U.S. Geological Survey, Geographic Information Science Workshop

Tuesday, May 10, 2011						
ROOM	Earth	Hazards	Polar	Hydro	Ocean	Weeks
	Hands-on Sessions and Seminars			Lecture Sessions		
8:00 AM – 9:45 AM	***The National Map*** Introduction to *The National Map* Viewer and Data Delivery Services, Rob Dollison and Matt Tricomi	**Analysis and Modeling** Creating Surfaces from Measurements and Observations, Steve Kopp	**Hydrography Applications** National Hydrography Dataset Applications Workshop, Jeff Simley	**Programming** Developing Tools with ArcGIS Desktop Version 10 Add-Ins, David S. McCulloch Animating MODFLOW Data by Using ArcMap, Steven K. Predmore Migrating Legacy ArcGIS Visual Basic for Applications (VBA) Tools to ArcGIS Version 10 and Visual Basic for .NET, Tana L. Haluska and David S. McCulloch	**System Design and Data Managment** EGIS Distribution, Installation, and Licensing of ArcGIS 10, Shane Wright Authoring and Publishing Advanced Geospatial Image Processing Tools to ArcGIS Server, Bob Ternes	**Data Integration: Community for Data Integration** (Introduction by Sky Bristol, no abstract) Fiscal Year 2010 Data Integration Development Project Deliverables—Tools for USGS Scientists, Scott McEwen and Tim Mancuso NWIS Web Services Snapshot Tool for ArcGIS, Sally Holl and others The GeoDataPortal: A Standards-Based Data Access and Manipulation Toolkit for Environmental Modeling, David Blodgett and others
9:45 AM – 10:15 AM	Break					
10:15 AM – 12:00 PM	***The National Map*** Using *The National Map* Services in ArcMap, Matt Tricomi and others	**Analysis and Modeling** New Analysis Capabilities in ArcGIS 10, Steve Kopp	**Hydrography Applications** National Hydrography Dataset Plus (NHDPlus) Version 2 Developments, Tommy Dewald and others	**Image Processing and Interpretation** Mapping Oil–Water Emulsions from the Deep-water Horizon Oil Spill, G.A. Swayze and others Development of Customized Tools Used in the Creation of the Landsat Image Mosaic of Antarctica (LIMA), Bob Ternes	**Data Managment** Building the Louisiana Seamless GIS Base Map, Sean Deinert and James E. Mitchell Structures and Places Stewardship in Oregon, Bill Clingman Using a Content Management System and GIS for Regional Data Sharing, Matthew Krusemark and others	**Data Integration: Community for Data Integration** (Peter Schweitzer, no abstract) ScienceBase Data Repository and Catalog—Supporting Geospatial Data Management, Tim Kern and others A Proposal for Using ArcSDE Personal as a Foundation for Developing a USGS Enterprise Geospatial Infrastructure, David S. McCulloch
12:00 PM – 1:30 PM	Lunch					

GIS Workshop

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1:30 PM – 3:15 PM	***The National Map*** Web Service Mash-ups with *The National Map* Matt Tricomi and others	**Analysis and Modeling** Using XTools Pro 7 for ArcGIS, Andrei Elobogoev	**Programming** Extending ArcGIS with Python, Drew Flater	**Data Integration** The Coastal and Marine Geoscience Data System; An Open Source Solution to Data Access and Integration, Gregory Miller and Shawn Dadisman Integration of Geology, Geochemistry, and Historical Data within GIS is Helping to Uncover New Mineral Potential in Established Exploration Areas, Birgit Woods	**GIS and Health** GIS Support to CDC's Emergency Operations Center During the Haiti Cholera Response, Brian Kaplan and Michael Wellman Coal Aquifers and Kidney Disease, William Orem and others Open Source News and Citizen Science Tools Aim to Fill the Gaps on Wildlife Health Information, Megan K. Hines and others Geospatial Approaches for Analysis and Modeling of Geographic Distributions of Ticks in the United States, Angela M. James and others	**Online GIS** Deploying a Web Mapping Software Stack: Orthoimagery, Web Server Tuning, WMS, Tile Cache, and Web Map, Dayne Broderson and others Science in Your Watershed: A Graphical Interactive System for Accessing Hydrologic Information in Watersheds of the United States, Michael C. Ierardi
3:15 PM – 3:45 PM	Break					
3:45 PM – 5:30 PM	**Online GIS** Building Great Mashups with ArcGIS.com, Charlie Frye and others	**Mobile GIS** Making Portable Mobile Maps with ArcGIS, Yana Kalinina and others	**Data Management** Best Practices for Image Management and Dissemination with ArcGIS, Cody Benkelman	**Cartographic Design, Output, and Publication: NHD** National Hydrography Dataset (NHD) Generalization Case Study: From Local Resolution New Jersey NHD to 1:24,000 Scale, Ellen L. Finelli and others Metric Assessment of National Hydrography Dataset (NHD) Cartographic Generalization Supporting the 1:24,000-Scale USGS Digital Topographic Map for New Jersey, Lawrence V. Stanislawski and others	**Judicial GIS** Using the Landsat Archive in Court, Melinda McGann Public Access to County GIS Parcel Basemap Data: The Struggle Continues, Bruce Joffe	**Data Management** How will Embedding ArcGIS into SharePoint Will Work in the USGS, Patty Damon and others Consuming SharePoint Lists in ArcMap using SharePoint Web Services, David S. McCulloch
ROOM	Denver Marriott West, Aspen/Snowmass and Beaver Creek/Vail					
7:00 PM – 9:00 PM	**GIS Olympics**, GIS Olympics, Ariel Bates and others					

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8:00 AM – 9:45 AM	**Cartographic Design, Output, and Publication** Getting Hydrography onto your Maps with ArcGIS 10, Charlie Frye and others	**Image Processing and Interpretation** Working with Landsat Imagery in ENVI: Calibration, Analysis, and Helpful Tips, Amanda O'Connor and Bob Ternes	**Programming** Extending ArcGIS with Python, Drew Flater	**Hydrography Applications** StreamStats: An Update on Status, Implementation Process and Future Plans, Kernell Ries and others	**Analysis and Modeling** Land-cover Mapping Results of Red Rock Canyon National Conservation Area, Clark County, Nevada, J. LaRue Smith Utilizing 3-D Modeling Techniques and Geodatabase Design To Map Placer Gold Occurrences in North Takhar, Afghanistan, Thomas Weeks Moran Development of a GIS Model of Range and Domain of Artisanal Small-Scale Mining Zones of Western Mali, Isabel H. McLoughlin	**Elevation Data Interpretation** Follow that Stream! Combining LiDAR and the NHD/WBD to Refine North Carolina Watershed Boundaries, Katharine Rainey Kolb and Silvia Terziotti Topographic Effects on Perchlorate Concentrations on a Hillslope at the Amargosa Desert Research Site, Nye County, Nevada, Toby Welborn and others GIS Modeling Techniques to Build an Improved DEM for the Bahamas with SRTM Data, Satellite Imagery, and ALOS PALSAR Data, Sarah M. Trimble
9:45 AM – 10:15 AM	Break					
10:15 AM – 12:00 PM	**Cartographic Design, Output, and Publication** Using TerraGo Software for Publishing and Consuming Geospatial PDFs, Michael Bufkin	**Data Integration** Ensuring Accurate, Consistent Measurements with GPS/GNSS, Pamela Fromhertz	**System Design** System Architecture Design, Ty Fabling	**Hydrography Applications** Colorado Water Science Center Geodatabase of Drainage Basins, Jean A. Dupree and Richard M. Crowfoot Use of the National Hydrography Dataset in StreamStats, Peter A. Steeves Wyoming's Stewardship Efforts to Fix GNIS Issues within the NHD, Paul Caffrey and others	**USGS Science Strategy** Core Science Systems Science Strategy Planning Team: Listening Session for the Eighth Biennial USGS GIS Workshop, Sky Bristol and others	**Elevation Data Interpretation** The USGS-NGP LiDAR Guidelines and Base Specification, Hans Karl Heidemann
12:00 PM – 1:30 PM	Lunch					

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1:30 PM – 3:15 PM	***The National Map*** *The National Map* Viewer and Services—Train the Trainer, Rob Dollison and others	**Elevation Data Interpretation** LiDAR Use and Management in ArcGIS, Clayton Crawford	**Analysis and Modeling** Building 3-D Subsurface Models in ArcGIS, Doug Gallup and others	**Mobile GIS** From the Desktop to the Field: HTML 5 Mobile Web Mapping Applications, David R. Maltby II High Accuracy Mobile GIS Field Strategy, Alex Mahrou	**GIS and Health** Mineralogical and Geochemical Influences on the 2010 Nigerian Lead Poisoning Outbreak Linked to Artisanal Gold Processing, Geoff Plumlee and others Mapping Oil-Water Emulsions from the Deep-water Horizon Oil Spill, G.A. Swayze and others Spatial Association between Pesticide Use and Levels of Obesity and its Co-morbidities in the United States, Benoit D. Tano	**Data Integration: ADIAS** Building a Framework for Water-Related Data Access: The Ancillary Data Integration and Analysis System (ADIAS), Curtis Price An Overview of National Water Use Information Program Data used by NAWQA Studies, Molly A. Maupin and others Archiving and Maintaining Consistent Watershed Boundaries, Michael E. Wieczorek and others
3:15 PM – 3:45 PM	Break					

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3:45 PM – 5:30 PM	***The National Map*** Intro to Web 2.0 and *The National Map* Direction, Rob Dollison and Matt Tricomi	**Analysis and Modeling** 3-D Feature Analysis in ArcGIS, Clayton Crawford	**Hydrography Applications** NWIS Web Services Snapshot Tool for ArcGIS: A Hands-On Workshop to Retrieve NWIS Data in a Local-Scale Study Area, Sally L. Holl	**Data Management** Demystifying SDE—A Retrospective on the Trials and Tribulations of Implementing ArcSDE as a Master Geospatial Data Library Platform, Nancy A. Damar and Rose L. Medina Enterprise Linear Referencing using the High Resolution National Hydrography Dataset (NHD) and the Hydro Event Management (HEM) Tools: The Oregon Bureau of Land Management (BLM) Experience, Jay Stevens Mapping Out a Course of Action: How the Texas Water Science Center is using Web-Based Applications to Provide and Manage Geospatial Data, and Lessons Learned along the Way, Christy-Ann M. Archuleta	**Analysis and Modeling** Natural-Resources Assessment in Support of Regional Planning and Development in the Anosy Region of Southeastern Madagascar: An Interdisciplinary Geospatial-Based Approach Using Fuzzy Logic, Mark J. Mihalasky A 21st Century Conservation Strategy for America's Great Outdoors, Lisa Duarte and others GIS to the Rescue: Saving the Rio Grande Silvery Minnow, Daniel K. Pearson and J. Bruce Moring	**Data Integration: ADIAS** Creation of SSURGO and Agricultural Practices Datasets at the National Scale, Michael E. Wieczorek GIS Tools for Selection and Area Characterization of Water-Quality Sampling Sites, Curtis Price and Naomi Nakagaki
ROOM	Denver Marriott West, Golden Ballroom					
6:00 PM – 8:00 PM	Poster Session					