



GIS Colorado 2015 Summer Meeting  
 Friday, August 7, 2015  
 Western State Colorado University, Kelly Hall  
 Room 116

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| 8:00-8:30 am      | <p><b>Registration</b> – Brought to you by Western State (Sponsored by CompassTools, CRITIGEN , ESRI, and Frontier Precision )</p>   |
| 8:30-8:45 am      | <p><b>Greeting, business announcements, introduce board members, general introductions -</b></p> <p><i>Caitlin Bernier, Phil Crossley</i></p>  |
| 8:45-9:15 am      | <p><b>Geography and GIS program at Western State Colorado University: Past, Present, and Future</b></p> <p><i>Phil Crossley - WSCU- <a href="mailto:pcrossley@western.edu">pcrossley@western.edu</a></i></p> <p><b>Summary:</b></p>  |
| 9:15-10:00 am     | <p><b>Return on Investment Using AVL</b></p> <p><i>Eric Svensen- City of Montrose- <a href="mailto:esvensen@ci.montrose.co.us">esvensen@ci.montrose.co.us</a></i></p> <p><b>Summary</b> Whenever you implement new processes, and spend a bunch of money doing it, you hope to be able to find a return on investment quickly. In the fall of 2014, the City of Montrose purchased and installed an automated vehicle location system in its fleet of vehicles. Using the tools supplied in the software and GIS we were able to find lost income and show that the investment was worthwhile and would be able to pay for itself.</p>   |
| 10:00-10:15 am    | <p><b>Break</b></p>  |
| 10:15-11:45 am    | <p><b>Unique &amp; Powerful Geospatial Field Data Collection Solutions: Harnessing all types of Real-Time Corrections</b></p> <p><i>Zach Edwards– Frontier Precision- <a href="mailto:zache@frontierprecision.com">zache@frontierprecision.com</a></i></p> <p><b>Summary:</b> Many of us in the GIS/Mapping professional data collection world tend to get stuck in the “same old, same old” way of doing things. Usually, this consists of collected data in the field and post-processing or differentially correcting this data against a reference station that is logging base files. It may also consist of collecting SBAS (WAAS) real-time corrected data if “meterish” data is good enough. What about harnessing the power of real time corrections over IP (internet) or radio similar to how many surveyors do? Here are a couple of scenarios. Why not (1) use corrections from a single reference station in real-time; (2) use corrections from a network of base stations known as a VRS or VRN, (3) use a mobile base to get corrections in areas where there is no cellular or baseline lengths (from the rover to the base) are too long, or (4) RTX technology anywhere in the United States? We’ve got some unique hardware/software solutions that can guarantee accuracy and efficiency anytime and anywhere!</p> |
| 11:45 am-12:15 am | <p><b>Public Land Dependency and Social Vulnerability: Putting in on the Map</b></p> <p><i>John Gioia– Western State Colorado University - <a href="mailto:john.gioia@western.edu">john.gioia@western.edu</a></i></p> <p><b>Summary:</b> The Bureau of Land Management is responsible for managing resources for multiple uses, including grazing and recreation, and climate change is placing novel challenges on decision-making processes. While ‘Public Lands Dependence’ and ‘Resource-Dependency’ is most commonly examined through the lens of community wellbeing and socioeconomic indicators at the community scale, ‘Public Lands Dependence’ in the BLM context requires examining specific user groups for which socioeconomic</p>   |

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|                  | <p>and wellbeing indicator data are less readily available. Grazing and recreation permitting data are used to examine 'Public Lands Dependence' on BLM land in the state of Colorado. Data are analyzed spatially analyzed to (1) drive further research on social vulnerability of user groups to climate change and (2) offer a decision-making tool to the BLM. Grazing and recreation user groups' dependence on BLM-managed resources in Colorado varies spatially at the Field Office level. This project demonstrates how permitting and other natural resource data can be used to evaluate spatial variations in Public Lands Dependence and use the information in a decision-making context. Ultimately, spatial representations of Public Lands Dependence will inform social vulnerability assessments and climate change adaptation strategy-development.</p> |
| 12:15 am-1:30 pm | <p><b>Lunch</b></p>  |
| 1:30 -2:15 pm    | <p><b>Gunnison County Smorgasbord</b></p> <p><i>Mike Pelletier– Gunnison County Government - mpelletier@gunnisoncounty.org</i></p> <p><b>Summary:</b> Some interesting ways GIS is being used in Gunnison County: 1) Sage-grouse and demographic analysis to refute US Fish and Wildlife Service findings on threats to the bird, 2) the challenges and fun of mapping the history of the Gunnison area, 3) how to automate color coding roads with address labels for map clarity, and 4) capturing Open Street Map trail data and converting it for desktop GIS use.</p>   |
| 2:15 -2:45 pm    | <p><b>GIS support of the Broadband Initiative in Rio Blanco County</b></p> <p><i>Mike Dinwiddie- Rio Blanco County - mike.dinwiddie@rbc.us</i></p> <p><b>Summary:</b> Learn how GIS was able to help the Broadband project in Rio Blanco County.</p>   |
| 2:45 -3:00 pm    | <p><b>Closing remarks</b></p> <p><i>Phil Crossley and Caitlin Bernier</i></p>  |

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