)
Dan Royall, University of North Carolina-Greensboro (2011)
Scott Lecce, East Carolina University (2010)

Adjournment

Thanks was given to Mark Fonstad for his service as GSG Chair

Motion passed to adjourn at 8:15 pm

Respectfully Submitted by Robert T. Pavlowsky, November 17, 2012

2013 GSG Sessions Guide

4455 *Taylor-Francois/Routledge Distinguished Lecture on Geomorphology and Society*

Friday at 12:40 pm, Grand Ballroom, Salon 4, LA Hotel, Level 2.

Thomas Dunne, Bren School of Environmental Science & Management, University of California-Santa Barbara

TITLE: Risk to Floodplain Communities from River Channel and Floodplain Evolution

The floodplains of lowland rivers comprise productive but hazardous landforms used by hundreds of millions of people for settlement, food production, industrial development, and ecosystem conservation. They are characterized by great complexity and dynamism of form and inundation regime. The most diverse valley floors are associated with migrating, flooding rivers, but many managed floodplains have been radically simplified. Understanding the origin of this dynamic complexity provides a basis for exploiting the desired services of such environments while minimizing risks to people. The foremost driver of floodplain landform construction is the tendency for rivers to shift laterally through bend migration and also to form new channels through floodplain incision. Most research into these processes has emphasized the role of channel hydrodynamics on bend growth, neck cutoff, and oxbow lake production. However, the vulnerability of floodplain surfaces to chute incision, which depends on channel curvature, floodplain sediment texture, floodplain gradient, and vegetation cover, limits channel sinuosity and alters the average production rate and length of oxbow lakes. The form and rate of sedimentation in oxbow lakes and thus the length of time they survive as open water bodies before filling also depends on the initial diversion angle of the cutoff (and therefore, on average, the sinuosity of the channel), and the relative supplies of bed material and wash load. The multifaceted nature of floodplain evolution, involving hydroclimatic, hydrodynamic, geotechnical, and biotic processes as well as the societal imperative for

understanding the value and hazards of floodplain environments creates an attractive focus for distinctive contributions from physical geography.

All Other GSG Sponsored Sessions:

Tuesday, 4/9/2013

1136 Environmental Change and Human Adaptation in High Asia (I) is scheduled on Tuesday, 4/9/2013, from 8:00 AM - 9:40 AM in Laguna Parlor 3044, Westin, 30th Floor

1236 Environmental Change and Human Adaptation in High Asia (II) is scheduled on Tuesday, 4/9/2013, from 10:00 AM - 11:40 AM in Laguna Parlor 3044, Westin, 30th Floor

1420 Fluvial Legacies: Enduring Influences of Channel Changes is scheduled on Tuesday, 4/9/2013, from 12:40 PM - 2:20 PM in Sacramento, Westin, Level 2

1520 Progress in Physical Geography Session: Missing Links is scheduled on Tuesday, 4/9/2013, from 2:40 PM - 4:20 PM in Sacramento, Westin, Level 2

Wednesday, 4/10/2013

2134 Riparian Zones: Aquatic and Terrestrial Interactions is scheduled on Wednesday, 4/10/2013, from 8:00 AM - 9:40 AM in Laguna Parlor 3024, Westin, 30th Floor

2230 Human Impacts on Watershed Processes is scheduled on Wednesday, 4/10/2013, from 10:00 AM - 11:40 AM in Santa Monica D, Westin, Level 3

2234 New Perspectives to Paleoenvironmental Change and Geoarchaeology I is scheduled on Wednesday, 4/10/2013, from 10:00 AM - 11:40 AM in Laguna Parlor 3024, Westin, 30th Floor

2430 Fluvial Geomorphology I is scheduled on Wednesday, 4/10/2013, from 12:40 PM - 2:20 PM in Santa Monica D, Westin, Level 3

2434 New Perspectives to Paleoenvironmental Change and Geoarchaeology II is scheduled on Wednesday, 4/10/2013, from 12:40 PM - 2:20 PM in Laguna Parlor 3024, Westin, 30th Floor

2530 Fluvial Geomorphology II is scheduled on Wednesday, 4/10/2013, from 2:40 PM - 4:20 PM in Santa Monica D, Westin, Level 3

2534 New Perspectives to Paleoenvironmental Change and Geoarchaeology III is scheduled on Wednesday, 4/10/2013, from 2:40 PM - 4:20 PM in Laguna Parlor 3024, Westin, 30th Floor

2630 Fluvial Geomorphology III is scheduled on Wednesday, 4/10/2013, from 4:40 PM - 6:20 PM in Santa Monica D, Westin, Level 3

Thursday, 4/11/2013

3107 Advances and Challenges in Digital Elevation Models I (Overview) is scheduled on Thursday, 4/11/2013, from 8:00 AM - 9:40 AM in Palos Verdes, Westin, Lobby Level

3207 Advances and Challenges in Digital Elevation Models II (Coastal) is scheduled on Thursday, 4/11/2013, from 10:00 AM - 11:40 AM in Palos Verdes, Westin, Lobby Level

3407 Advances and Challenges in Digital Elevation Models III (Geomorphology) is scheduled on Thursday, 4/11/2013, from 12:40 PM - 2:20 PM in Palos Verdes, Westin, Lobby Level

3507 Advances and Challenges in Digital Elevation Models IV (Remote Sensing) is scheduled on Thursday, 4/11/2013, from 2:40 PM - 4:20 PM in Palos Verdes, Westin, Lobby Level

3623 Advances and Challenges in Digital Elevation Models V (Illustrated Paper) is scheduled on Thursday, 4/11/2013, from 4:40 PM - 6:20 PM in San Jose, Westin, Level 2

Friday, 4/12/2013

4455 Taylor-Francis/Routledge Distinguished Lecture on Geomorphology and Society is scheduled on Friday, 4/12/2013, from 12:40 PM - 2:20 PM in Grand Ballroom Salon 4, The LA Hotel, Level 2. Speaker: Tom Dunne

4537 Aeolian Processes and Landforms is scheduled on Friday, 4/12/2013, from 2:40 PM - 4:20 PM in Laguna Parlor 3048, Westin, 30th Floor

4637 Aeolian Processes and Landforms II is scheduled on Friday, 4/12/2013, from 4:40 PM - 6:20 PM in Laguna Parlor 3048, Westin, 30th Floor

4828 Geomorphology Specialty Group Business Meeting is scheduled on Friday, 4/12/2013, from 7:30 PM - 8:30 PM in Santa Monica B, Westin, Level 3

Saturday, 4/13/2013

5123 Global environmental changes in mountain land-water-scapes is scheduled on Saturday, 4/13/2013, from 8:00 AM - 9:40 AM in San Jose, Westin, Level 2

5223 Global environmental changes in mountain land-water-scapes is scheduled on Saturday, 4/13/2013, from 10:00 AM - 11:40 AM in San Jose, Westin, Level 2

5423 Coastal Geomorphology is scheduled on Saturday, 4/13/2013, from 2:00 PM - 3:40 PM in San Jose, Westin, Level 2

5523 Legacy Sediment in the New World is scheduled on Saturday, 4/13/2013, from 4:00 PM - 5:40 PM in San Jose, Westin, Level 2

2013 AAG-GSG Student Paper Competition

Update from Awards Chair Chris Renschler

PhD Student Competition Schedule

Wednesday 4/10/2013:

1. PhD - Michael D. Luehmann - Michigan State University, #2176 Geomorphology and Physical Geography starting at 8:00 AM. **Time and Location: 8:20 am in Grecian, Biltmore.**

2. PhD - Derek J. Martin - University of Tennessee, #2134 Riparian Zones: Aquatic & Terrestrial Interactions starting at 8:00 AM. **Time and Location: 9:00 am in Laguna Parlor 3024, Westin, 30th Floor**

3. PhD - Katie H. Costigan - Kansas State University, Department of Geography, Paper Session: Fluvial Geomorphology III starting at 16:40 PM. **Time and Location: 5:20 pm in Santa Monica D, Westin, Third Floor**

4. PhD - Sarah Praskievicz - University of Oregon, #2630 Fluvial Geomorphology III starting at 16:40 PM. **Time and Location: 5:40 pm in Santa Monica D, Westin, Third Floor**

Friday 4/12/2013:

5. PhD - Kathryn Nora Barnard - Portland State University, #4124 Geography of Wine -- New World 1 starting at 8:00 AM, **Time and Location: 8:30 am in Avalon, Westin, Third Floor**

6. PhD - Christy Swann - Texas A&M University, #4537 Aeolian Processes and Landforms starting at 14:40 PM, **Time and Location: 3:20PM in Laguna Parlor 3048, Westin, 30th Floor**

MA/MS Student Competition Schedule

Wednesday 4/10/2013:

7. MA - Genevieve Munsey* - San Francisco State University, #2430 Paper Session: Fluvial Geomorphology I starting at 12:40 PM. **Time and Location: 2:00 PM in Santa Monica D, Westin, Level 3**

Saturday 4/13/2013:

8. MS - Jay C Guarneri* - University of Arkansas at Monticello, #5508 Environmental Change: Remote Sensing starting at 16:00 PM. **Time and Location: 17:00 PM in San Bernadino Room, Westin Bonaventure**

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 Chris Houser at Texas A&M University

