WyGISC Geospatial Forums – Fall 2012
Fridays 12:00pm – 1:00pm; Ag C 316

9/7: Jeffrey Hamerlinck and Margo Berendsen, WYGISC
This presentation reviews the design and development of the WISDOM wildlife information decision support application developed by WyGISC in collaboration with the Wyoming Game & Fish Department as part of the regional Western Governors’ Association Wildlife Corridors Initiative. The presentation will include a live workflow demonstration of WISDOM version 1.0, which was released to the public on August 6, 2012.

9/14: Barb Ray, Geospatial Liaison for WY, National Geospatial Program, US GEOLOGICAL SURVEY
--- US Topo - The New Generation of Topographic Maps
US Topo is the next generation of topographic maps from the U.S. Geological Survey (USGS). Arranged in the familiar 7.5-minute quadrangle format, digital US Topo maps are designed to look and feel (and perform) like the traditional paper topographic maps for which the USGS is well known. Along with a brief history of the program, the USGS Geospatial Liaison for Wyoming will demonstrate searching for, downloading and displaying US Topos.

9/21: Jacob Mundt, Geospatial Enterprise Architect, WYOMING DEPT OF ENTERPRISE TECH SERVICES
--- Three simple steps to Statewide GIS Coordination
The State of Wyoming Department of Enterprise Technology Services is a newly formed central IT department. Over the last 18 months, the department has been designing and implementing enterprise GIS Architecture in order to facilitate business needs in State Agencies. This talk will discuss our plan moving forward and highlight a couple of specific applications that have been put into production.

10/5: Nicholas Graf, WYGISC
--- Streamlining Environmental Regulation through a GIS enabled Web Application
When Governor Freudenthal signed an executive order limiting development in about 25% of the state to 5% disturbance and 1 disruption per 640 acres, a unique spatial challenge faced the state. WyGISC has created an online web application to help proponents setup and run calculations specified in the Governor’s executive order, a process called the Density and Disturbance Calculation Tool (DDCT). The application is created using ArcGIS services, a Flex application, and a web content management system. Challenges in the project have included; data confidentiality, communicating areas of concern, web editing, web services, and web performance.

10/12: Sheila Pelczarski, DENVER WATER
--- GIS and Remote Sensing in the World of Water Management
Established in 1918, Denver Water is Colorado’s oldest and largest public water utility service. Denver Water provides water to more than 1.3 million people in the City of Denver and surrounding suburbs. In her presentation, Ms. Pelczarski
will highlight the GIS and remote sensing applications at Denver Water for its water resources analysis and water management. Applications will include gravel pit reservoir mapping, wetland delineation, fire damage assessment and post-fire land treatment. Ms. Pelczarski also serves as the Communications Coordinator/Webmaster for the Rocky Mountain Region of the American Society for Photogrammetry and Remote Sensing (ASPRS).

10/19: Wendy Berelson, WYGISC
--- GIS Based Web Applications for UW’s Division of Administration and Agricultural Experiment Stations
This presentation provides an overview of several GIS-based Web applications developed by WyGISC to facilitate work flows in UW’s Division of Administration and Agricultural Experiment Stations (AES). The first half of the talk will describe the applications developed, or under development, for Real Estate Operations, Physical Plant, UW Police Department and the President’s Public Art Committee. The second half of the presentation will focus on the Study Area Resource Request Application (SARRA), an application developed to aid in field resource requests submitted by researchers at AES stations throughout the state. The above applications were developed using current technologies including Adobe Flex/Flash Builder and ArcGIS Online and have data sourced from UW’s Campus Enterprise GIS via ArcSDE and ArcGIS for Server.

10/26: Raymond Johnson, WYOMING OFFICE OF HOMELAND SECURITY
The Wyoming Office of Homeland Security takes a proactive and all hazards approach for determining if an event has occurred or could occur, resulting in a disaster or emergency. It is the intent of the Wyoming Office of Homeland Security to prevent emergencies as much as possible, and to facilitate an orderly and efficient response and recovery to all disasters. GIS provides a common operating picture for the Governor’s Office to make decisions in relation to the five core mission areas of Prevention, Mitigation, Response, Recovery, and Protection.

11/2: Christopher Nicholson, Water Resources Data System & WY State Climate Office, UW
--- Online Mapping Systems for Delivering Wyoming’s Hydroclimatic Data
Online Mapping Systems for Delivering Wyoming’s Hydroclimatic Data Online, map-based applications have experienced an explosion in popularity over the past decade. The success of these systems is largely due to their ability to provide a spatial framework for data exploration, and for the visual context (e.g., satellite images) they offer. Beginning in the late 1990s, the Water Resources Data System (WRDS) at the University of Wyoming has worked to provide different online mapping systems for a variety of water and climate applications. As the web-based technologies have evolved, WRDS continues to develop new ESRI and Google tools to address specific needs for water managers, legislators and stakeholders from across the state to assist in decision making processes about Wyoming’s water resources.

11/9: Barb Ray, Geospatial Liaison for WY, National Geospatial Program, US GEOLOGICAL SURVEY
--- The National Map Data Delivery Services
This talk will provide an overview of how The National Mapweb services and data download capabilities can be easily accessed and used to support a variety of project needs. Emphasis will be on use of The National Mapviewer, learning how to download and access The National Mapdata and understanding the variety of new web map services that are available.