1. Welcome and Brief Introductions

2. History/GIS at CSU (Melinda):
   We’ve had a past, but let’s not dwell there. We must consider how best to move forward with GIS at CSU. There are pockets of GIS across campus. How can we work together as a campus? Datasets, GIS projects in classes, etc. GIS is going to be (what?) at CSU?

   Colorado Agricultural Experiment Station (CAES) money is being used to create a center: Geospatial Centroid. Three years of funding; this is the last year. Website with links to different things regarding GIS at CSU. Currently looking for additional funding.

3. Current Status of Centroid (Sophia):
   What does the Centroid do?
   
   - Education and Training:
     - List of all GIS-related courses on campus
     - Higher Ed Summits and list of higher education institutions across state with GIS
     - Short courses, workshops
   - Research:
     - Facilitate across campus coordination/communication
     - Maintain list of GIS-related research projects
     - Centroid projects
       - COTrails – prototype, runs out of $ next few months
       - COMaP – maintenance going to CNHP
   - Events:
     - Brown Bag Lunches
     - Workshops, short courses
     - GIS Day
     - GIS in the Rockies
     - ASPRS Student Chapter
   - Data:
     - Development
       - Pingree Park – Molly
       - Parcels – Dylan
       - Wind data – Jamie
       - COTrails, COMaP
     - Delivery
       - State datasets – links to providers
       - Storage for CSU-produced data
       - Coordinate with library
   - Services:
     - GIS and Cartographic Services
       - CLTL
       - GIS/cartography services for other researchers
     - Help Desk, Support Desk for students/faculty
- Volunteers, part-time
- Donation accepted
  - Maintain ‘help sheets’, FAQ
  - Links to ESRI licensing and course info
- Contacts
  - Centroid core staff list
  - List of campus GIS users, affiliates
    - Photos, bios, expertise, level in interest in Centroid
    - Professors, researchers, students
- Listserv created
  - Geospatial@colostate.edu

Business Plan – in the midst of establishing accounts on campus for receiving money for services, donations, etc.

*Look at links of different websites, Centroid website, Higher Ed website, new Centroid page, COTrails

4. Moving Forward: Each committee member was asked to introduce themselves again and also discuss which aspects of the Centroid seemed most important to them and/or where they would be willing to assist. This was also an assessment of our “assets.”

Diane Noren – ESRI site license, as well as other site licensing across campus. Statewide license administrator (11 campuses). Can provide access to all ESRI courses (online) – free. Can do class-wide or individuals. Arc10 arriving mid-August. Faculty can provide Arc to students for free. Can choose 9.3 or 10. New contract addition: faculty and researchers can have personal license for home use when purchasing a license through CSU’s license arrangement.

Merlyn Paulson – Centroid is a good thing, positive idea if it produces. Landscape Architecture has seven courses that utilize GIS in some way. (Centroid currently has only two listed.) Would like to participate as much as possible – very excited. New graduate program next fall with heavy GIS component. Melinda asks – Are students interested in helping?? Answered yes – students start out thinking that it’s fun. He brought ArcGIS to campus in 1986. Will send Sophia an email with course numbers and names. Would be willing to present as well.

Peter Budde – National Park Service. Natural resource center. Internship opportunities. Natural resources inventorying and monitoring program. Geoprocessing, remote sensing, GIS developers, database, image processing, tech support among team of 12 in the group. 270 of 390 park units, provide support, air, water, geology, etc. Launching into ArcGIS 10 immediately. Maintain GIS clearinghouse, Natural Resource Data Store. USFWS starting inventorying and monitoring service as well in Fort Collins office...contacts to come. Will be interested in presenting information, data to students, etc. Applications oriented; can see where what is learned can be applied to real problems. Can present at Brown Bag.

Dylan Harrison-Atlas –Grad Student. Building statewide parcel dataset. Have data for most of the 64 counties in CO. Want to provide data for researchers who have statewide issues. Is willing to help students to do some maps and help with analysis. Troubleshooting help. Supports idea of Centroid—in theory and practice.

Luis Garcia – Civil Engineering. Three classes that teach, a few graduate level, one undergrad level. NR type work related to water, water resources, flooding, and evapotranspiration work. Remote Sensing, new faculty (Mazkak Arabi) specialize in RS and Evapotrans. Interest in environment.

Gary Senseman – CEMML. Focused on land management for military lands. DOD is primary customer. All aspects of GIS used. Work with Park Service, and other agencies. Staff 10-12 focused on geospatial things. Database development, application development, cartography. He is project manager. Oversees application develop, web-based, ArcGIS extensions, etc. open source/open layers web-based programming. Print atlases/cartography. On campus but external. Very glad to be involved. CEMML does a lot of workshops and courses already. Services related stuff – can bring experience into Centroid. Opportunity to fund projects through Centroid – can help with business model and bring expertise.
Amy Lavender – CO Natural Heritage Program. Service-oriented research unit. Dept of Fish, Wildlife and Conservation Biology. Develop databases for imperiled/endangered species. Analysis, cartography, modeling. Soft-funded group so not sure of the time commitment that they can provide. Brown Bags participation willing. Hire students and interns – offer/provide info to students looking for works. Keep the idea REALISTIC so we can be successful. A solid core, rather than trying to do everything and falling apart.

Brenda Faber – Private consultant, consumer of data. Frequently uses COMaP. Knowing where data is would be great. Knowing what research is occurring. Knowing the latest buzz – would love to tie into people who are experts for research on topics. Would love to do workshops or seminars. Clients occasionally ask for job – job listings possible. Private consultant network – does that tie into this? Melinda: GIS Alley, trying to put industry specialists together with other folks. GIS Alley didn’t really work out. She would love to help think about private inclusions and inclusion in Centroid. They do a lot of development, extensions and such. Tool development.

Chris Johnson – CDOW. A lot of interest in this group. Started at Univ. of Kansas. One of most important things to offer is work experience for students, hands on. GIS classes in academics are great, but not going to get the leg-up until doing the work itself. CDOW – GIS group, shrinking. Cartography, everyone in DOW uses some sort of GIS. Connection to CSU: NREL houses NDIS website. Species habitat information, downloads. One of first funders for COMaP project. Working on some contracts now for some things here. DOW and CSU research extensive partnerships. Hiring requirements – preclude them from pulling in full-time staff. Budgets to do “contractual” type things may be available. Practical services that fit niches for government. Maintaining higher level of job expertise is hard; workers outpace their pay quickly and leave. Do we have to pay for data that we’ve already funded for and moved to another location? Sophia says no. Funding can be tricky for different reasons – overhead and the cost to come to CSU for work. Things to think about.

Steve Leisz – likes idea for the most part where Centroid is going. University of Wisconsin has something like this set up. Consortium. All courses here at CSU are dispersed over campus but no one knows where they are. Wisconsin has everything under one umbrella and all courses could be seen. All courses were also cross-listed. Students should be able to pick and choose the best course for their interest than feeling like they have to stay within their own college. Geospatial Lab in Clark Bldg. In lab trying to use all the same software as other professors so there’s symmetry. Has some unfunded projects that he has data for that wants to do something with – could be done under Independent Study. Could then add to a portfolio or resume booster.

Michael Lefsky – seconds Steve’s comments about cross-listing courses. Frees them up to offer more courses in remote sensing, specifically. Has access to internships at NASA and other great locations. Advanced skills.

Melinda Laituri – cross-listing courses. What are the students looking for/needing? Is there a fundamental GIS class students should take? Classes then break off into specialties. Not sure if we are using all the resources efficiently for students. Duplicating efforts across campus.

Job/Internship Listings: Upcoming and previous so students can see what is out there.

Next steps:

1) Schedule of events for the fall: To be developed ASAP
2) Revising website, in progress
3) Atlas of Colorado? Something that people on campus could contribute to and add to, data and information, production, student work, product from the college/university.
4) Future meeting? Early October officially, but also at Brown Bag Lunches

Melinda:

1) Sabbatical this year – accessible by email, in Botswana
2) Detail, substantive stuff to get things going. GIS list and notes of expertise
3) Overall project is a great idea (like Colorado Atlas)