



GUEST LECTURE
GEODESY AND GEOMATICS ENGINEERING

Airborne Coastal Mapping and Charting

Wednesday, November 4, 2015
@ 4:00 pm

Head Hall – Room E4

Lecture to be presented by Dr. Jennifer Wozencraft, U.S. Army Corps of Engineers

Abstract:

The Joint Airborne Lidar Bathymetry Technical Center of Expertise is a collaboration in the development and operation of airborne lidar and imagery systems to support the coastal zone management and nautical charting needs of its partner agencies in the US Government. This presentation will give a brief introduction to airborne lidar bathymetry technology and sensor development and how these sensors are deployed for the production of high-resolution, high-accuracy data in coastal and shallow water areas. An overview of existing and emerging applications for data produced by the airborne mapping systems will conclude the presentation.

Guest Speaker:

Dr. Jennifer Wozencraft is Director of the U.S. Army Corps of Engineers Joint Airborne LiDAR Bathymetry Technical Centre of Expertise (JALBTCX).

US Army Corp of Engineers Headquarters funds the Centre to execute its National Coastal Mapping Program (NCMP). This program is designed to provide regional coastal data, at engineering scales and on a recurring basis, to support regional sediment management and other USACE activities in the coastal zone. Since its inception in 2004, NCMP has collected airborne LiDAR topo/bathy and imagery data along the U.S. Gulf of Mexico, Atlantic, Great Lakes shorelines. GIS products generated from these data include topo/bathy DEMs, bare earth DEMs, vector shoreline, bottom reflectance images, and RGB and hyperspectral image mosaics. These data are available to the public through the NOAA CSC LDART website.

Everyone Welcome!