

Agenda

Presented by Joseph J. Kerski, PhD GISP

Spatial is Special!

- GIS definitions
- What are maps? Why are they relevant to 21st Century decision making?
- GIS software and organizations
- The whys of where
- Activity 1: spatial and attribute characteristics
- The modern GIS platform: maps, layers, apps, data services

Let's Get Mapping!

- Activity 2: a field survey, map, dashboard, and story map
- Activity 3: symbology: single symbol, graduated symbol, predominance maps, pie charts, ring chart maps
- Activity 4: creating expressions; analyzing change over space and time
- Activity 5: filtering data and working with isolines

Investigating Relationships

- Activity 6: bivariate and relationship mapping
- Activity 7: analyzing relationships with scatter plots and maps

How to get Data into a GIS

- Activity 8: mapping a spreadsheet discussion: vector data, imagery, raster data
- Activity 9: creating a field survey and online map
- Mappy Time! My favorite maps and map-related books. What are yours?

Communicating Your Results

- Demonstrate: web mapping applications including Living Atlas of the World apps
- Activity 10: creating a dashboard
- Activity 11: creating a story map
- Activity 12: spatial analysis I: natural hazards discussion on sharing – when and how to do it

Spatial Analysis

- Activity 13: spatial analysis II : Invasive species
- Activity 14: deep learning feature extraction from satellite imagery
- Activity 15: land records mapping, analysis, and visualization

GIS workflows and considerations

- GIS content organization
- ArcGIS Pro and GIS tools
- Data quality and the ethics of mapping
- Continuing your GIS journey
 - Books, organizations, tutorials
 - Associations, networks, events

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Fundamentals of Geographic Information Systems (GIS) for Planners, Engineers and Land Surveyors

Live, Interactive Webinar - Thursday, February 29, 2024



HalfMoon Education Inc.
PO Box 278
Altoona, WI 54720-0278

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Learning Objectives

You'll be able to:

Discuss the importance of GIS and identify relevant software and organizations.

Explore the modern GIS platform of maps, layers, applications and data services.

Learn about types of data, including vector data, imagery and raster data.

Participate in GIS activities, including creating a field survey and an online map.

Learn from an activity on land records mapping and analysis.

Discuss GIS content organization and data quality.



HalfMoon Education Live Webinars Fundamentals of Geographic Information Systems (GIS) for Planners, Engineers and Land Surveyors

Live, Interactive Webinar - Thursday, February 29, 2024



Examine GIS software and organizations

Explore the modern GIS platform of maps, layers, apps, and data services

Prepare mapping activities and input data into GIS

Analyze relationships with scatter plots and maps

Create a field survey and online map

Learn about web mapping applications

Discuss the ethics of mapping

Continuing Education Credits

Professional Engineers
6.5 PDHs

Land Surveyors
6.5 PDHs

Practicing Institute of Engineering (PIE)
6.5 PDHs

Certified Planners
CM|6.5



Webinar Information

Log into Webinar

8:30 - 9:00 am CST

Break

1:10 - 1:40 pm CST

Morning Session

9:00 am - 1:10 pm CST

Afternoon Session

1:40 - 4:20 pm CST

Tuition

\$319 for individual registration.

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Faculty



Joseph Kerski Ph.D. in Geography (University of Colorado Boulder), M.A. in Geography (University of Kansas), B.A. in Geography (University of Colorado Boulder)

Dr. Kerski is a geographer and educator focused on GIS-based curriculum development, research in the effectiveness of GIS in education; professional development for educators; communication about the need for geographic skills, tools, and perspectives through keynote addresses, articles, social media, and workshops; and fostering partnerships to support GIS in education. He has given two TED talks and has created over 5,000 geo-related videos. Dr. Kerski also teaches online and face-to-face courses at primary and secondary schools, through MOOCs, and universities such as Sinte Gleska University, Penn State, and the University of Denver. He is active in educational nonprofit organizations, including NAAEE, AAG, and NCSS, and he served as president of the National Council for Geographic Education. After serving as geographer at NOAA, US Census Bureau, and USGS, since 2006 Dr Kerski has served as education manager for Esri, providing thought leadership in geospatial technologies in formal and informal education at all levels, internationally. He has written books such as *Interpreting Our World*, *Spatial Mathematics*, *International Perspectives on Teaching and Learning with GIS in Secondary Schools*, *The Essentials of the Environment*, *Tribal GIS*, and *The GIS Guide to Public Domain Data*. As a lifelong learner, Dr Kerski feels as though he's just getting started and thus actively seeks mentors, partners, and collaborators.

Additional Learning

Deep Dive into Preconstruction Planning

- Tuesday, February 6, 2024 | 1:00 - 4:00 pm CST

Significance of GIS and GPS in Engineering & Surveying

- Tuesday, February 6, 2024 | 2:00 - 4:00 pm CST

Deep Dive into Horizontal and Vertical Alignment of Roadway Design

- Wednesday, February 7, 2024 | 1:00 - 3:00 pm CST

Federal Land Boundaries and Access Rights

- Wednesday, February 7, 2024 | 9:00 am - 4:00 pm CST

Innovative Onsite Wastewater Treatment Systems

- Wednesday, February 7, 2024 | 9:00 am - 5:00 pm CST

Urban Street Design

- Wednesday, February 7, 2024 | 9:00 am - 4:30 pm CST

Restoring Natural Areas in Urban Areas

- Wednesday, February 14, 2024 | 8:30 am - 5:00 pm CST

Credit Information

This webinar is open to the public and is designed to qualify for 6.5 PDHs for professional engineers and land surveyors in most states. Please refer to specific state rules to determine eligibility.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700) and North Carolina (S-0130). HalfMoon Education is an approved continuing education sponsor for land surveyors licensed in Indiana (License No. CE10600325), Maryland, and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and land surveyors via its registration with the Practicing Institute of Engineering (Regulations of the Commissioner §68.14(i)(2)). Most other states do not preapprove continuing education providers or courses.

This webinar has been evaluated for compliance with NYS Mandatory Continuing Education requirements for professional engineer and land surveyors by the Practicing Institute of Engineering, and has been approved for 6.5 PDHs.

This webinar has been registered with the Florida Board of Professional Surveyors and Mappers for 6.5 continuing education credits. This webinar has been approved by the Missouri APELSLA Board for 6.5 PDUs for land surveyors.

HalfMoon Education is an approved CM Provider with the American Planning Association. This course is registered for CM | 6.5 for Certified Planners.

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

On-Demand Credits

The preceding credit information only applies to the live presentation. This course in an on-demand format may not be eligible for the same credits as the live presentation; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate.

Drone Applications for Engineers

- Thursday, February 15, 2024 | 9:30 am - 4:50 pm CST

Handling Archaeological Issues on Construction Projects

- Thursday, February 15, 2024 | 9:00 am - 12:15 pm CST

How to Obtain, Interpret, and Change a FEMA Flood Map

- Friday, February 16, 2024 | 12:00 - 3:15 pm CST

Topographic Surveys, Easements and Original vs. Retracement Surveys

- Wednesday, February 21, 2024 | 9:00 am - 4:05 pm CST

Stream Restoration in the Eastern U.S.

- Wednesday, February 21, 2024 | 7:30 am - 3:30 pm CST

Deep Dive into Constructed Stormwater Wetlands

- Thursday, February 22, 2024 | 10:00 am - 12:00 pm CST

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