



GIT/SUR Advisory Committee Minutes SP 2016

Date: February 24, 2016

Number of Attendees: 25

Called to order: 12:07 pm

Adjourned: 1:20 pm

Chairperson: Teresa Watson

Recorder: Jennifer Woods

Members present from industry: Shirley Barros, Earth Data Analysis Center; Chuck Cala, High Mesa Consulting Group; Don Fox, Geo Shack; Gathen Garcia, PNM; John Gonzales, Holmans; Darrell Kundargi, US Fish and Wildlife Service; Veronica Lopez, US Forest Service; Andrew Mathis, Running Start Program; Will Plotner, Cartesian Surveys, Inc.; Loren Risenhoover, City of Albuquerque; Joseph Solomon, High Mesa Consulting Group; Bill Stone, National Geodetic Survey-BLM; Tami Wiggins, Blues Skies Consulting

Members present from CNM: Amy Ballard, AT Associate Dean; Ron Forstbauer, Surveying Instructor; Amanda Glennon, CTE Outreach Manager; Andrew Martinez, Instructional Support Technician; Tania Rihani, Career Center Advisor; David Ruff, Instructor/Faculty Chair; Rick Watson, Instructor; Teresa Watson, Instructor; Jennifer Woods, Academic Tech Assistant; Vanessa Baez, GIS Student; Anaissa Salgado, SUR Student; John Beltran, GIS Teaching Assistant

Next scheduled meeting: Fall 2016 to be decided

I. Welcome/Introductions: Teresa Watson opened the meeting and introductions were made all around.

II. Minutes: Minutes from the fall 2015 meeting were approved.

III. Reports:

GIS: Teresa W. reported that changes to curriculum will take place this fall. We can send an update to the membership. Enrollment is on board with the rest of CNM. CNM is down by 10%, so the GIS program compares well. Placement: We had 13 graduates last year, and a few of our students are currently employed: Cochiti Pueblo, Holmans, City of Rio Rancho, Zia Pueblo, one is self-employed, one works at AECOM and was elected to the NMGIC Board of Directors. John Beltran (present at this meeting & graduate of our program) is working toward his BA degree and is Teresa's teaching assistant.

UAS: Rick W. reported that we have two classes. One is with the Running Start program (a team teaching class with Ron Forstbauer). Nine students are enrolled now. The other two-credit class has 18 students in it. We are working on a formal program. We are also working on putting numbers on the devices so we can start flying them. We have 3 Solos with Go-Pro 4K cameras and 2 large fixed-wing devices with high-res color imaging systems.

SUR: Ron F. reported that the certificate program will begin this fall. It will take three terms (33 credits).

IV. Old Business

Pathways Project: Amy B. said that the project report can be viewed on the NMGIC web site. Feedback about the report is welcomed by industry members.

GIS: Teresa mentioned high school recruitment efforts. Andrew M. said that there is now a website for the Running Start program. Amy said that CNM College Day went very well. Amanda G. said that her team is working on contacting all of the high schools in the area to start enrolling seniors at the College. Andrew has a list of all the students who attended College Day who were interested in specific programs, and will share that list with us. Amanda added that she asked students at College Day to fill out a feedback survey before leaving campus. Her team is analyzing the data and will share that with us in a few weeks. She has had requests from a few high school for people to come to the



schools and give presentations about CTE programs. Valley HS in particular would like to find out more about our UAS efforts.

SUR: Ron said that the NMPS student chapter is up and running now. He added that the students who came to the last meeting are very interested in going into the high schools to do presentations. Anaissa Salgado (present at this meeting and a SUR student) was elected as the liaison between CNM and NMSU chapters. We will also have a student presence at the NM state chapter conference. The NSPS national conference is coming up and is putting on a survey competition which we will enter. The state chapters are very supportive of us entering this national competition, and have donated quite a bit of money for the students' travel expenses.

Four-Year Degree Options: Ron asked the group what they thought about getting the BS at only one institution (NMSU). He asked Will Plotner to talk about the committee he is on. The Board of Licensure has an option to allow a student with a similar degree (such as civil engineering, forestry) to be able to have a path to licensure by taking an additional 19 credit hours. Out of those 19 credit hours, there is only one 3-credit class that CNM does not offer. He is working with NMSU to see if we could teach that class here at CNM. The Board wants to get student enrollment up so we can include a class like this. Could this be an on-line class from NMSU?

On-Line Courses: Ron said that in the fall we will have "Surveying Ethics" (one credit hour), which is open for continuing education credits, and on-line students.

Robotic Total Stations and Lidar: Should we be teaching with this equipment? Don F. says that this equipment allows you to do more with fewer people. This is expensive equipment, used on construction sites and forensics. Chuck C. said his company has four robotic total stations and uses them mostly for forensic work. He thinks it would be valuable to teach it here. Joe S. remarked that he still thinks students need to understand the very basic nuts and bolts of surveying, and on-the-job-training is where they would learn more about robotics, since they all use different software platforms. Ron asked if CNM needs to include robotic training in its curriculum. Joe said that while it may be helpful, it is not essential, because students still need to know the basics.

V. New Business

Internships: Amy said that we have the JCC, but do we need something more formalized for getting the word out, about setting up internships. Tania said that we will be doing industry-focused job fairs, which will be more like networking events, not just job-finding events. Will suggested we could set up links on industry websites to the student websites where job postings and internships are listed. Does CNM have a web page that industries could access in order to find interns? Can we have a LinkedIn page for GIS/SUR students looking for work or internships? Amanda said that HS students use Instagram, and not Facebook or LinkedIn. Students are always looking for summer jobs too.

Surveying Office student tours: Ron would like to take students out on field trips to see how an office works.

GIT On-Line courses: GIS 2007 (Applications) will be on-line in the fall. We want to do more of this in future.

GIT Topics courses: Any new ideas? Gathen suggested a course on administration. Back-end knowledge is a good thing to know. We do have database classes here. Shirley thinks it's important to train students in administrative and cloud and web-based map services. This could be a topics course. Veronica suggested a topics course on the cloud and programming. She thinks this is the way GIS is going now. Python and JavaScript would be valuable, but these are not AT classes, so we don't demand that our GIT students take these classes. Can GIS be adapted to the coding classes at the Stemulus Center? Veronica mentioned how business people want to use ArcGIS for business analytics. This could be a topics course too.

Vanessa Baez was introduced to the group by Rick W. She will be doing an internship in Rome, Italy this summer.

VI. Advisory Committee Feedback Survey: Distributed to the industry members.

VII. Adjournment: 1:20 pm Next meeting to be set at a later date.