



## GIT/SUR Advisory Committee

**Date:** Tuesday, March 31, 2015

**Called to order:** 5:15pm

**Adjourned:** 6:26pm

**Chairperson:** Teresa Watson

**Person completing report:** Jennifer Woods

**Members present from industry:** **Candace Bogart**, U.S. Forest Service; **Bill Brewster**, Souder Miller; **Larry Brotman**, NM Taxation Revenue; **Chuck Cala**, High Mesa Consulting Group; **Nathan Cruz**, Holmans; **John Gonzales**, Holmans; **Loren Risenhoover**, City of Albuquerque; **Eric Marlow**, **Tami Wiggins**, Blue Skies Consulting

**Members present from CNM:** Amy Ballard, John Bronisz, Ronald Forstbauer, David Ruff, Rick Watson, Teresa Watson

**Next scheduled meeting:** Early November, T or R night , 5:00pm, ATC 108

**I. Welcome/Introductions:** Introductions were made

**II. Minutes: Accepted from Fall 2014**

**III. Reports:**

- Ron reported that the NSPS (National Society of Professional Surveyors) New Mexico Chapter, held a competition and two of our students entered and were chosen to go to Washington DC to present their project. Ari Hernandez is one of the contestants and also won CNM's Women in Non-Traditional Careers Student of the Year award. **The project:** They surveyed a 2-1/2 acre site near Montoya campus using a total station and also with survey-grade GPS. They compared these data to the government Lidar survey. After side-by-side comparison, it was discovered that the government survey was off by about 1-1/2 feet. The software they used was ACAD and ArcMap. Ron was impressed by how well GIS and Surveying skills work so well together.
- A representative from the Water Utility Authority came to one of Teresa Watson's classes to discuss how they use GIS. The ABCWUA is always looking for CNM students because they love us so much.
- There will be curriculum changes. We will be working with the Geography department.

**IV. Old Business**

- Amy Ballard: Discussion about new technologies – During the last meeting, Rick Watson gave a demo using Photo Scan with UAS (Unmanned Aerial Systems). At CNM we have the potential to collaborate between programs, such as Aviation, Mapping, and a Robotics program. We have proposed to acquire a couple of new airframes, copters, two fixed-wing vehicles, photogrammetric software. In a couple of weeks, NMGIT is having a meeting and featuring UAS.



Wilson and CO is using this new technology. Regulatory measures are undefined right now, so we must wait and see what develops.

- There will be an Intro Level course in the fall using software for imaging. This will be a topics class, so we may identify the various rolls that UAS plays for pilots, analysts and engineers. The software we might consider is PIX4D. This technology appeals to young people, so we would like to give presentations to High School students. Also used for crime scene analysis. At CTE day (which was cancelled) we were supposed to use this software for the “Crime Scene” mock-up in the cottage. FAA airworthiness: certification is not a requirement yet. At Souder Miller, they are looking at UAS now.

#### **V. New Business FOCUS ON SURVEYING**

- **Ron:** Currently at CNM we teach two paths – GIT and Surveying. Associate of Applied Science in Survey Engineering. This only covers the first two years of a 4-year Surveying curriculum. To become a surveyor you need a 4-year degree, so our students who want that go to NMSU. The 2-year degree that students receive here articulates with NMSU. We also offer a GIS Certificate of Completion with a concentration in surveying. We have no certificate in surveying. We propose to have a certificate in surveying and eliminate the GIS/surveying certificate. So we would like to have a certificate of completion or 2-year degree in surveying and the same two options in GIS. One basic field course is not enough. CST Level 1 exam is a good thing for students to take because it shows they have the basic levels of understanding and are motivated to learn more. Souder Miller will even pay for these exams. Level 1 exam is temporarily being offered for free on line now. NICET exams are good too. Distance learning is problematic. Industry members voiced their support for changes.
- Continuing Ed: Do we need advanced workshops for your employees, and licensed professionals? Perhaps transitional workshops in software; theory, boundary analysis, legal description analysis, vertical curves, ethical practices. Clarity for new requirements. Saturday classes are preferred.
- **Amy:** NMGIC is going to take a look at the geophysical workforce. This survey is called the “Geospatial Pathways Project”. It will outline career paths for future students and the needs of the industry, and will be updated on some regular basis. Amy is on this council. It will meet April 23 and 24. Our two students will give their presentation at this meeting.
- We are changing the name of the program at CNM. We want to call it “Geospatial Information and Surveying Technologies”.
- We are eliminating the Trigonometry math class from the GIT program.
- We remind the committee that CNM has a great Job Connection service.

#### **VI. Adjournment: 6:26 pm**