



**Lewis and Clark's Week from Hell: May 14-20, 1805:  
A GIS-based Map Animation and Event Analysis  
Presented by Dr. David Miller**

**Central New York Association of Professional Geologists  
and  
Central New York Society of Land Surveyors**

Two hundred years ago, as the Corps of Discovery worked its way west on Upper Missouri River, the Expedition passed through what is today the western end of Fort Peck Lake, Montana. If the Expedition had a "Week from Hell," this was where it happened. Riverbanks collapsed, narrowly missing the small boats. A sudden squall nearly capsized the white pirogue; three men almost drowned, and gear was lost or damaged. The men had close calls with grizzly bears, rattlesnakes, and sparks from their campfire started a wildfire that nearly deposited a burning tree atop the Captains' teepee.

Based on data gathered during a 1400 mile solo kayak expedition on the Upper Missouri, combined with GIS-generated maps and satellite imagery, we will view a day-by-course track animation to assist our understanding of the "Week from Hell." Besides a close order analysis of what transpired, we will learn how elements of the area's geology contributed to the difficulties, see what current-day adventurers can learn from the Expedition's daily accounts, and relate this information to current landscape of this still very remote section.

Presenting March's talk is Dr. David Miller, Professor in the Geography Department and Director of the GIS Lab at SUNY Cortland. His research interests are GIS-based 3D landscape modeling, real-time integration of

GPS with GIS, and environmental and historical applications for GIS-based mapping.

For the last two summers Dr. Miller has been solo paddling the Missouri River. This summer, in time for the Lewis and Clark Bicentennial celebration, he will complete the final 600-mile leg of his trip from Great Falls, Montana to St. Louis.

**Meeting logistics:** The meeting will take place on Thursday, March 18, 2004 at the Genesee Inn, 1060 East Genesee Street, Syracuse, NY. A social hour will be held at the Inn from 5:30 p.m. to 6:30 p.m., followed by a buffet dinner. The dinner will start at 6:30 p.m. and our featured speaker, Dr. David Miller of SUNY Cortland, will begin his program at 7:30 p.m. The cost of dinner is \$20 for members, \$22 for non-members, and \$15 for student members. Please RSVP by Monday, March 15, 2003 to Bonnie at Parratt-Wolff via e-mail at [bolney@pwinc.com](mailto:bolney@pwinc.com) or 437-1429.

**DIRECTIONS:** To get to the Genesee Inn, take the Route 690E exit from Route 81S. Take the first exit off of 690 (Teal Avenue) and turn right at the bottom of the off-ramp. Go approximately 1 mile (crossing Erie Boulevard) and turn west (right) onto Genesee Street. The inn is on the south side of the street, between Crouse and University Avenues.

## Calendar

February 26, 2004	CNYAPG Monthly Dinner Meeting, O'Brien & Gere Office, Syracuse, N.Y. Karen A. Peluso, <b>Introduction to the EPA Triad Approach to Site Characterization</b> . From 5:00 to 6:00 p.m. free workshop regarding immunoassay training from 6:00 to 7:00 p.m. there will be a social hour, followed by dinner at 7:00 p.m. Our speaker's talk will begin at 7:30 p.m.
March 18, 2004	CNYAPG Monthly Dinner Meeting, Genesee Inn, Syracuse, N.Y. Dr. David Miller (SUNY Cortland). <b>Lewis and Clark's Week from Hell: May 14-20, 1805: A GIS-based Map Animation and Event Analysis The use of GPS in Retracing Lewis and Clarks Expedition</b> . From 5:30 to 6:15 p.m. there will be a social hour, followed by dinner at 6:15 p.m. Our speaker's talk will begin at 7:00 p.m.
April 19, 2004	HMPGA One-Day Workshop, Holiday Inn-Turf, Wolff Rd., Albany, N.Y. Jim Butler, Ph.D., P.G. (Kansas Geological Survey). <b>Advances in Hydraulic Testing for Improved Site Characterization: New Concepts, Field Methods, and Data Analysis Techniques</b> '. More detailed information (Date, cost, instructor abstract, Continuing Education Unit (CEU) information, short course outline

	and schedule, registration form, directions, etc.) is provided in the following web link: <a href="http://www.hmpga.org/Course.htm">http://www.hmpga.org/Course.htm</a>
April 2004	Annual CNYAPG Field Trip to Howes Caverns (further details will follow).
May 2004	CNYAPG Monthly Dinner Meeting, Syracuse, N.Y. Bill Kappel (USGS). <b>The hydrogeology and brines associated with Onondaga Valley and Onondaga Lake</b> (further details will follow).

### Our President's Voice –

Please remember to join us at the O'Brien & Gere offices in Syracuse on February 26<sup>th</sup> for an overview of the EPA's Triad Approach. The Triad Approach is a site investigation methodology being promoted by the EPA, USACE, and DOE. These agencies and other major environmental service providers rely on the use of field analytical technologies and flexible sampling plans to provide more accurate site data, with fewer trips to a site, at a lower cost.

This past weekend I gave a brief geology presentation to a local Cub Scout Pack in order for the boys to receive an achievement pin. It was rewarding for me (being an old scout), and I was amazed at how much the boys knew about geology, and their interest in the subject. I would urge all of you to become involved in local organizations (boy/girl scouts, schools, and other clubs) to make children (and parents) aware of geology. Ultimately they are the future of our profession, and some education now may be one avenue to forestall future impacts (read the following).

David Lay

### Closure of Geology Dept. at UCONN –

The following was abbreviated from an email circulated by HMPGA. As many of you may have already heard, the Geology Dept. at the University of Connecticut, Storrs is slated to be disbanded this fall. The faculty will be reassigned to other departments within the University and the University has said that

earth sciences will continue to be taught, just not through a centralized geology department. Furthermore, geology and geophysics would still be general education requirements

An online petition has been set-up for people interested in voicing their opposition to this. It can be accessed at: <http://www.PetitionOnline.com/102777/>. Once again, this serves as a stark wake-up call for all of us in the profession that we are doing a rather poor job of educating people outside our field about the value of our work (something that was noted as a reason for the Storrs closure). In fact, the interdisciplinary nature of geology itself makes it very difficult for us to keep up with the work of our fellow geologists. I am not sure what the immediate fix might be, but I do feel confident that it involves better communication and understanding within our own field, outside of our field, and with the public at large

How ironic that with all this free marketing by Hollywood (Jurassic Park, Armageddon, Dantes Peak, Volcano, Deep Core, etc.), geology is still under siege. What are we missing?

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**Membership news** – Please remember to renew your membership. A membership form is available on our website at [www.cnyapg.org](http://www.cnyapg.org)!



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