SUMMER SCHOOL 2012 ▪ MEGUG ANNUAL MEETING
Maine Maritime Academy ▪ Castine, ME

8:00 – 8:45   **Registration**

8:45 – 9:00   **Welcome**

9:00 – 11:30   **Morning Workshops (with a 15 minute break)**

GIS 101
by **John Cassidy (Esri)**
This session will present an overview of "what is GIS", basic concepts, and a high level summary of its uses in various business operations. Users should expect to come away with a broad understanding of this important technology. The concepts presented will be augmented with a live demonstration of specific examples of GIS usage.

Orthos are more than just Pretty Pictures
by **Rick Hammond, GISP (Woolpert, Inc.)**
This presentation will present the State of Maine Orthoimagery Program and discuss the basics of imagery and LiDAR data that will be collect. Once data has been collected from an area, a number of value-added products can be derived from combined four-band imagery and LiDAR datasets. The presentation will focus on what they are, how they are derived, tools that can be used, etc. The presentation will focus on impervious surface delineation, biomass, solar potential, and land cover.

Integrating Document Management and GIS
by **Aimee Mountain, GISP (GZA GeoEnvironmental) and Steve Weed (Assessor/GIS Coordinator for the Town of Bar Harbor)**
The **Town of Scarborough** decided to implement SharePoint as its intranet and document management system. All digital documents are currently being loaded into SharePoint along with metadata. GIS has features that relate to documents such as road deeds, subdivision plans, pictures, etc. and documents often relate to a location in the Town. Linking the two together allows users to discover more information and improve workflows.
Two years ago the **Town of Bar Harbor** contracted with PeopleGIS in Arlington, MA to deploy a web-based GIS and Document Management System for Town Staff and the Public. The system allowed town staff and public access to documents, such as the property cards, tax bills, building photos, real estate transfers, etc., simply by entering the property location, owner name or parcel id. This spring we began deploying this system in the Planning Office and will soon be making planning application and building permit available through this system. This presentation will demonstrate the functionality of this system and how to access information.

11:30 – 1:00   **LUNCHEON and Panel Presentation on GIS Professional Certifications**

A panel presentation will cover various GIS certifications, what they entail, requirements, and the pros/cons of receiving certifications:
- **GISP: Aimee Mountain, GISP (GZA GeoEnvironmental)**, a GISP (Certified Geographic Information Systems Professional) who has met the minimum standards for ethical conduct and professional practice as established by the GIS Certification Institute (GISCI www.gisci.org). Applicants must meet minimum requirements and provide supporting documentation in three categories: Educational Achievements, Professional Experience, and Contributions to the Profession.
- **ASPRS: Claire Kiedrowski ASPRS (KAPPA Mapping, Inc.)** Review certification options, more specifically ASPRS Certification Program for Mapping Scientist for GIS professionals.
- **Esri Technical Certification: John Cassidy (Esri)** will speak on The Esri Technical Certification Program. It recognizes qualified individuals who are proficient in best practices for using Esri software. Exams are available for different areas of expertise at Associate and Professional levels. The program is open to Esri users worldwide. This session will provide an overview of the program.
- **Academic Certificates in GIS and GIS Degrees at Maine Universities**: **Tora Johnson (University of Maine at Machias)** will explore the different options for learning geospatial technology in Maine, whether you want to learn the basics, update your skills, or add to your resume with advanced technologies. We'll cover the courses, workshops and programs available, including costs, format, geography, and pros and cons. A handy brochure and web resources will help you follow up and choose the best options to serve your needs.

1:00 – 1:30   **MEGUG Business Meeting and Board Elections**

2011 Scholarship Recipient Peter Miller
The Phippsburg Shear Zone is a Paleozoic shear zone that deforms Ordovician aged metasedimentary rocks on Small Point, Maine. The shear zone was mapped using Trimble Jonos running ArcPAD and a Panasonic ruggedized laptop running full ArcGIS 10. Strike and kips were marked by GPS points and recorded in the Junos. Using field measurements and shear strain calculations, the eastern boundary of the shear zone was defined and mapped in ArcGIS. The shear strain values were

determined from deformed granites within the study area and mapped in ArcGIS to confirm the shear zone boundaries.

1:30 – 2:45   **Afternoon Workshops**

What's New in Web Mapping 1 – ESRI options
by **Sam Berg (Esri)**

ArcGIS Mapping APIs can help you build and embed dynamic, interactive maps within your agency or organization. By utilizing tools and viewers which overlay GIS maps and image services with other information sources, you can create very useful and easy to use mapping applications.

This session will highlight the current capabilities offered by Esri, including the ArcGIS Mapping APIs for JavaScript, Silverlight, and Flex, along with their use within ready to use applications and templates.

Using Maine's 2011 LiDAR Data for Terrain Analysis in Global Mapper
by **David McKittrick (Blue Marble Geographic)**

Maine-based Blue Marble Geographic Global mapper software has garnered a worldwide following among GIS professionals and map enthusiasts alike. While many value the software for its wide ranging data support and conversion capabilities, this workshop delves deeper into Global Mapper's spatial functionality and reveals its powerful 3-D and terrain analysis tools. Attendees will lean low to process Maine's LiDAR data; generate a DEM and export contours; conduct line-of-sight and view shed analyses; create watersheds; and calculate cut and fill values for terrain modification.

GPS and Where Is It Going –
by **William Treadwell (MTS)**

GPS technology is changing constantly, this workshop will cover basics of GPS technology, what is new in the GPS world, and the varying array of receivers, transmitters, and other tools, how to use them, pros and cons, etc.

2:45 – 3:00   **Break**

3:00 – 4:00   **Afternoon Session**

What's New in Web Mapping II ▪ Open Source
by **Bob Bistrais (Maine Office of Geographic Information Systems)**

For the past several years, the Maine Office of Geographic Information Systems (MEGIS) has been building GIS services and web mapping applications using open source technologies. Our current strategy combines Map Server, HTML, PHP and JavaScript, as well as ESRI and open source data formats and services to create cost-effective web mapping solutions.

In this presentation we will discuss open source solutions, with the focus on Map Server, using
Map Server as a WMS platform, GeoMoose and the PHP/Map Script toolset, and implementing applications using these technologies.

Can You Actually Use LiDar Data in GIS ▪ ArcGIS 10.1
by **Lindsay Weitz (Esri)**

This session is designed for anyone interested in learning more about how to work with LiDAR data within ArcGIS, with a focus on the new capabilities within the upcoming ArcGIS 10.1 release.

Attendees will earn 0.2 CEUs for each workshop attended.
To register for this event, go to www.megug.org