

FLURISA NEWSLETTER



Letter from the Vice President

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The FLURISA newsletter provides members with key updates, relevant articles, and upcoming events. Distributed quarterly, it's the best way for FLURISA members to stay connected with all that happens in our chapter.

As FLURISA begins the new year, we have decided to change publications to only quarterly newsletters. Update publications will be only published if there is a necessity to provide the membership with content.

We look forward to sharing quality articles, information and events!

Dear FLURISA Members,

First, thank you very much for supporting FLURISA! We just finished up our 2015/16 year and it has been another great one! The support we have received from all of our members has been tremendous and we are striving to continue and pay our membership back.

Our biggest accomplishment in 2015 was adding several self paced GIS classes available free to our membership. We are still offering these classes in the 2016/17 year and we are currently working with the class creator to get updated and new classes added. In the near future these classes will be added to our website under the education tab. We will notify everyone once this has taken place.

Another great benefit for members is our eFLURISA webinars. The webinars are a great way to learn about GIS techniques and tools as well as see them put to the test in real world scenarios. The next webinar will focus on the new GISP certification process.

We are currently gearing up for the local conferences around the state. CFGIS Workshop, SF-Expo, and SHRUG are all right around the corner. We encourage all members to attend the conference in their region and look forward to seeing you there! Our annual meeting will be held at the CFGIS Workshop on Tuesday, September 20th in Daytona Beach. We encourage everyone to come join us for the annual meeting, but if you can't make it we will broadcast the meeting as an eFLURISA webinar.

We are tremendously grateful for the entire board and all the time they put into making FLURISA run smoothly. We would like to extend a special thanks to the hard work that Molly and Charrell have put into the newsletter. We are sad to report that they are stepping down from their positions at the end of the year, but we are excited to assemble the new team, if you have interest please send us your resume.

As always, the board is looking for ways to improve the experience for our members. If you have any questions or suggestions, please reach out to us at flurisa@flurisa.org.



Sam Palmer,
FLURISA Vice President
sam@geoplan.ufl.edu

Upcoming GIS Events

September 19-20 Central Florida GIS Workshop. Ocean Center 101 N Atlantic Ave, Daytona Beach, FL. <http://www.cfgisworkshop.com/>.

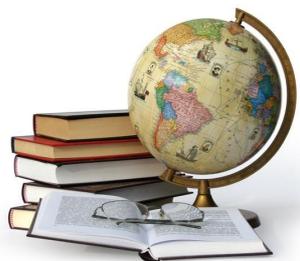
September 29-30 South Florida GIS EXPO. Palm Beach County Convention Center 650 Okeechobee Blvd, West Palm Beach, FL . <http://maps.co.palm-beach.fl.us/sfgisexpo/>.

October 27 Southwest Florida GIS Symposium. Minnesota Twins Development Academy, Fort Myers, FL.

November 16-17 SHRUG 2016 Work-

shop. August B. Turnbull III Florida State Conference Center 555 W Pensacola St, Tallahassee FL. <http://www.shrug-gis.info/>.

As a reminder, keep an eye out for the local GIS User groups meetings in your area to stay up with all the changes in GIS and get an opportunity to interact with the GIS community!



FLURISA SECTION UPDATES



North Section

The North Section congratulates and welcomes Salina Randall, with UWF, as our FLURISA Panhandle Regional Director. Please send nominations or interest in the Northwest Regional Director to Tom Tibbitts, Section Director, at ttibbitts@sjcfl.us

Northeast Region: NEFGIS held their Spring luncheon on Thursday, May 19 at the St. Johns County Utility office. Presentations included "Mobile GIS Transforms Operations at St. Johns County Utilities" by Tom Tibbitts (Information Systems Coordinator) and "Survey123" by Brent Kastor (Business Consultant – CSX) and Alexander Traversa (Jacksonville Transportation Authority). The next luncheon will be held on GIS Day at the University of North Florida.

Panhandle Region: The University of West Florida hosted their second free Massively Open Online Course (MOOC) this summer in GIS. FLURISA Panhandle Region Director, Salina Randall and FLURISA Education Coordinator, Amber Bloechle, lead the 6-week course of over 1,700 students and awarded over 1,242 learning badges. Student feedback was very positive and encouraging. UWF plans to offer the course again in Summer of 2017.

Escambia County FL GIS Users Group recently held their second meeting on June 23rd, 2016. Mr. Nathan McKinney from UWF presented on several GIS Projects he and his students have been working on including a Pensacola Parks Public Space Index Evaluation Map - <http://geo.uwf.edu/parks/> and a UWF campus map - <http://geo.uwf.edu/map/>. Mr. Paul Kelly from City of Pensacola GIS will be presenting at the next quarterly meeting in September. The date remains to be determined. Escambia County FL GIS Users Group recently held their second meeting on June 23rd, 2016. Mr. Nathan McKinney from UWF presented on several GIS Projects he and his students have been working on including a Pensacola Parks Public Space Index Evaluation Map - <http://geo.uwf.edu/parks/> and a UWF campus map - <http://geo.uwf.edu/map/>. Mr. Paul Kelly from City of Pen-sacola GIS will be presenting at the next quarterly meeting on September 15th. It will be held 1-2:30 pm in the Public Safety Building.



Executive, Tom Tibbitts

Looking ahead in the coming months, the Northwest Florida GIS (NWFLGIS) User Group will be holding their Fall conference in October. Be on the lookout for more details as they become available.

Northwest Region: No Report

Central Section

The Central Section is continuing to participate in local user groups and assisting in promoting GIS networking. The Polk County GIS users group held an user group meeting in Bartow, FL back in May. More than 30 Polk County GIS users attended a great meeting and presentation. For those in the Polk County visit: <http://polkgis.com/> to learn more and stay informed on upcoming Polk County GIS events. In addition to the Polk County users group, remember to visit <http://www.cfgisworkshop.com/> to register for the upcoming 10th annual CFGIS Workshop in Daytona Beach, where FLURISA always has a presence. In addition to local GIS users group and upcoming workshops, it was great to see so many GIS professionals this year at the Esri Users Conference in San Diego. Florida was very well represented at the conference and it was great to have an opportunity to see so many familiar faces and continue sharing and learning. The Central region and FLURISA are very proud to see so many great networking opportunities both in Florida and beyond. Keep up the great collaboration Central Florida and enjoy the rest of summer.

Gatorland Region: The Gatorland region is led by Heather Hardester who has been assisting FLURISA behind the scenes in many ways. The Gatorland region has been working hard to promote knowledge of who FLURISA is and assist in encouraging and information the next generation of GIS professionals.

East Central Region: FLURISA is happy to welcome our newest regional director Casey Rogers to the position of East Central Regional director. Be sure to visit the FLURISA website to meet all of our board members to contact and learn more about what FLURISA is doing.



Executive, Keith Smith

SunCoast Region: The SunCoast region position is currently vacant and FLURISA is actively looking for a member in the Tampa area who would like to join us. Remember that all FLURISA participation is eligible for GISP points. Please contact the Central Executive or any FLURISA board member to learn more.

South Section

As the South Section goes through another Florida hurricane season, our regional directors Andy Baranowski and Amy Hoyt have been hard at work supporting local upcoming conferences. In the Gold Coast section the South Florida GIS Expo (September) and in the Southwest section the GIS Symposium (October) will be held and supported by FLURISA. Please join us as we highlight the wonderful accomplishments of our different regions!

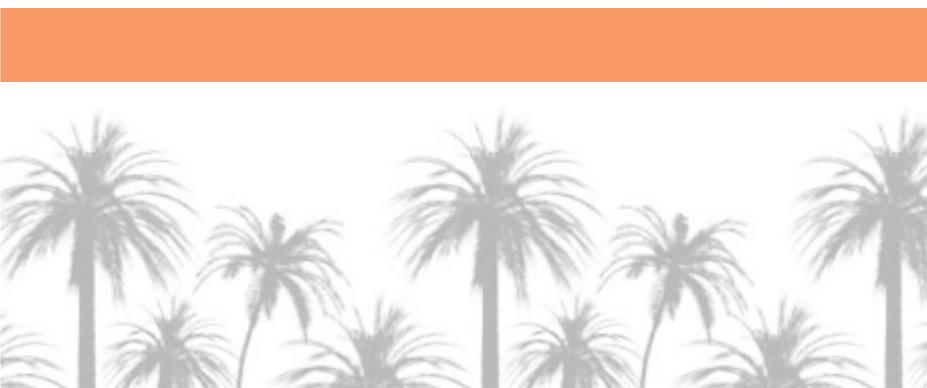
Treasure Coast: The Treasure Coast section will be having its user meeting on August 25th, at 1:30, at the Fenn Center, on Virginia Ave in Ft. Pierce.. This will be the first of 2 meetings this year, so make sure to attend!

Southwest Coast: The 2016 Southwest Florida GIS Symposium is set for October 27th. Hosted this year by Lee County Government in Fort Myers, we have several new sponsors and expect about 150 GIS professionals to spend the day sharing their GIS successes, networking, and displaying creative maps. The day ends with a social and raffle prizes. For more information check out the symposium website: <http://www.leegov.com/gis/gis-symposium>.



Executive, Jennifer Marangos

Gold Coast: The Gold Coast section is preparing for the 2016 SFGIS EXPO which will be held during the last week of September at the Palm Beach County Convention Center. We are continue to promote FLURISA to our GIS peers and encourage anyone who is not a member to join us.



FLURISA FEATURE ARTICLE



DUNES WEST STORMWATER SYSTEM GIS INVENTORY AND ASSET MANAGEMENT

Dunes West Property Owners' Association, Mount Pleasant, SC

The Dunes West development was built in the early 1990s and is an upscale mixed development community located in Mount Pleasant, South Carolina. East of the Cooper River and just outside of Charleston, the community bills itself as having a "low country setting with lush natural surroundings." Low country is a term typically used to describe South Carolina's coastal counties, which are characterized by numerous creeks and rivers, sea islands, and tidal marshes with very little elevation change and a shallow water table. Maintaining the health of this unique coastal habitat is a continuing challenge for the Dunes West Property Owners' Association (POA). Excess stormwater can flow into the river, creeks, and marshes carrying chemicals, harmful nutrients, bacteria, and other pollutants. The high water table and surrounding water bodies also make flooding a concern. If stormwater cannot quickly and safely drain from streets and neighborhoods water can reach levels that endanger public safety and threaten public and private property.

The POA understands the potential issues related to stormwater management and has chosen to actively promote water quality initiatives and environmental health rather than simply working to avoid negative consequences. To this end, they have partnered with Four Waters Engineering, Inc. (4Waters) to employ the power and flexibility of GIS to spatially enable the stormwater data and build a full-featured stormwater asset management system. This system offers a strategic approach by tying detailed data to geographic locations, to help ensure that deficiencies in their stormwater system are identified, addressed, tracked and monitored.

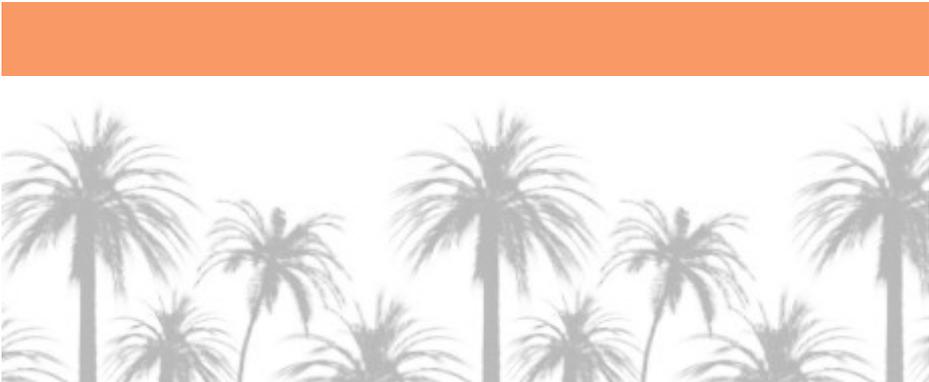
4Waters worked closely with the POA to develop a GIS stormwater database to be used in conjunction with a full Web-based GIS system housed and managed by ROK Technologies, Inc. 4Waters staff conducted a thorough survey and inventory of the entire stormwater system, spatially locating and identifying more than 1,100 individual stormwater structures by means of sub-meter GPS data, as-built CAD data, custom data input forms, and digital imagery. The stormwater structures included curb inlets, catch basins, grate inlets, junction boxes, spillways, outfalls, and drainage pipes. In addition, data was incorporated for 68 stormwater ponds. This survey provided a library of information detailing the condition and performance of individual structures throughout the stormwater system.

The field data was imported into ArcGIS and formatted with Visual Basic scripts. The resulting GIS database includes an image catalog and feature data for each stormwater structure. In addition, the database includes condition data for individual structures, allowing the POA to identify needed maintenance and improvements required for continued proper operation of the stormwater infrastructure. The GIS stormwater database allows the POA quick access to infinite combinations of data to study and compare, which helps them prioritize stormwater projects.

One of the projects identified using the asset management system is a drainage analysis of the stormwater pond system, including a pond that is tidally influenced via a ditch connected to the Toomer Creek marsh. The tidal influence of the stormwater system causes inconsistencies in stormwater storage capacity, saltwater intrusion, and upstream flooding of drainage systems during extreme tides. 4Waters is currently using the GIS stormwater database to export data to an Interconnected Channel and Pond Routing Model (ICPR) to efficiently create a pipe network and hydraulic model to assist with evaluating the system. The three primary elements in an ICPR model are basins, nodes and links, which are dynamically used to route stormwater through ponds, open channels and/or closed conduits. By importing data associated with the stormwater pipes, ponds and drainage structures, via a DBF or XML file, large quantities of data can populate various required fields and save valuable project time. Once the data is imported and the model is scrubbed for any inconsistencies, the program's unique solution algorithm allows it to simulate a wide variety of complex conveyance system scenarios, as well as identify areas of concern with slope, flow issues and potential structural deficiencies.

By utilizing GIS as a strategic asset management tool, the Dunes West POA can effectively and efficiently define immediate and future needs, identify and prioritize system improvements, and ultimately control stormwater runoff, improving water quality and minimizing flooding within its neighborhoods.

Laura Constantino, MSE
GIS/Engineering Manager
Four Waters Engineering, Inc.
<http://4WEng.com>



FLURISA SPONSOR ARTICLE

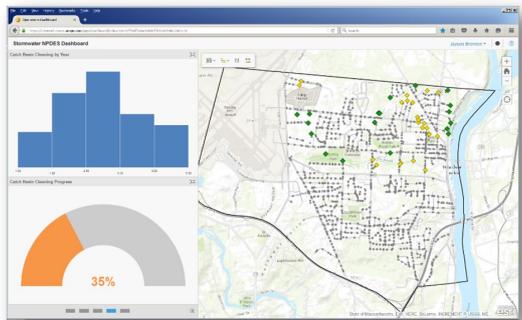


CDM Smith: Applying AGOL

It seems like everyone has their own personal pocket computer these days. Whether it be Android or iOS people want their information on the go. To keep up with this trend Esri has been creating and updating some great online features through ArcGIS Online. ArcGIS Online is a quick and easy part of the ArcGIS suite and can be used to leverage other great ArcGIS applications. A user can create a map by searching for data within their organization, adding a layer from an ArcGIS server web service, or uploading data which is in GPX, CSV, TXT, gdb, or shapefile format. Once the map is made it can be viewed in the online map viewer, ArcGIS Desktop, or even be made into a 'Prezi-like' presentation allowing users to select a slide and zoom to a certain area. Within the online mapping environment there are also tools for analysis such as hot spot analysis and creating buffers. The map can be shared and edited by multiple users. ArcGIS Online is an effective tool for visualizing and sharing data; it's real power is serving as a base format for other applications. Once an online map is created, it can be used for statistics and analysis through the Esri Operations Dashboard, it can be used to support data collection and editing in the field through the Esri Collector application, and it can be used to make a custom application in Web AppBuilder.

Esri Operations Dashboard

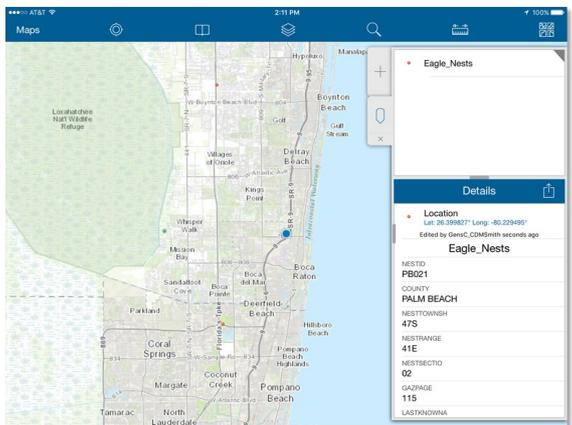
The Operations Dashboard is a free download that can be used on your desktop, tablet, or phone. Once a user is signed in to the Operations Dashboard they simply sign-in and create a new dashboard. There is a multi-display operation view and a single operation view. These differences are depending on the user's needs. The multi-display view can support multiple mapping widgets. Widgets are each metric you want to use, for instance there are bar graphs, pie charts, legend, query, summary, and so on. Also custom widgets can be added that users have created. These are made using JavaScript and can be added at the widget screen. This application is great for data that updates frequently. Say for instance a user is interested in Bald Eagle Nests and has field workers going out and collecting information on them. The user can create a dashboard like the one below which will update when new information comes in. The pie and bar chart are examples of widgets. If the user had a quota of 250 nests to collect in Polk County they can monitor the progress of data coming in live with this application. At CDM Smith we have used the Operations Dashboard to track the progress of cleaning catch basins. This provides the client a real-time look at the progression of a project.



The Operations Dashboard is extremely powerful and can be used to monitor statistics and the progress of data.

Collector Application

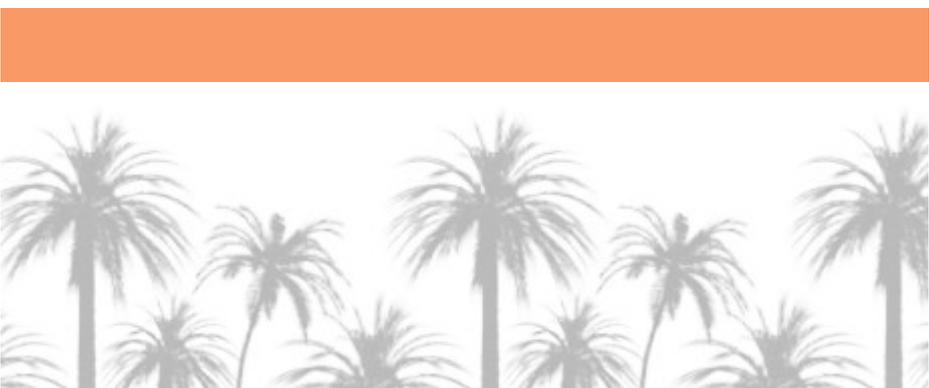
Esri Collector is just as the name suggests, used to collect data. The Collector application uses premade ArcGIS online maps to collect and edit information and can be used on a tablet or phone. It is very important that the tablet or phone is enabled with cellular data or connected to a portable wifi device. In order to get data or information into the collector app editing must be enabled for the map and feature layer. Attribute information can also be edited by simply selecting a feature. Therefore if a user wanted to say collect eagle nest locations and



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Special thank you to our sponsors!

Please email FLURISA if you would like to become a sponsor. Please join us.



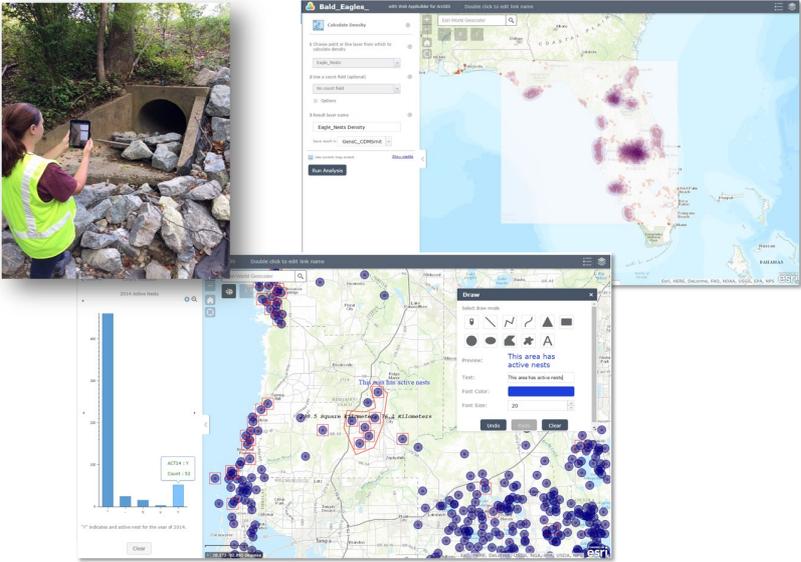
FLURISA SPONSOR ARTICLE CONT..



update them live they would just need a tablet or phone and an ArcGIS Online map with editing enabled. This simple but powerful application has made data collection easy and seamless.

Esri Web AppBuilder

The Esri Web AppBuilder is a lot like operations dashboard in the sense of widgets. The user can add a variety of widgets to their app. The way AppBuilder differs from the Operational Dashboard is that the AppBuilder output is meant to be interactive. The end user is supposed to use the widgets to make charts and run analysis. The dashboard is more of well, a dashboard, the widgets are meant to stay and is used for tracking and statistics. There are quite a variety to choose from. From a widget used for calculating density to a widget that's used for drawing and making comments. Much like the other apps AppBuilder uses an ArcGIS Online Web Map as a base and widgets are added to it. Therefore once a user has collected eagle nest data using the Esri Collector application and monitored the progress of collection using the Operations Dashboard they can make an app using the Web AppBuilder for anyone to use.



Bald Eagle Nesting Locations shapefile acquired from fgdl.org "Florida Geographic Data Library" and the [Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute](http://www.fwc.com).

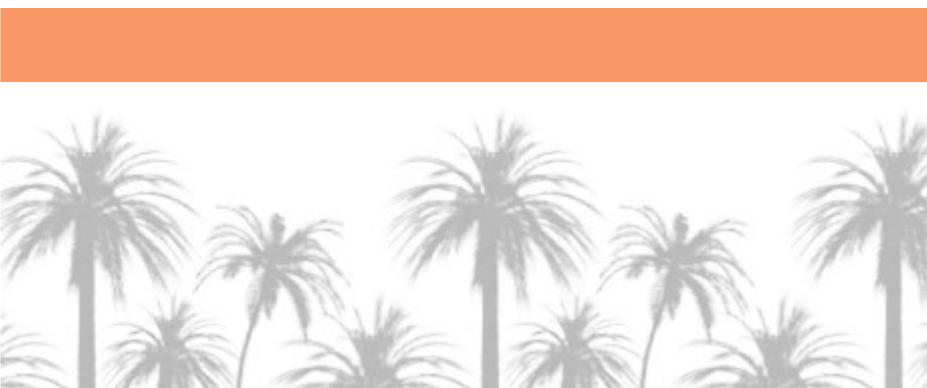
Corey Gens,
CDM Smith

Don't forget to mark your calendars for the 3 Regional Workshops coming up this year!

Central Florida GIS Workshop
September 19-20, 2016
Ocean Center
101 N Atlantic Ave
Daytona Beach, FL

2016 South Florida GIS EXPO
September 29-30, 2016
Palm Beach County Convention Center
650 Okeechobee Blvd
West Palm Beach, FL

SHRUG 2016 Workshop
November 16 & 17, 2016
August B. Turnbull III
Florida State Conference Center
555 W. Pensacola St
Tallahassee FL, 32306



FLURISA OPPORTUNITIES



FLURISA is happy to announce that there are several different ways to get involved with the Florida URISA chapter, including membership, volunteering and sponsorship opportunities.

Membership:

Thank you for your interest and support. We wouldn't be FLURISA without you. FLURISA is what we make it!

Volunteering Opportunities:

FLURISA currently has a few openings on the board, **Suncoast and Northwest Florida positions**. These are 2 year commitments.

The positions of **Newsletter Editor and Assistant Editor** are also open. We are looking for someone in GIS who has a knack with words and pulling together newsletters. No experience is needed but experience with software like Publisher is a PLUS. Newsletters go out every quarter. You will coordinate with the FLURISA board to pull together articles of GIS events, stories and activities going on throughout the state of Florida. You're asked to attend a max 1 hour board meeting via webinar/phone a month. Time is estimated between 3-8 hours a month and you would coordinate with the current Newsletter Editor(s) and Executive Board. This position is what you make it. This position provides an opportunity to gain volunteer points for GISP certification. (This is a non-voting position and requires you to be a paid FLURISA member.)

Don't forget your volunteer hours are a great way to gain GISP points and be a part of the larger GIS community. If you are interested in volunteering please contact flurisa@flurisa.org and cc Allen Ibaugh (aibaugh@dtsgis.com).

Sponsorship Opportunities:

This past year FLURISA expanded its sponsorship portfolio of opportunities in order to provide significant products and services to FLURISA members and the GIS community as a whole. If you are currently a sponsor, or are thinking about becoming one, please consider supporting our organization www.flurisa.org.

Thank you.

New Opportunities for Continuing Education through ESRI

Esri will give all customers that have a qualifying product with a current maintenance subscription unlimited access to free self-paced e-Learning through its new Training website, Esri president Jack Dangermond announced today.

"Esri encourages lifelong learning," Dangermond said in announcing the complimentary e-Learning at the Esri User Conference (Esri UC) in San Diego, California. "We are happy to offer organizations the opportunity to train more people in their workforce in how to use Esri ArcGIS at no additional cost."

Some of the components to be offered are:

- Web courses
- Training seminars
- Esri videos
- [Learn ArcGIS](#) lessons
- Massive Open Online Courses (MOOCs)
- Teacher resources including [Geolnquiries](#) and [SpatialLABS](#)



2016 GIS-Pro Conference Student Competition

- Are you enrolled in a geospatial technology course?
- Are you age 18 or older?
- Are you interested in attending the 54th Annual URISA GIS-Pro Conference?
- Get recognition for your research and network with geospatial professionals!

Submit all questions and applications to urisa.vc@gmail.com
Full details available at:
<https://sites.google.com/site/gispro2016studentcompetition/>

1st Prize \$500

2nd Prize \$300

3rd Prize \$200

All prizes also include:
Free Conference Registration
Free URISA Student Membership
Free 1st year URISA Young Professional Membership

October 31-November 3, 2016 Toronto, Ontario

