

**Quarterly GIS BILT Meeting March 8, 2013
Meeting Minutes**



Ann Beheler: Executive Director for NISGTC Grant ZOM Grant that funds GIS. We are following BILT model we have used for NSF networking BILT. We do need to recruit more GIS business. We want everything we do to be led by your needs.

Bill Hodges: GIS Division Manager for Midland, Texas. GISP- GIS professional certification run by a group funded by Uresia, the sole/not a software certificate or a technology certification. –Educate, or community involvement.

Adam Dastrup, Head of GIS at SLCC

Brian King: Free nickees that covers all parts of Texas. Texas Uresia chapter spokesperson GISP-GIS Analyst finishing masters at Penn

Carolyn French- GLS BL – mostly in oil and gas. Working on masters. David Peart and Rick Smith developing GIST 101-104.

Gary: Professor at Texas A & M from Australia. 4 year degree in surveying & GIS.

Mike Beavers- GISP- working on it, very important cert. Background in GIS & aviation. Navigation Adj. Professional as well.

Nathan Jennings- FT GIS supervisor. Created remote sensing program working on GST 105, consulting on side. Website ASPRS.org – Remote sensing & photogrammetry preferred org. <http://jenningsplanet.com>

Rick- GISP- retired air force & navigator consulting vertical geo

Where are the jobs in the industry?

David Peart- SLCC GIS team at Church.

Ann Beheler: Background half corporate/ half academic. Make sure processes set so curriculum is aligned with business needs. Did face to face and validated GST KSA's came up with curriculum based on it. In addition with the helping curriculum would like help with mentoring virtual intern/externship. Trying to involve business more intergrowly with students.

Phil: If you're interested we would hope you would help us recruit.

Ann: This is not just a one-way street, if there is something you need, let us know.

Phil: Curriculum updates GST101

Gary: Big survey.

GIS BILT Meeting Minutes

Bill- GTCM in process of becoming standard. Uresia is beginning a GEO maragus compentcy model.

Gary: Hoping industry would look at the GTCM.

Phil: the model curriculum.

Nate: 105- similar to Rick's method, aligning very well with what already teaching.

John Johnson- expert that did the dacum workshops. Medi dacum process is being used as the foundation GISCI foundation certification.

Adam: Having existing GEO Igcomatics- revamping and enhancing a lot of DelMar. We have to take some to enhance cumentl course.

Python

Statistic for GIS

GELO

Web GIS

Phil: What's missing from what you have seen?

Mike: Find out where trends are to tap into students who can feel needs- that's important to us to not have to train on them.

David: Having worked with Adam and having done some internship it has been good. Many times you're training people to work at a necgenial level. Having some hands-on is great. Having theory with experience is huge.

Carolyn: In her industry experience using GLS in BL solution- position analysis the focus around technology integrating GLS spotfine. Google map & ESKI as integration aspect. There is a need for real skills BI solutions – certs. Intergration with collaboration tools – special topics. Doing real data collaboration SPPS- only being discussed at grad. level. Big data in WSJ- it's all about data. Have people pre-approved.

Ann: Have to link GIS to BI.

David: Whole heartily agree integration with GIS & BI important. Makes a huge jump in the work we are doing.

Adam: Had a student bring up that he would like a course so when a company wants to start a GIS department.

Carl: ESRI has brochure – location analysis.

GIS BILT Meeting Minutes

Mike: So much embedded you don't even know your using them. Train students who know how to use these portals.

Rich M- Agree. Work with A.F. getting everyone to understand how everything talks to each other is hard to do- maybe the internship does this med students trained in the technology piece but also at side.

John J: agrees completely- big dat but no GIS

Carolyn: emphasis area- data warehousing if the program in CC that includes data warehouse, data mining incorporated would be good incorporation. Spot fine shows up on all job regs. Not a lot of people GIS & database warehouse.

PD: How hot is job market in Dallas?

CF: About 26 GIS- most oil and gas or energy/market on gov side. Integrating GIS with SAP.

PD: Database, programming as it relates to GIS the python –acct, C sharp, db.

Linkden- how to get a course just focus on python

Bill H: Houston is a hot bed right now- oil and gas not early adapter but are rapidly approaching instead of getting with GIS background thru tech thru oil and gas but looking for oil & gas with GIS benefits.

Mike B- Bill you hit it on the head they tried to bring someone in without surveying background.

Carolyn: something more geophysics type. In oil & gas companies have to. Curriculum to introduce.

<http://www.informationweek.com/software/business-intelligence/tibco-spotfine-revamp-supports-big-data/240007925>

<http://www.informationweek.com/software/business-intelligence/big-data-talent-war-10-analysis-jobs-the/232700311>

GIS BILT Meeting Minutes

Mark Leech: We are seeing two pushes; we have a men pushing to the open source. The second dynamic in the city we have different customers involved. Not driven at all by education.

Ann Beheler: Are there specific open source products you are looking at?

Mark Leech: No, as long as we provide our data in pretty reasonable sources then the source is up to the user.

Chuck Bales: I come from the CAD, are they requesting ESRI? I would like to know the predominant open source or top software so that we can incorporate it into our curriculum. Should we be switching between the two?

Mark Leech: ERSI has 89% of the market so it should be taught. Open map, how do I export that KMZ file.

Eric Whitmore: There are a lot of government institutes that are looking at open source for maps.

Phil Davis: Do you work with Amy?

Mark Leech: Yes I do.

Phil Davis: One of her adjunct has been teaching an open source course that we had created. He gets 24 students every class. I think we should be teaching more than one vendor. Teaching specific skills not just Esri otherwise I think you are limiting your students.

Mark Leech: I agree you have to look at where GIS is going.

Chuck Bales: I agree I am just playing devil's advocate. What are you seeing in terms of books or materials for open source?

GIS BILT Meeting Minutes

Phil Davis: The lack of material that has been a mission for a number of years, the easiest thing is to go out and get an Esri package. Open source on the other hand is a community so it relies on volunteers, what a lot of people forget is that open source relies on software. As far as open source material we plan to solve that problem. Hope to have available a year from now.

Chuck Bales: I am learning a lot from this and how to run my classes.

Mark Leech: In the online maps it is not the heavy lifting we are used to, it's making simple maps.

Phil Davis: If you compare the open source to Esri's info, they are going to come up short. There are so many advanced features that people don't ever need.

Mark Leech: Absolutely, we are having a hard time with our GIS guys because they are hardcore Esri guys, and having them communicate online is tough.

Adam Dastrup: With the open source stuff, Salt Lake is a huge GIS community, thinking it is a couple years down the road before they go open source, trends looking more to cloud and mobile GIS.

KSA's

Ann Beheler: What we need to be teaching, if it's more or less.

Phil Davis: The competency model was created by industry leads; GeoTech added their Daecom tech for ranking and skills. The rankings we provided to you came from GeoTech, and are coming from educators of what we think students should need.

Ann Beheler: Who do you think would be coming out of the jobs, if you're looking at desktop publishing?

Adam Dastrup: That is how it was planned out if assigned a 1 to 2 that means that if you have time then cover it.

Ann Beheler: I would like to have the business people to start with Describe basic concepts and use of remote sensing images, and let me know if there is anything that you think we should cover.

Mark Leech: I am looking down the list and these are things my guys have had to deal with in the last two years, they are all important I would not remove any of it.

Ann Beheler: Miguel suggests we send this out and that the industry can cherry pick the things in the 1 and 2s that are needed. We have sent it out if you would like to make comments later and send them please do.

Mark Leech: Shed analysis is not something we have come up in our world, it may have another term. Legal boundary would come out of other things being taught. You should be able to at least know the terms if not how to do it. It's all important.

Ann Beheler: Here is where the ones begin; they can be as time permits.

GIS BILT Meeting Minutes

Mark Leech: Maintain software that is almost like a given define database skills; you have to have a little bit SQL knowledge. They would defiantly pick up as they go and as I look down this list everything with a one you could potential disregard anything with a 1 except vector extracting.

Adam Dastrup: At some point you have to say, "What should they know?" The idea with the ones was that they should have some of this basic knowledge.

Ann Beheler: There should have been other industry leaders so what we can do is send this out and let others decide if there is anything in the 1s that should be covered. Phil, if you would like to go ahead and talk about the courses you have created.

Phil Davis: We have created the first 5 GIS courses from 101 to 105. We have the first course developed and lined with the KSAs. It has been sent to partner college Rio Salado for them to give it an overlook and place it on the NTER platform.

Ann Beheler: Can you please talk about the course names and what they cover?

Phil Davis: Please go to moodle.delmar.edu. We start with GIS 101 basic intro to GIS, the curriculum we are creating with the knowledge is generic, and the labs are Esri. GIS 102 basic analysis, acquisition management, and data quality projections. Intro to remote sensing, if you click on the blue hyperlink and sign in as a guest you can see the KSAs that it aligns to.

Ann Beheler: Are those canned Esri labs or are they being created with DOL money?

Phil Davis: Created with DOL money.

Ann Beheler: We have committed to creating 16 new courses we have 5 in GIS and 5 in cyber. We are trying to have an online professional development for GIS for the months of December and January. We are trying to put together some certificates and we will meet again in December to go over them. We would like to have these meeting quarterly to keep up with you and the changing trends. We would also like some of our businesses to be mentors to our students, we will also have virtual internships and would like the businesses to be a part of that as well. Are there any other comments or questions? We will get the KSAs out to you to go over the ones and twos.