

Kickoff Meeting for the NMGIC Geospatial Education Committee

Friday March 21, 2008

Held at UNM in the Bandelier West, Conference Room

Next subcommittee meeting - Wednesday, April 23 – 1:30 to 3:30
(Note, NMGIC Spring workshop and meeting - April 24-25)

Attendees: Amy Ballard, CNM; Eric Evans, Holmans; Paul Zandbergen, UNM; Cheryl Glauner, West Mesa High School; Keary Howley, SJ College, Kim Seidler, UNM; Don McTaggart, UNM; David Jordan, Intera; Chandra Bales, EDAC; Shirley Baros, EDAC; Gathen Garcia, PNM/NMGIC; Larry Spear, DGR/NMGIC, Christina Noftsker, Office of the State Engineer/NMGIC. (see the end of the minutes for people unable to attend, but interested).

Agenda:

- 1. Goal Setting –**
 - a. Silent idea writing, then each member presented ideas that were written on the flip-chart. Then lump the ideas into categories that we can prioritize.**
 - b. Who else is working on GIT in Education? Can we partner with the?**
 - c. What pitfalls have others encountered that we can avoid?**
- 2. Ground Rules – how often to meet, elect co-Chairs, etc.**
- 3. Workplan – identify Action Items.**

Summary - We got through the first phase of goal setting – we wrote down a good number of ideas and at the same time found out a lot about what other people are doing in the world of geography/GIT education in the state (item 1b, but did not discuss partnering). We ran out of time before we could work out all the Ground Rules and Action Items. So we tabled these steps for the next meeting.

David Jordan volunteered to be a co-chair if another person could share the responsibilities with him. Gathen volunteered Denise Chavez from SIPI and subsequently contacted her. Denise agreed to Chair the committee with David.

Develop Geospatial Learning Units for classroom

- GIS
- Remote Sensing (RS)
- In-class demos
 - Host GIT learning units/demos on website
- Earth as Art (RS Images) - <http://earthasart.gsfc.nasa.gov/index.htm>
 - Use Earth as Art as a way to capture students' interest

Curriculum templates

- Form curriculum coherence across school levels K-12th grade and into the college level.
 - transparency / transfer –sharing of curricula to assure consistency/continuity between programs
- Curricula – What should we be teaching? (see report: Learning to think spatially – put on the future website)
- Would like to see a future Joint UNM / NMSU Ph.D
- UNM is working toward Certification Program.

GRADES 5-12 GIS Support

- Geo Coaching
- Data Gathering
- GIS Day
- Speakers to classrooms
 - West Mesa – Engineering / Architecture / CAD – Cheryl Glowner (check spelling)
 - 6th Grade – Sandia Program (Semester Long) 34 kids, after school program
 - 9th – 12th Grades – Mentoring by business in the community

K-12 Career Pathways that include GIT

This would be writeups/descriptions of what kind of careers you can look forward to if you have, for instance, a certificate in GIS on top of a bachelors in Archaeology. Or a geography degree, or a CNM's GIS and Geomatics certificates. One thought is to have NMGIC Board members and members of the Geospatial Education Committee write up their own Biographies with an eye toward explaining how GIS training got them where they are or how a student today would prepare himself/herself to get your job tomorrow.

Cooperation between Institutions

- Certificate program (UNM, CNM, San Juan etc.)
- Review CNM certificate curriculum. Correlation with other programs.
- “Cross pollination” between programs (integrate geospatial into programs)
 - Science, Engineering
- Provide clearinghouse / Mutual Assistance toward Geo Education.

Thinking Spatially

- Prelude to intelligent use of GIT – How can teachers including spatial thinking in their everyday curricula? For ex. Using Google Earth to do a Book report.
- Delivery of geospatial concepts to students
- Promotion of Geospatial programs - PR effort, NMGIC, Speak / Table @ NMGIC, other conferences.

- Get school programs on FAFSA interest form
 - One committee member noted that a search for Surveying programs does not yield CNM when one fills out the Financial Aid forms.
- Identify internship opportunities for APS instructors (funded by APS via state, Carl Perkins Grants – Teachers can do internships in the summer – find out more)
- CTE - (what is CTE -... ?)

Resources/Links

[Denver's Geospatial Industry Workforce Information System](#) (GIWIS, pronounced - gee-whiz),

On website – put a list of all the geography higher education offerings, potentially with a contact person for each or a testimonial from someone who got a degree from that institution and is now working.

CNM

SIPI – [Geospatial Information Technologies Program](#)

UNM

[Geography Dept](#)

Engineering Dept - from [Julie Coonrod](#)'s course listing –

- [CE 547 GIS in Water Resources Engineering, Spring 08](#)

Economics Dept – Kate Krause

“Marketing Western Water: Can a Process-based GIS Improve Reallocation Decisions?” with O. P. Matthews, L. Scuderi, D. Brookshire, K. Gregory, S. Snell, J. Chermak, B. Cullen, and M. Campana. *Natural Resources Journal* .41(2): 329 – 371. (2001)

[Water Resources](#)

GIS in Public Health - [Pub. Health Methods & GIS](#)

SJ College - Geographic Information Science and Technology (GIST)

Link to [SJ College](#)

Eastern NM – anything?

Others...

Include on the Committee as interested people:

Kurt Menke, Rick Koehler, Gar Clarke, Tim O'Brien, Candace Bogart, Denise Bleakly, Rich Friedman, Amy Budge, all the NMGIC board members?

Barbara Nord (nord_b@aps.edu) Cibola High School Serri Dorn (serrid@aol.com) Valley High School Amy Ballard (aballard1@cnm.edu) Surveying CNM Michael Cranney (mcranney@cnm.edu) Director Geomatics CNM, Tony Trujillo (ttrujillo@holmans.com) CEO Holman's

... who else? John Lovato (email?)