USGIF SLAWG
Monthly Meeting

August 28, 2019
Agenda

- T-REX/Geosaurus Welcome
- Harris-Stowe State University, Freddie Wills
- Geomentors for the Invention Scouts, Michael Baer
- Teach MO Maps!, GIS Day @ Lindenwood University, Meredith Marsh
- Gateway Geospatial Forum, USGIF, Ronda Schrenk
- SubCommittee Updates
  - University/R&D Subcommittee (Patricia Hagen)
  - Workforce Development (Enbal Shacham)
  - K-12 Subcommittee Update (Shelby Wratford / Sekhar Prabhakar)
Introductions

• Name
• Organization
What is the SLAWG?

The SLAWG is a volunteer-based group formed under the U.S. Geospatial Intelligence Foundation (USGIF), a 501c3 educational nonprofit dedicated to supporting the geospatial intelligence tradecraft. It is a group of industry, government, academic and community partners with a goal to clarify pathways for education and training for geospatial careers and certifications in the St. Louis region, and identify needs for new pathways to integrate with existing efforts.
Calendar of Events

September

- **11** - Geosaurus Unleashed, T-REX, 5 – 7 pm
- **25** - USGIF SLAWG Monthly Meeting, Herbert Hoover Boys & Girls Club/Best Buy Teen Tech Center, 2901 N. Grand Blvd, 1 – 3 pm
- **25** – Use of GIS in Countering Wildlife Trafficking, Dr Odean Serrano, COLLAB @ CORTEX, 4220 Duncan Avenue, 9 – 10:30 am
- **26** – Esri GeoAI Event, Havana Room @ CIC@4240, 4240 Duncan Avenue, 1 – 3 pm

October

- **1** – GIS Day, Lindenwood University, 9 am – 2:30 pm
- **7** – USGIF Geospatial Gateway Forum (GGF) Job Fair, America’s Center Convention Complex, 10 am – 4 pm
- **7** – GGF YPG Networking Reception*, T-REX, 3 – 5 pm ($)
- **7** – GGF Welcome Reception*, TBD, 4:30 – 7 pm
- **8** – GGF Show Me the Geospatial Tradecraft!* America’s Center Convention Complex, 8 am – 4:30 pm
- **9** – GGF Classified Tech Day*, NCW, 7 am – 3 pm
- **9** - Geosaurus Unleashed, T-REX, 5 – 7 pm
- **30** - USGIF SLAWG Monthly Meeting, Taylor Community Science Resource Center (SLSC), 4900 Manchester Ave, 2 to 4 pm

November

- **13** - Geosaurus Unleashed, T-REX, 5 – 7 pm
- **TBD** – STL GeoPlunge
- **20** - USGIF SLAWG Monthly Meeting, Clyde C. Miller Career Academy High School, 1000 N. Grand Boulevard, 3 to 5 pm

December

- No official meeting, possible holiday social.
- **11** - Geosaurus Unleashed, T-REX, 5 – 7 pm

SAVE THE DATE: March 25, 2020 – NGA/SLU GeoResolution!

*Some events have a registration fee associated with GGF.
Members & Community Publications

• EQStl: Geosaurus’ Gigantic Plan To Push Talent Towards St. Louis’ Next Innovation Frontier
  • https://eqstl.com/stl-innovation-frontier-geosaurus/
  • Geosaurus and Geodata IT quoted! Wooohoooo!
T-REX – Host Company

Patricia Hagen
Harris-Stowe State University
Freddie Wills
Missouri Louis Stokes Alliance for Minority Participation (MOLSAMP)

Presented to
St. Louis Area Working Group (SLAWG)
August 28, 2019
By
Freddie E. Wills Jr., PhD – Director, MOLSAMP
What is LSAMP

Louis Stokes Alliance for Minority Participation

- An alliance based program focused around the Tintos Model

- Assist universities and colleges with diversifying the nations STEM workforce

- LSAMP provides funding to alliances for providing comprehensive, evidence-based, innovative, and sustained strategies for ultimately graduating URM’s and advancing them to graduate school and careers
MOLSAMP Objectives

A nine institution alliance that aims to:

• Double the graduation count of URM STEM students across nine Missouri Colleges & Universities
• Increase first and second year retention to at least sixty percent
• Increase 2 year to 4 year transfer rates by twenty-five percent
• Increase undergraduates enrolling in graduate school by twenty-five percent
MoLSAMP Institutions

- Harris-Stowe State University
- Lincoln University
- Missouri State University
- Truman State University
- University of Central Missouri
- University of Missouri – Columbia
- University of Missouri – St. Louis
- Washington University in St. Louis
Tintos DropOut Model (1975)
MOLSAMP Approach

• Intrusive Academic Advising

• Summer Bridge Program

• Summer Sophomore STEM Institute

• Undergraduate Research Symposium

• Internship Opportunities
MOLSAMP Institutional Activities

Harris-Stowe State University
• Undergraduate Research
• Academic Support
• Graduate School Prep

Missouri State University
• Undergraduate Research
• Graduate School Prep
• Retention Services

University of Missouri – Columbia
• Summer Research Internships
• Academic Advising
• Undergraduate Research

Lincoln University
• Academic Support
• Undergraduate Research
• Graduate School Prep

St. Louis Community College
• Internships
• Transfer Services

University of Missouri – St. Louis
• Intrusive Academic Advising
• Graduate School Prep
• Undergraduate Research

Truman State University
• Intrusive Academic Advising
• Retention Services
• Undergraduate Research

University of Central Missouri
• Intrusive Academic Advising
• Summer Bridge Program
• Undergraduate Research

Washington University in St. Louis
• Professional Development
• Summer Research Internships
• Undergraduate Research
MOLSAMP Questions
Geomentors for Invention Scouts

- Michael Baer
GeoMentors, Innovation Scouts, and ESRI

Michael Baer
baermj@gmail.com
GIVE BACK—BE A GeoMentor

What is the AAG-Esri GeoMentors Program?
Esri and the American Association of Geographers (AAG) are working together to develop a nationwide network of GeoMentors to support Esri’s donation of free GIS software to K-12 schools and youth clubs in the U.S. GeoMentors help schools and teachers incorporate GIS and geographic concepts into classrooms across the country.

Who can be a GeoMentor?
From undergraduate and graduate students to professors and geographic information scientists, we welcome the entire GIS and geographic community to volunteer their skills and experience as GeoMentors.

What do GeoMentors do?
GeoMentors play a pivotal role in improving GIS and geography education. The wide variety of outreach opportunities include advocating GIS adoption, helping schools get their free software, demonstrating available classroom exercises to teachers, and providing information about career and educational opportunities. Many resources are available for GeoMentors to use.

If each GeoMentor connects with one educator or school to share geographic concepts and GIS resources, we can make a profound impact on K-12 education.

Join the GeoMentor Community
To become a GeoMentor sign up at www.GeoMentors.net
For questions or more information, contact program staff at geomentors@aag.org

Teachers

How Can Teachers Benefit from the GeoMentors Program?
Esri is donating free ArcGIS geographic information systems (GIS) software to all U.S. K-12 schools and youth clubs to introduce geospatial technology and geographic concepts to students. The American Association of Geographers (AAG) is working with Esri to build a nationwide network of GeoMentors to assist educators with using their free software with students, who can map and analyze data with the same software used by government and businesses.

How can GeoMentors help bring GIS into your classroom?
GeoMentors are knowledgeable GIS users ready to adapt to the unique needs of each educator, school, and student group. They can help set up your free software, demonstrate classroom exercises, provide information on career opportunities including STEM-related fields using GIS, or help develop new activities based on your particular student audience. ArcGIS can be used for all subjects and grade levels to support curriculum standards and enhance students’ experience with technology.

What resources are available for teachers?
The GeoMentors program maintains online maps and databases for collaborators to connect with each other, a curated collection of ArcGIS educational resources and curriculum materials for different subjects and grade levels, as well as newsletters and social media for community engagement and interaction.

Help Your Students Gain Spatial Thinking Skills
Collaborate with a GeoMentor: visit www.GeoMentors.net
For questions or more information, contact program staff at geomentors@aag.org
INVENTION JAMBOREE 2019

“Become an Inventor for Life”

When: September 13-15, 2019

Where: Lake of the Ozarks Scout Reservation 525 Camp Hohn Dr Gravois Mills, MO 65037

Who: Scouts BSA, Venturing, Exploring from ALL Councils

Cost: $35/scout or adult if registered by 8/1, $40/scout or adult after 8/1. Late fee of $10 for registrations after 8/31. (cost includes program, lunch & dinner Saturday, and a patch)

Registrations open @ www.bsa-grc.org. Capacity is 500 max. Registrations will close once capacity is reached.

Program Overview

Choose a path:

Path A (George Washington Carver): Shooting, Invention Lab, Blacksmith, Search & Rescue/Geospatial Mapping

Path B (Edwin Hubble): Climbing, Invention Lab, Welding, Robotics

Path C (James Ferguson): Drones, Invention Lab, Woodworking, Design

Invention Competition

(optional)

Want to show off your invention?

Sign up for the Invention Competition! Scout and adult division. Prizes and plaques for top 3 places.

For questions, contact Thomas Yang at thomas.yang@scouting.org

Invention Exhibits

Checkout trailers, inventions, and more from various organizations in and out of Missouri!
Prepare for Search and Rescue Incidents
By Alix Vezina and Paul Doherty

Create a web app to help search and rescue teams respond to an incident. 3 hours

During a search and rescue (SAR) operation, officials don’t have time to wait until a GIS specialist is on scene. They need maps immediately. Preconfigured and ready-to-use GIS tools must be available to SAR teams before an incident occurs.

In this lesson, you’ll create a web map to prepare data for search operations. Your map will contain static base data showing regional boundaries and key features, as well as editable layers that can be changed as an incident develops. Then, you’ll use the map to create a web app that even non-GIS professionals can use. Finally, you’ll use the app to track a fictional SAR mission.

Lesson plan

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Create a map</td>
<td>Create and configure a web map with base and incident data.</td>
<td>30 minutes</td>
</tr>
<tr>
<td>Create an app</td>
<td>Create and configure a web app with tools to support search operations.</td>
<td>1 hour 15 minutes</td>
</tr>
<tr>
<td>Map a search operation</td>
<td>Use the app to map a fictitious search and rescue operation as it happens</td>
<td>1 hour 15 minutes</td>
</tr>
</tbody>
</table>

Builds skills in
Creating Apps | Getting Started | Sharing and Collaboration

Focus industry
Public Safety

Requirements
Publisher or Administrator role in an ArcGIS organization (get a free trial) or ArcGIS Enterprise

About Alix Vezina and Paul Doherty
Getting to Know the Homeless Solutions
This story map describes the capabilities provided in the Homeless solution templates and how you can leverage these capabilities in your organization.

10 min

Getting to Know Capital Project Planning
This story map describes the capabilities provided in the Capital Project Planning solution templates and how you can leverage these capabilities in your organization.

10 min

Build a Geodatabase to Support Salzburg Tourism
Use a geodatabase to create, store, and manage geographic data for Salzburg, Austria.

1 hr

Getting Started with ArcGIS Urban
As an urban planner in San Francisco, develop the Mission Bay area to promote growth and support and increases in population and jobs.

30 min

Enhance your Area of Interest with the Community Maps Editor
Use the Community Maps Editor application to create detailed basemap data for your school campus, community center, and other important areas.

49 min

Getting to Know the New ArcGIS StoryMaps
Try the new ArcGIS StoryMaps builder experience.

1 hr 5 min

Update Real-Time Data with Python
Automate a Python feed routine to show the latest data on coral bleaching.

1 hr 30 min

Digitize Your Neighborhood with Community Maps
Use the Community Maps Editor to practice adding detail to basemaps.

30 min
Resources

• GeoMentors (It’s really fun you should join.)
• Free GIS Lessons
• Free GIS Training of Educators
• ESRI Schools Mapping Bundle (Every public, private, home school, and youth-serving club is eligible.)
Teach MO Maps!

Lindenwood University - Saturday, Sept. 28, 2019

Tara Vansell | August 23, 2019

https://storymaps.arcgis.com/stories/d3912bbb053e4ebb9f2ea73ddbeea8f8
Teach MO Maps!

Teach MO Maps! is a professional development opportunity for K-12 educators in the state of Missouri seeking an introduction to teaching with ArcGIS Online.

Whether you teach social studies, English language arts, mathematics, or science this workshop will show you how to implement the ArcGIS Online catalog of lessons and tools into your classroom. Get your students learning through inquiry using the Geoinquiries, analyzing datasets in the Living Atlas, getting out of the classroom using Survey 123, mapping their world using the Community Maps Editor, and articulating their discoveries using Story Maps.

A $50 stipend will be paid to participants.
Lindenwood - Saturday, Sept. 28 - 10:00 a.m. - 4:30 p.m.

Register Here by September 13th
Workshop Topics Covered

GeoInquiries

Esri GeoInquiries™ for schools
GeoInquiries™ are short, standards-based inquiry activities for teaching map-based content found in commonly used textbooks. Each activity is designed...

https://www.esri.com

The Living Atlas

Living Atlas of the World | ArcGIS
Living Atlas of the World

https://livingatlas.arcgis.com
Survey 123

Survey123 for ArcGIS | Create Smart Surveys & Forms ...
Part of the Esri Geospatial Cloud, Survey123 for ArcGIS is a complete, form-centric solution for creating, sharing and analyzing surveys. Use it to create...
https://www.esri.com

Community Maps Editor

Enhance your Area of Interest with the Community Maps Editor
Use the Community Maps Editor application to create detailed basemap data for your school campus, community center, and other important areas.
https://formarcgis.com
Story Maps

Storytelling that resonates.
Create inspiring, immersive stories by combining text, interactive maps, and other multimedia content. Publish and share your story with your organization...

https://storymaps.arcgis.com

Setting up your school’s organizational account

Schools Mapping Software Bundle for Grades K-12 | ArcGIS for Schools
The ArcGIS for Schools Bundle is available at no cost for instructional use to individual US K-12 schools, school districts, and states direct from Esri. Beyond the United States, the bundle is available to schools...

https://www.esri.com
Meet the Instructors

Tara Vansell M.A. - GIS Lab Manager - Lindenwood University

Tara has been the GIS instructor at Lindenwood University since 2011. She completed the intensive Esri T3G (Teachers Teaching Teachers GIS) training in 2016. This is her third year of organizing and instructing Teach MO Maps!
Sarah A. Coppersmith, Ph.D., has most recently served as assistant research professor at the University of Missouri St. Louis QTEL program and as adjunct professor of geography in the Humanities Division at Lindenwood University. Recent research and professional development for teachers includes a focus on in-service and pre-service teachers’ application of linguistically and culturally responsive teaching practices with immigrant/refugee youth; stress, self-efficacy, and inquiry learning of pre-service teachers; explorations of inquiry learning in the Fur Trade Era in the Mid-Mississippi Valley in an International Baccalaureate Language Immersion setting; teaching with primary sources to support geo-history via geospatial technology; and moral agency and pro-social beliefs of undergraduates studying world regional geography, global citizenship, and distant suffering.
Bob Coulter Ed.d.

Bob Coulter is director of the Litzsinger Road Ecology Center, a field site managed by the Missouri Botanical Garden. He has more than 20 years of experience using GIS directly with young students and in supporting teachers in their use of GIS to extend student inquiry. In ancient days he was an elementary grade teacher for 12 years.
GIS day at Lindenwood University, You're Invited!

Tuesday, October 1, 2019

Tara Vansell | August 17, 2019

https://storymaps.arcgis.com/stories/ff627a3fbbab242c8b6a9946248aaf83
You're Invited to Lindenwood University's 6th Annual GIS day!
What is GIS?
What is GIS day at Lindenwood University?

GIS professionals throughout the St. Louis region gather together to share with students, faculty and the general public how GIS is being used in their community. In turn, GIS students and faculty from throughout the St. Louis region present GIS projects and research to the professional community and general public.

When is GIS day at Lindenwood University?

Tuesday, October 1, 2019 from 9:30 a.m. - 2:30 p.m.
Where is GIS day at Lindenwood University?

Spellmann Center, Anheuser-Busch Leadership Room, Fourth Floor
Who is invited to GIS day at Lindenwood University?

You! Lindenwood University’s History and Geography Department and the St. Charles GIS User Group invite you to participate in this event. Cost = FREE

Exhibitor/Presentor Registration

Be on the Map! Register Today!
Presentations

Partnering with HigherEd: Designing an Effective Internship Program for your Organization – Tara Vansell, GIS Lab Manager, Lindenwood University

St. Louis Food Bank Service Learning Project – SP19 Advanced GIS

Lightning Talks – Exhibitors
Further Questions?

Tara L. Vansell / GIS Lab Manager, History and Geography

Lindenwood University / 209 South Kingshighway • St. Charles, MO 63301

tvansell@lindenwood.edu / LinkedIn / Facebook / Twitter / lindenwood.edu
USGIF Gateway Geospatial Forum

https://usgif.org/events/GeoGatewayForum

Ronda Schrenk
DON’T MISS THESE EVENTS

AUGUST 27
USGIF Working Group Summit
Trajectory Event Center, Herndon, VA

SEPTEMBER 10
GEOINTeraction Tuesday
Trajectory Event Center, Herndon, VA

SEPTEMBER 24
Commercial Space Policy Breakfast
Trajectory Event Center, Herndon, VA

SEPTEMBER 27-28
GEOINTegration Summit
Trajectory Event Center, Herndon, VA

OCTOBER 7-9
Geospatial Gateway Forum
(Formerly Tech Showcase West) St. Louis, MO

OCTOBER 16
YPG Disaster Response Workshop
Esri, Vienna, VA

NOVEMBER 18-22
GEOINT Community Week
Northern Virginia

NOVEMBER 23
GEOGala
Hyatt Regency Reston, VA

usgif.org
Workforce Development Subcommittee Update
Enbal Shacham, PhD, Subcommittee Lead
Workforce Development Subcommittee

• Met with the University R&D Subcommittee and reviewed the TEConomy report (8/20/19)

• Met with St. Louis County Workforce and WIB representatives to discuss workforce opportunities in the region (8/19/19)
  • County also serves to help post geo-related jobs in region, share with them
Next Steps

• Next steps:
  • Survey industry partners what are the skill sets they are seeking
  • Identify training opportunities through region
    • GEOINT opportunity
  • Please work through established state and local job posting databases to bolster the job searching process and helps identify local need
K-12 Subcommittee Update

Sekhar Prabhakar
Subcommittee Chair
K-12 Subcommittee Activities

Sekhar Prabhakar
K-12 Subcommittee Lead

USGIF
St. Louis
Area
Working
Group
SLAWG K-12 Collaboration Partner
GatewayGIS Update

2019 Freshman Orientation at Clyde C. Miller Career Academy High School (August 2, 2019)
GatewayGIS Update

• Throughout August 2019, Dr. Robert Gaskill-Clemons, the Chief Technology Officer for the City of St. Louis, visited each of the three partnering organizations of the GatewayGIS Tripartite Model.

• August 20 and 21, 2019: Mr. James Forbes, the Co-Founder and CEO of Good Life Growing LLC, and Dr. Robert Gaskill-Clemons participated in the GatewayGIS Open House at Clyde C. Miller Career Academy High School.
GatewayGIS Tripartite Model

• Anchor School Component
  Clyde C. Miller Career Academy High School

• After-School Component
  The Best Buy Teen Tech Center at Herbert Hoover Boys and Girls Club

• Weekend Components
  Saint Louis Science Center Youth Exploring Science (YES) Program and Recommended “Drop-In Sites” throughout St. Louis, Missouri
Dr. Odean Serrano

- **Date:** September 25, 2019
- **Time:** 9:00 a.m. — 10:30 a.m.
- **Location:** COLLAB @ Cortex—(3rd floor)
- **Address:** 4220 Duncan Avenue, St. Louis, MO 63110

- For more information contact:
  - Ness Sandoval at ness.sandoval@slu.edu or Roz Norman at stlgatewaygis@gmail.com

Sponsored by: Saint Louis University, GeoSLU, and GatewayGIS
• In September 2019, GatewayGIS will be listed as the first GIS/STEAM workforce development pipeline initiative among partners of *American Graduate—Getting To Work*, a program of the Corporation of Public Broadcasting at the Nine Network of Public Media (also known a PBS KETC-TV, Channel 9 in St. Louis, MO).

• Plans are underway for *GatewayGIS Civic Project Hackathon* for late Fall 2019.
University and R&D Subcommittee Update

Patricia Hagen, PhD
Subcommittee Co-Chair
Takeaways

Career Opportunities (Full-Time/Internships)
• Submit opportunities for marketing to slawg@usgif.org for distribution

Events/Messaging
• Submit calendar events to Tara Mott
• Flashtalks for the Next Meeting?

Members should look to join at least one sub committee and share GEOINT Opportunities!
Next Meetings

• September 25\textsuperscript{th}, Herbert Hoover Boys & Girls Club/Best Buy Teen Tech Center, 2901 N. Grand Blvd
  • 1 to 3 pm

• October 30\textsuperscript{th}, Taylor Community Science Resource Center (SLSC), 4900 Manchester Ave
  • 2 to 4 pm

• November 20\textsuperscript{th}, Clyde C. Miller Career Academy High School, 1000 N. Grand Boulevard
  • 3 to 5 pm

Looking for volunteers to host in 2020!
Thank You for Attending!