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# 2015 SHRUG Workshop "Beyond the Map"

TALLAHASSEE, FL

NOVEMBER 18TH & 19TH

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## Presentations Announced!

### Presentation Line-up

#### Mentoring & Mapping at A Local Middle School

*Provided by Kim Jackson & Ned Cake*

For six weeks this Fall, the Middle School at the School of Arts and Sciences in Tallahassee, FL hosted a GIS extension class, for fifty minutes, four days a week. Two local GIS professionals became class mentors. Soon students begin using their school's free ESRI ArcGIS Online account with a 1000 credits. Join us to learn about the final products this class created, see some demos and check out their poster in the Gallery. Get tips on being a geo-mentor to students in your community!

#### Aerial Imagery Digitizing & Archiving Project: Lessons Learned

*Provided by William E. VanSickle, Xi Chen, Zuo Zhou*

This summer, we began a multi-year project to capture, scan, catalog and share a collection of 24,000 unique aerial images taken over the past three decades. We would like to present the findings from the Demonstration and Pilot phases of the project, along with our plans to scale up and complete the project over the next 3 years. Topics include project management challenges, along with the technical and personal issues faced and resolved, and the lessons we learned from the experience.

#### How did I end up in GIS? Reflections on a Career and What I have Learned

*Provided by Tripp Corbin, GISP*

Growing up, I never thought I would end up as a GIS Professional running my own company. However after a 20 plus year journey, that is exactly what I am doing. The journey to get where I am has been long and winding. Over its course I have learned many lessons most of them the hard way. This presentation will reflect back on my professional journey and look at how I ended up in the GIS industry and many of the lessons I have learned along the way.

#### The Land Surveyor and the Parcel Fabric

*Provided by Frank Conkling*

This presentation will discuss the Parcel Fabric, the technology behind the ESRI Parcel Editing Solution. Topics include the way in which the Parcel Fabric accounts for differing boundary values (bearings and distances) for the same boundary line, the concept of measurement versus monuments, integration of survey control into the GIS cadastre and the application of controlled, rule-based adjustments using least squares adjustments.

#### Network-Based Model Building for Discrete Location Allocation in Python: Integrating PySAL and Gurobi

*Provided by James Gaboardi*

This is a demonstration of network-based location allocation model building utilizing the open source Python programming language while integrating an open source spatial analysis library developed by PySAL Developers, Python Spatial Analysis Library (PySAL v1.10.0), and an academically-licensed closed source mathematical programming solver developed by Gurobi Optimization, Gurobi Optimizer v6.0.2. Fundamental linear integer programming Facility Lo-

#### There's not an app for that: Using Python to Structure Coastal Survey Data

*Provided by Philip Griffith*

Learn about the development of an application for aiding the QAQC of semi-structured coastal survey data at the Florida DEP. Be moved by the power of custom classes and inheritance, discover the beauty of separating a project into modules, and marvel at the wonder of regular expressions. I'll also discuss the value of log files in the unique lifecycle of this project, as well as the use of matplotlib and PyQT in crafting a GUI.

#### ArcGIS Pro: The good, the bad and the ugly

*Provided by Tripp Corbin, GISP*

ArcGIS Pro is Esri's newest desktop application. ArcGIS Pro allows users to create 2D and 3D maps using a new ribbon interface. While ArcGIS Pro brings some exciting capabilities to the table, it is still very much a work in progress. Learn the good, the bad and the ugly about this newest app from Esri.

#### Tips and Tricks—Passing a Certification Exam

*Provided by Tripp Corbin, GISP*

A growing number of GIS certifications now require an exam if you wish to earn the credential. Many of us have not taken an exam since college so are not really prepared for what we might face. This presentation will focus on tips and tricks that will help you prepare and pass a certification exam. I have put these together based on my own personal experience of having taken multiple certification exams including Microsoft, Esri, Comptia, and more.

#### Visualizing Religious Exemptions for Vaccinations Using an Interactive, Web-Based Map

*Provided by Katherine Kendrick, Scott Pritchard, Chris DuClos*

Clustering of persons with vaccine exemptions can threaten herd immunity and increase risks for vaccine-preventable diseases (VPD). We conducted a unique analysis to identify Florida census tracts with high proportions of religiously exempt children and developed a tool for persons to visualize the data. We used ArcGIS online to create an interactive, easily shared map. This tool helps state and county health departments target messaging and implement prevention strategies for VPDs.

#### Statewide GIS Coordination

*Provided by Richard Butgereit and Sara Wander*

Stakeholders from agencies in Florida and the Agency for State Technology have come together to increase statewide GIS coordination efforts and advance enterprise strategies. This session will serve as a brief description of these efforts and will turn into an open discussion for anyone who is interested in joining these efforts, questions, comments or

## Submit Your Presentation

Every year we receive feedback that the SHRUG Workshop should have more presentations about a particular topic. Some of these requested topics are utilities, environmental, transportation, census, and many more.

You might be working on a project that could be helpful to someone else in our GIS community. Share what you are working by presenting it at the 2015 SHRUG Workshop.

[Submit Your Presentation Now](#)  
Deadline to submit: 11/11/2015

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