



## **GPS Workshop – Applications of GPS and CORS System** **UMPI Campus Center, November 18<sup>th</sup> (9:00-11:30)**

The Geospatial Technology Information Center (GITeC) at the University of Maine at Presque Isle (UMPI) will host a GPS Workshop with a focus on applications of GPS and CORS system, on Wednesday, November 18<sup>th</sup> (which is this year's GIS Day). The Workshop is funded by a grant awarded by the Strategic Investment Fund through the University of Maine System Chancellor's Office with the purpose of fostering UMPI's community GIS partnership and promoting geospatial information technologies in northern Maine. It is co-sponsored by MaineDOT which recently installed a CORS base station on UMPI campus. The CORS base station is one of the eight base stations within the new MaineDOT CORS network and the only one north of Bangor. It will benefit GPS users in not only route and control surveying, but also farming, utility and municipal infrastructure mapping, and other GPS applications in northern Maine.

The Workshop is open to all who are interested in GPS and GIS applications, at no cost. It will take place in the Alumni Room in the Campus Center at 9:00-11:30. Coffee and lunch will be served.

Workshop attendees are invited to join UMPI officials, community GIS partners, and Aroostook legislators for a brief dedication ceremony for the newly constructed GIS laboratory, the Geospatial Technology Information Center, funded by Maine Technology Asset Fund, at 11:30 before luncheon.

### ***Topics and Guest Presentations***

**1. *The MaineDOT CORS and its Impact*** (by Harold (Harry) Nelson and Ralph "Jimmy" Wakeling, Maine DOT)

The talk covers the history of geodetic surveying, an introduction to GPS and CORS, how the MaineDOT CORS Network came about, how we use the CORS, and how OTHERS can use the CORS.

Harry is the Senior Geodetic Survey Technician for the MaineDOT Property Office and is currently overseeing the implementation of the MaineDOT CORS GPS project. He has been with MaineDOT for 31 years and has worked in Route Surveying, Control Surveying, and Project Coordination.

Jimmy is the Region 5 Survey Supervisor with the MaineDOT Property Office in Presque Isle. Jimmy has been with the MaineDOT for 20 years and has worked in Route Surveying, Control Surveying, Construction Layout and inspection using GPS, and Project Coordination.

**2. *GPS Applications in Utility Management*** (by Harold (Harry) Nelson, MaineDOT)

Representing Augusta Water and Sewer District, Harry will give a presentation on GPS applications in utility mapping and management in the District. As indicated by the District's Director Brian Tarbuck, GPS application "has saved us a lot of time and money".

**3. *GPS Applications in Farming*** (by Gary Nadeau of Theriault Equipment and Trevor Folsom)

Gary's talk covers swath-pro control that is a GPS location-activated boom control for controlling overlap and misses in the field; guidance correction options for planting like signal strength, obstacle to avoid signal loss, and RTK network advantage; and straight and curve-track planting and crop placement.

Gary has been with Theriault Equipment for 12 years and in the last 8 years he has been working in the Ag side of John Deere AMS system.

Trevor has used Trimble and other GPS systems for local farmers in the past years. He will share his extensive GPS experience in actual commercial farming applications in local farms, and answer questions on the benefits and applications of GPS systems to the farmers of northern Maine.

**To register for the workshop or should you require additional information, please directly contact  
Dr. Chunzeng Wang at 768-9412 or [chunzeng.wang@umpi.edu](mailto:chunzeng.wang@umpi.edu).**