2013 MEGUG Summer School and Annual Meeting

Sebasco Harbor Resort, Phippsburg ME

Friday, June 28th

8:00 to 8:45   Registration and coffee (Sponsored by ESRI)

* WiFi password = puremaine

8:45 to 9:00   Welcome – Janelle Lavallee, MEGUG Vice-Chair

9:00 to 11:30   Morning Workshops (with a 15 minute break 10:15-10:30 sponsored by ESRI)

LIDAR Track – Abdullah Qassim, Woolpert, Inc. (Aft Deck)

The session will focus on demonstrating the fundamentals of the LIDAR system and performance. The goal is to provide a dynamic forum to address current LIDAR acquisition systems and acquisition parameters and to highlight capabilities on these new technologies.

ArcGIS Online and Application/Use Areas – John Cassidy and Mark Scott, ESRI (Fore Deck)

This session will show you how to create and share maps that can be accessed by anyone through a browser, a mobile device, traditional desktop GIS software, or a custom application. Also demonstrated will be tools to manage map and map data through an easy-to-use catalog allowing you to share your content publicly or only with specific groups of people. Attendees can expect to learn how to make their own maps and also how to enable co-workers to make their own web maps with little or no training. The session will utilize ArcGIS Online, a cloud-based geospatial content management system for storing and managing maps, data, and other geospatial information, built on Esri's cloud infrastructure.

11:30 to 1:00   Lobster bake luncheon on the pool lawn

1:00 to 1:30 MEGUG Business Meeting and Board Election Announcements

1:30 to 2:45 Afternoon Workshops

LIDAR track – Patrick Cunningham, Blue Marble Geographics (Aft Deck)

Adding the third dimension to a mapping project can take the power of desktop GIS analysis to the next level. In recent years, high-resolution elevation data has become increasingly available, resulting in more precise analytical tools. Much of this trend can be attributed to the expanded availability of LiDAR data and the development of inexpensive software tools that can process and utilize this data. In this presentation we will consider one application that has gained a worldwide reputation for its ease of use, low cost, and powerful data processing capability. Maine-based Blue Marble Geographics' Global Mapper software can work with over 200 spatial file formats, including LiDAR (.las and .laz), and offers an array of tools for generating terrain surfaces, 3D modeling, and terrain analysis. This presentation will include a demonstration of contour generation, watershed

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delineation, viewshed modeling as well as terrain flattening and cut & fill volume calculation for site planning.

Cartography Part 1 – Judy Colby-George, Spatial Alternatives GIS Solutions (Fore Deck)

In this class we will delve into the key elements of a map and how maps communicate information and ideas to the public. We will go over both the theoretically reasons for why we do things a certain way and specifically how we to do those things using ArcGIS. We will spend time thinking about design features, symbology, color, projections, and other elements of a map. The class will show you how to do things in ArcGIS but the focus will be on why and how you should include certain elements (regardless of the software you use) in order to communicate most clearly your ideas to the public.

2:45 to 3:00 Break (Sponsored by Blue Marble)

3:00 to 4:00 Afternoon Session

LIDAR Quality and Accuracy - Thomas Asbeck, PointCloud (Aft Deck)

The "No Surprises - LiDAR Quality and Accuracy" presentation involves the elements of a quality review of LiDAR data to insure a delivered data set meets specifications and is applicable to a users project .

Cartography 103 – Judy Colby-George, Spatial Alternatives GIS Solutions (Fore Deck)

In this session we will delve more deeply into how modern technology is changing how maps are used…from static final products to part of the knowledge production/policy making process. We will spend more time discussing appropriate symbolization for complex communication of ideas including fuzzy boundaries, scale dependent symbology, etc. We will consider the differences between paper maps and web based maps. Finally, we will discuss the implications of maps as storytelling/visualization tools. This session is intended to be a facilitated discussion with examples, so bring your thoughts and ideas.

Thank you to our Sustaining Members for their ongoing support throughout the years.

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