

May 6-24, 2019

APPLIED
HERITAGE &
SUSTAINABILITY
RESEARCH AT

EGMONT KEY

Project Co-Directors:

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Project Introduction:

This professional development workshop uses Terrestrial LiDAR and GIS analysis to visualize and digitally preserve Egmont Key's endangered heritage. Participants will learn valuable technological skills while adding to the research on Seminole history during the removal period, and engaging in dialogues with members of the Seminole Tribe about the events that took place on Egmont Key during the 1850s. This will give voice to the painful Seminole history, while creating a permanent, digital record of a site that is threatened by coastal erosion driven by sea level rise.

Methods:

Participants receive in-depth training from USF faculty who are experts in the fields of geospatial analysis, terrestrial LiDAR and data processing. At Egmont Key (May 6-17) participants will be trained how to use state of the art FARO Focus x330 and s150 scanners to create a high resolution 3D point cloud dataset. From May 20-24, participants work at USF's Access 3D Lab to process data for multiple geospatial applications. This encompasses working with drone-derived GIS data for mapping applications, creating DSM models using NOAA data from aerial LiDAR flights over Egmont Key, and processing Terrestrial LiDAR data from the FARO scanners to create a photorealistic 3D point cloud model.

Workshop Structure and College Credit:

This professional development workshop offers hands-on technical training in geospatial and 3D documentation methods for USF students and the public. USF graduate students from any department also have the option of registering for the USF Maymester course IDS 6938: Applied Heritage and Sustainability Research, which incorporates written research assignments that expand upon the workshop training. All participants are eligible to earn a Career Readiness Gold Badge - Access 3D Lab's highest certification of applied technology skills - a resume builder that is attractive to future employers.

Fees:

This professional development workshop carries an \$800 fee, to be paid to USF's Access 3D Lab. The fee includes boat transportation to and from Egmont Key for two weeks, expert instruction, equipment, and a Gold Badge upon completion of the work. Participants are responsible for their own transportation to and from the Egmont Key marina, within Fort DeSoto. Scholarships may be available.

How to Apply:

To apply, please send a 250 word letter of interest to access3d@usf.edu. Questions may be directed to Dr. Laura Harrison at harrisonl@usf.edu.



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