

2019 WASHINGTON GIS CONFERENCE Workshops

Details of Workshops May 20-21, 2019
 Costs: \$200 Full Day, \$100 Half day
 Registration with [WA GIS Conference](#).
 Lunch is not included

Artwork by: Jaelyn Layton

Monday, May 20

Full Day	8:30am	<input type="radio"/> Migrating to ArcGIS Pro (Full Day) Tripp Corbin	<input type="radio"/> Practical Python for the GIS Analyst (Full Day) Ann Stark
	8:30am	<input type="radio"/> Addressing: A Practical Guide (Half Day) Jeff Ledbetter	<input type="radio"/> Esri Application Configuration: Creating Apps with Minimal to No Custom Coding (Half Day) Scott Moore
Half Day		<input type="radio"/> Migrating to ArcGIS Pro (Full Day) Tripp Corbin	<input type="radio"/> Practical Python for the GIS Analyst (Full Day) Ann Stark
	1:30pm	<input type="radio"/> Getting Started with ArcGIS Enterprise 10.6.1 and ArcGIS Enterprise Sites – A Best Practices Approach (Half Day) Scott Moore	

Tuesday, May 21

Full Day	8:30am	<input type="radio"/> Editing Data in ArcGIS Pro (Full Day) Tripp Corbin
	9:00am	<input type="radio"/> Washington Government GIS Leaders meeting (Full Day) Stephen Beimbom • Joshua Greenberg
Half Day	8:30am	<input type="radio"/> Disaster Response and Preparedness (Half Day) TJ Abbenhaus
		<input type="radio"/> Introduction to Drone Technology for GIS and Enterprise Program Development for Public Agencies (Half Day) Peter Keum • Greg Lang
		<input type="radio"/> Working Smarter with Geocortex and Web AppBuilder for ArcGIS (HALF DAY) Ryan Cooney
	1:30pm	<input type="radio"/> Introduction to GIS for Equity & Social Justice (Half Day) Greg Babinski • Nicole Franklin
		<input type="radio"/> Portal/ArcGIS Online Governance and Best Practice (Half Day) John Sharrard
		<input type="radio"/> Using SQL to query and manage your GIS data (Half Day) Don Burdick

A	Administration
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W	Workshop
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MAY 20 • MONDAY

7:30am – 9:00am

A Registration
 Welcome

Hotel Murano Ballroom Foyer (Tacoma Convention Center, 1500 Commerce St, Tacoma, WA 98402)

8:30am – 12:00pm

W Addressing: A Practical Guide (Half Day)
Speakers: Jeff Ledbetter

Hotel Murano, Venice 3 (1320 Broadway, Tacoma, WA 98402, USA)

Addressing, and more specifically, documenting and managing addresses in a GIS environment, is more an art than science. This workshop will inform participants of the many considerations that need to be undertaken when establishing and maintaining GIS-based address databases and applications.

The follow items will be covered:

- History of Addressing
- The anatomy of an address
- Managing addressing in GIS
- Public safety implications of addressing
- Other governmental enterprise implications of addressing
- Aggregating multiple address databases into a master address database

Intended Audience:

GIS professionals that support address management and/or public safety

Presenter Bios:

Jeff Ledbetter is a GIS, public safety, addressing and GIS technology subject matter expert with nearly two decades in GIS. His unique skill as a "translator" helps both technical and non-technical people understand public safety, addressing and GIS concepts and the technology that supports them. Since 2009 Mr. Ledbetter has been supporting GIS technology in PSAPs and Emergency Operations Centers. Mr. Ledbetter is a Public Safety GIS Expert with Michael Baker International based out of San Diego, CA and holds GIS Professional (GISP), Emergency Number Professional (ENP) and Project Management Professional (PMP) certifications.

W Esri Application Configuration: Creating Apps with Minimal to No Custom Coding (Half Day)

Speakers: Scott Moore

Hotel Murano, Venice 4 (1320 Broadway, Tacoma, WA 98402, USA)

This session will describe how to configure and customize web applications. The session will emphasize configuration best practices and will also describe how you can customize configurable web apps to meet your organization's needs. We'll explore how to configure the apps to specify an organization color scheme, add a logo, configure capabilities and more. Tips and tricks to get the most out of Esri's configurable apps and Web AppBuilder will be covered.

*Bring your own laptop or device and access to an ArcGIS Online portal to follow along.

Intended Audience:

Beginning to Advance GIS users and managers will benefit from this workshop.

Basic familiarity with ArcGIS Online is recommended.

Learning Objectives:

Students will learn how to effectively deploy Esri's configurable apps to meet end-user needs. Students will also learn to use Web AppBuilder's configuration and customization functionality.

Instructor Bio:

Scott Moore is a Solution Engineer with Esri in Olympia, WA working on the State Government team. He focuses on assisting Esri software users with architecture design, application development and technical advice for deploying ArcGIS. Mr. Moore's areas of expertise include web mapping, server based GIS, developer technologies, and making spatial technology available to everyone. He has been with Esri since 2006. He earned a bachelor's degree in Geography with a focus on GIS from the University of Washington in Seattle in 1998. Prior to joining Esri, he was a Senior GIS Analyst and GIS Manager for the City of Chandler, Arizona where he built the City's Enterprise GIS.

Important Information:: Laptop Required

Speakers: Tripp Corbin

This course is designed to make existing ArcMap and ArcCatalog users proficient in the basic skills required to be productive ArcGIS Pro users. You will learn the new terminology associated with ArcGIS Pro, how to navigate the interface and more.

Topics covered

- Introducing ArcGIS Pro
- Navigating the User Interface
- Creating 2D & 3D Maps
- Creating and managing Projects
- Creating Map Layouts

Intended Audience

This course is intended for existing ArcMap and ArcCatalog users which need to learn how to translate those skills and workflows to ArcGIS Pro.

Prerequisites and requirements

Students taking this course must have prior experience using ArcMap and/or ArcCatalog. No previous experience using ArcGIS Pro is needed.

Students will need to provide their own computer capable of running ArcGIS Pro and be assigned an ArcGIS Pro Basic or higher license from their organization prior to class which can be accessed from the web. This should be verified prior to the start of class. You can find the current system requirements at <http://pro.arcgis.com/en/pro-app/get-started/arcgis-pro-system-requirements.htm>. If your organization cannot assign you a license before the workshop, you can use a free trial license which you can request from <https://www.esri.com/en-us/arcgis/products/arcgis-pro/trial>. You will need to use an email address that is not associated with your employer.

Course Materials:

- Learning ArcGIS Pro eBook by Tripp Corbin, GISP
- PDF copies of lecture slides
- Certificate of Completion

Presenter Bios:

Tripp Corbin is the Chief Executive Officer and Lead Instructor for eGIS Associates. He is an award winning Certified Trainer with over twenty years of experience orchestrating and managing geospatial projects. He is recognized as an industry expert with a variety of geospatial software packages including Esri, Autodesk and Trimble products. Tripp has authored the two books on ArcGIS Pro, Learning ArcGIS Pro and ArcGIS Pro 2.x Cookbook. He is a past President of URISA International and serves on the editorial board for the CDCs Journal on Preventing Chronic Disease. He holds many certifications including GIS Certified Professional, Esri ArcGIS Desktop Associate and Professional, ArcGIS Enterprise System Design Associate, CompTIA Certified Technical Trainer, Microsoft Certified Professional, and URISA Workshop Instructor.

Important Information:: Laptop Required

Speakers: Ann Stark

Feeling a little stuck with your Python skills? Do you dabble in Python but wonder how to get to the next level of skill? Do you get stuck in the debugging process of a script? Are you a GIS specialist or analyst with a to-do list longer than feasibly possible to accomplish? Do you wonder if there's a way to automate the boring stuff so you can do the fun stuff? If you answered "yes!" to any of these questions, this class is designed to help you!

Extend your reach as a python programmer by learning tips and tricks to take your programming to the next level in this full day workshop. We will cover a wide range of topics in lecture format - no getting bogged down with step by step exercises. Topics will be demonstrated, discussion will examine when and why you want to use these new skills, and you'll walk away with handouts that outline what we did and why in enough detail for you to try it back at your desk when you are ready to use new skills in your everyday work. Bring your laptop along if you like, or sit and absorb without the distraction of it. These ideas should get you inspired to try new things, fix old problems, and code faster – like a pro!

Practical Python is a python class unlike any other you may have taken. It's filled with practical tips, tricks and examples used by a Senior GIS Analyst with 20 years of experience in the GIS field. These are not recipes or cookbooks. These are tools you'll use over and over again in all your GIS scripts, every day. You'll come away with

ideas for automation, knowledge about better debugging methods, a better understanding of tools and resources available for help, steps for building robust scripts that fail gracefully and notify you when they do. You'll have a bigger picture understanding about how to use automation and python to grow your GIS by working smarter, not harder.

Take this class to learn practical python skills that can be used across a broad range of tasks. Learn about better logging, emailing yourself results and notifications, using JSON files to automate inputs to your scripts, automating tasks overnight so you walk into a fresh GIS system in the morning with a morning report waiting for you in your inbox.

Learning Objectives:

- Explore and understand better and more robust coding tools (IDEs) and the benefits they provide
- Explore better and more robust error checking and notifications
- Understand how to set up a script to run automatically and notify you of any issues
- Understand how to set up a central script library and logging location
- Understand how to email yourself and others when a script fails or succeeds.
- Understand how to use JSON files for controlling your scripts and allowing others to modify your scripts without actually touching (and breaking) them.
- Explore scenarios for automating common GIS tasks.
- Understand common python tools that help you work better such as
 - os.path,
 - yield and glob
 - sets for comparing large quantities very quickly

Your Instructor:

Ann Stark is a python programmer that vividly remembers what it was like to learn to program without the benefit of a computer sciences degree. Because of this she provides a unique perspective not found in other classes – she doesn't assume you have a computer science degree either. Ann's sense of humor and easy-going style will make learning enjoyable.

Intended Audience: Intermediate Python Programmers

This class is about working smarter not harder. You've already learned some basic python. You understand the point of ArcPy in a script – but how do you take the next step to becoming a skilled GIS analyst with powerful python tools you can use to make your job easier – even more fun? *This is most definitely **not** a beginner class*. There will be very many things we assume you understand about scripting with python already. Make sure you understand the prerequisites and call if you have any questions.

Prerequisites

- Sense of humor
 - Experienced in successfully writing simple python scripts. For example, able to write a script that uses a feature class to clip another and save the output to a new location.
 - Understand these basic python concepts (we won't be going over them):
 - Indentation and the importance of it in python scripts
 - Try/except statements
 - Looping
 - Lists
 - If/else statements
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W Getting Started with ArcGIS Enterprise 10.6.1 and ArcGIS Enterprise Sites – A Best Practices Approach (Half Day)

Hotel Murano, Venice 3 (1320 Broadway, Tacoma, WA 98402, USA)

Speakers: Scott Moore

ArcGIS Enterprise is a key component of the ArcGIS platform. It provides you with a complete GIS that runs behind your firewall, in your infrastructure, on-premises, and in the cloud and works with your enterprise systems and policies. In this lecture-format workshop, we will discuss how to successfully deploy ArcGIS Enterprise in your organization. We will also discuss new capabilities which have recently been released as part of ArcGIS Enterprise, like ArcGIS Enterprise Sites. Using ArcGIS Enterprise Sites, you can create a tailored experience that supports easy discovery of maps, apps, and other content shared to an ArcGIS Enterprise portal. Come get an overview of Sites options, learn design tips and tricks, and see the steps to build intuitive web pages that reflect your organization's branding and support users of all experience levels.

Intended Audience:

Beginning to Advance GIS users and managers will benefit from this workshop. It is expected that advanced technical discussions will take place. A high-level understanding of ArcGIS Enterprise components is recommended to get the most out of the workshop.

Learning Objectives:

Students will learn why ArcGIS Enterprise is an essential component to a sustainable GIS strategy. Students will learn how to leverage ArcGIS Enterprise Sites to maximize portal accessibility for various groups of portal users.

Instructor Bio:

Scott Moore is a Solution Engineer with Esri in Olympia, WA working on the State Government team. He focuses on assisting Esri software users with architecture design, application development and technical advice for deploying ArcGIS. Mr. Moore's areas of expertise include web mapping, server based GIS, developer technologies, and making spatial technology available to everyone. He has been with Esri since 2006. He earned a bachelor's degree in Geography with a focus on GIS from the University of Washington in Seattle in 1998. Prior to joining Esri, he was a Senior GIS Analyst and GIS Manager for the City of Chandler, Arizona where he built the City's Enterprise GIS.

MAY 21 • TUESDAY

7:30am – 9:00am **A Registration** Hotel Murano Ballroom Foyer (Tacoma Convention Center, 1500 Commerce St, Tacoma, WA 98402)
Welcome

8:30am – 12:00pm **W Disaster Response and Preparedness (Half Day)** Hotel Murano, Venice 3 (1320 Broadway, Tacoma, WA 98402, USA)
Speakers: TJ Abbenhaus

This half day workshop will focus on Esri solutions to prepare for and respond to disasters. We will discuss how to use ArcGIS online in preparation for supporting a large and coordinated response to a natural disaster. ArcGIS online provides a platform that is scalable and agile for rapid response, however some early forethought and preparations are required to be prepared for these types of events. We will use this time to show various approaches and lessons learned from the devastating fires in California in 2017 and 2018.

Intended Audience: Beginning to Advance GIS users and managers. Basic familiarity with ArcGIS Online is recommended, but not essential.

Learning Objectives: Learn ArcGIS Online techniques to prepare for and respond to disasters, with tips for inter-agency coordination.

Workshop Format: Lecture format.

Instructor Bio:

TJ Abbenhaus is a Solution Engineer on the sales team for the Esri Olympia regional office. TJ has specialized in Imagery and LiDAR solutions. Currently working for the State and Local government sales team and has extensive experience with workflow and outcomes desired for State and local GIS.

8:30am – 12:00pm **W Introduction to Drone Technology for GIS and Enterprise Program Development for Public Agencies (Half Day)** Hotel Murano, Venice 4 (1320 Broadway, Tacoma, WA 98402, USA)

Speakers: Peter Keum, Greg Lang

With advances in drone technology and its growing use worldwide, drones are becoming increasingly beneficial in a wide range of applications. The workshop is divided into two parts. The first part describes drone technology and its various uses in GIS. The second part covers how to create a drone program within an organization: including managing a large number of flights; employing software; training pilots; and implementing risk mitigation procedures. This workshop is about giving you the tools to make your program a success.

Learning Objectives:

Use drone technology in the context of GIS including:

- Various drone hardware
- Data processing software
- Workflow for drone related projects

Intended Audience:

- GIS specialists who want to learn about drone technology and its benefits.
- GIS specialists who are interested in developing a drone program within their organization.

Presenters Bio:

Peter Keum, GISP - Senior GIS Specialist with King County Wastewater Treatment Division. Drone enthusiast, flying since 2014. FAA Certified Drone Pilot. Developed the Wastewater Treatment Division drone policy/guideline for King County and coordinates drone vendor with various WTD operations. Open source enthusiast, active member of local CUGOS (Cascadia Users of Geospatial Open Source), Co-Organizer of Puget Sound QGIS User Group and participant of Seattle Maptime and OpenStreetMap (OSM) Seattle.

Greg Lang, GISP - GIS/IT Lead Systems Engineer with Pierce County. Greg has over 18 years of local government GIS and Asset Management enterprise level implementation, training, and coordination experience, plus over a decade of non-profit leadership experience including extensive flight operations training and mission experience in a rescue role. His current role includes IT technical leadership and coordination of GIS, GNSS, Drone, and Asset Management services for Pierce County Washington and is an FAA Certified Drone Pilot.

W Working Smarter with Geocortex and Web AppBuilder for ArcGIS (HALF DAY)

Speakers: Ryan Cooney

Hotel Murano, Venice 2 (1320 Broadway, Tacoma, WA 98402, USA)

Working Smarter with Geocortex and Web AppBuilder for ArcGIS

Web AppBuilder for ArcGIS is a framework for quickly delivering purpose-based web GIS applications. But for those who want to take their applications further and go beyond the out-of-the-box capabilities, the typical path has been custom widget development. We'll show you how Geocortex Workflow 5 technology is transforming Web AppBuilder development. Our intuitive web-based design tools let you build virtually anything without writing custom code. Learn how our powerful framework is providing organizations the flexibility of custom development, while helping them avoid the costly drawbacks.

Intended audience:

- Intermediate
- Geocortex Administrators
- Web AppBuilder for ArcGIS Administrators
- Web AppBuilder for ArcGIS Developers
- GIS Professionals (Coordinators, Specialists, Manager, etc.)

Learning objectives:

- What is Geocortex Workflow 5
- How to deploy workflows in Web AppBuilder for ArcGIS
- How to create a workflow
- How to create forms in workflows
- What is Geocortex Reporting
- How to build a report
- How connect a report to a workflow

Requirements:

- Laptop that can connect to the Wifi internet and a notebook

Instructor Bio:

Ryan Cooney oversees all development as the Product Owner for Geocortex Workflow, Reporting, and Printing 5. Ryan's background is in geography, C#, and JavaScript development. He has been working with the ArcGIS platform and Geocortex web mapping software for more than 10 years in various capacities. Ryan brings a wealth of knowledge to the Geocortex Essentials 5-series products and is committed to helping Geocortex customers accomplish even more with their investment in the ArcGIS platform.

8:30am – 5:00pm

W Editing Data in ArcGIS Pro (Full Day)

Hotel Murano, Venice 1 (1320 Broadway, Tacoma, WA 98402, USA)

Speakers: Tripp Corbin

This course takes you through the basic editing workflow used in ArcGIS Pro 2.x. Students review the Edit tab plus the Modify Features and Create Features pane. Feature templates are introduced and explained to provide a thorough understanding of how they work in the ArcGIS Pro editing methodology. The snapping environment is also explained. The skills and knowledge you gain in this course applies regardless of the licensing level you use (Basic, Standard or Advanced).

Course Lessons:

This course includes the following lessons:

Lesson 1: Introduction to ArcGIS for Desktop Editing Workflow

Lesson 2: Creating New Features

Lesson 3: Editing Existing Features

Lesson 4: Editing Attribute Tables

Lesson 5: Editing using Topologies

Lesson 6: Editing Annotation

Target Audience:

This course is for those wishing to learn more about editing GIS data using ArcGIS Pro. Some ArcGIS Pro experience is assumed.

Prerequisites and recommendations:

Students taking this course should have completed the Migrating to ArcGIS Pro or Learning ArcGIS Pro 1: Maps and Projects courses or have similar real world experience. In addition, they should have a general understanding of computers and how to work in a Microsoft Windows environment.

Students will need to provide their own computer capable of running ArcGIS Pro and be assigned an ArcGIS Pro Basic or higher license from their organization prior to class which can be accessed from the web. This should be verified prior to the start of class. You can find the current system requirements at <http://pro.arcgis.com/en/pro-app/get-started/arcgis-pro-system-requirements.htm>. If your organization cannot assign you a license before the workshop, you can use a free trial license which you can request from <https://www.esri.com/en-us/arcgis/products/arcgis-pro/trial>. You will need to use an email address that is not associated with your employer.

Presenter Bios:

Tripp Corbin is the Chief Executive Officer and Lead Instructor for eGIS Associates. He is an award winning Certified Trainer with over twenty years of experience orchestrating and managing geospatial projects. He is recognized as an industry expert with a variety of geospatial software packages including Esri, Autodesk and Trimble products. Tripp has authored the two books on ArcGIS Pro, Learning ArcGIS Pro and ArcGIS Pro 2.x Cookbook. He is a past President of URISA International and serves on the editorial board for the CDCs Journal on Preventing Chronic Disease. He holds many certifications including GIS Certified Professional, Esri ArcGIS Desktop Associate and Professional, ArcGIS Enterprise System Design Associate, CompTIA Certified Technical Trainer, Microsoft Certified Professional, and URISA Workshop Instructor.

Important Information:: Laptop Required

9:00am – 5:00pm

W Washington Government GIS Leaders meeting (Full Day)

Hotel Murano, Cavallino (1320 Broadway, Tacoma, WA 98402, USA)

Speakers: Stephen Beimborn, Joshua Greenberg

Washington Government GIS Leaders (WGGL) meeting

W Introduction to GIS for Equity & Social Justice (Half Day)*Speakers: Greg Babinski, Nicole Franklin*

Hotel Murano, Venice 4 (1320 Broadway, Tacoma, WA 98402, USA)

This workshop will serve as an introduction to recent trends and practices related to using GIS for Equity and Social Justice (ESJ). GIS professionals are bound by the GIS Code of Ethics to consider the impact of their work on society. For hundreds of years mapping has sometimes been a tool for creating and preserving inequity. During the past 25 years there have been some uses of GIS for issues related to equity or social justice. We will explore critical race theory (CRT) and trends in critical race spatial analysis. We will review recent literature and academic programs around the topic of GIS for ESJ. Most importantly we will outline best practices for GIS professionals in doing GIS for ESJ work. This includes creating a data/mapping/application support framework both for their own work and to support the work on non-GIS professionals. Non-GIS professionals will become the largest community doing actual ESJ work with GIS. These non-GIS professionals include those who work for agencies, non-profits, and NGO's with an ESJ mission, as well as government policy professionals who want to use GIS to support an ESJ lens for developing upstream agency policies.

Intended Audience:

GIS professional plus Equity & Social Justice and public policy practitioners

Learning Objectives:

1. Why GIS for Equity and Social Justice
2. GIS code of ethics and moral imperative
3. Principles of equity and social justice
4. The role of GIS professionals
5. The role of ESJ practitioners
6. The role of public policy
7. Critical race theory
8. Critical race spatial analysis
9. How upstream policies impact downstream outcomes
10. Understanding how maps and GIS can be used to create long-term inequity
11. How GIS and maps can expose oppression and inequity
12. How GIS can be used to manage and monitor pro-equity policies
13. Examples of public agencies with ESJ policy priorities
14. Educational resources for GIS professionals
15. The URISA GIS for ESJ workgroup

Presenter Bio(s):

Nicole Franklin develops workable, pragmatic solutions to technology access problems faced by underserved communities. She serves as the chief equity officer for the Department of Information Technology, where she leads efforts to ensure social justice and equity in her workplace and community. She previously managed the department's data center for two years and served as administrator of the organization's enterprise business continuity program. She's currently piloting a version of performance management with ESRI with the goal of determining whether current equity actions are changing desired outcomes. She holds a master's degree in demography from the University of Pennsylvania and bachelor degrees in computational and applied mathematics; sociology; and statistics from the University of Washington.

Greg Babinski is Marketing Manager for the King County GIS Center in Seattle, where he has worked since 1998. Previously he worked for nine years as GIS Mapping Supervisor for the East Bay Municipal Utility District in Oakland. He holds an MA in geography from Wayne State University. Greg is a GISP – Certified GIS Professional. Babinski is Past-President of URISA and founder and Past-Chair of URISA's GIS Management Institute. In 2005 he founded The Summit – the Washington State GIS Newsletter. In addition to GIS consulting, he is a GIS researcher, author, and instructor. He has spoken about GIS management across North America, Europe, Asia and Australia. Greg also teaches GIS for Public Policy as an instructor with the University of Washington Evans Graduate School of Public Administration. In his spare time Greg likes hiking steep, narrow and dangerous trails that lead high above the clouds to awesome views.

W Portal/ArcGIS Online Governance and Best Practice (Half Day)

Speakers: John Sharrard

Hotel Murano, Venice 3 (1320 Broadway, Tacoma, WA 98402, USA)

Your ArcGIS Online and/or Portal for ArcGIS design is an integral part of your GIS ecosystem, enabling you to reach a broad audience that includes GIS professionals, decision makers, knowledge workers, your mobile workforce, and the public. Using real world examples presented in a step-wise fashion, this fast-paced workshop offers guidance, tips, and details best practices that will enable you to create a successful and vibrant organization that meets your needs and goals. Whether you've already lifted your organization, or are just beginning to think about it, you'll get ideas on how to configure it for the best experience and results, and how to develop governance to support and engage users of all types successfully.

Intended Audience:

Beginning to Advance GIS users and managers will benefit from this workshop. It is expected that advanced technical discussions will take place. A high-level understanding of ArcGIS Enterprise components is recommended to get the most out of the workshop.

Learning Objectives:

Students will learn Esri's "Best Practices" approach to the design and governance of your organizations GIS portal technology (ArcGIS Online for Organizations and/or Portal for ArcGIS).

Instructor Bio:

John Sharrard is a Solution Engineer with Esri on the Local Government team working in the Pacific Northwest. John has been working in the GIS field for 31 years. The first seven years were with the State of Oregon and the last 24 years have been with Esri. He is a graduate from the GeoScience program at Oregon State University. John focuses on assisting Esri software users with Web GIS, 3D GIS, GeoDesign, Land Records, Transportation and technical advice for deploying ArcGIS.

1:30pm – 5:00pm

W Using SQL to query and manage your GIS data (Half Day)

Speakers: Don Burdick

Hotel Murano, Venice 2 (1320 Broadway, Tacoma, WA 98402, USA)

Join me as we explore new ways of using and managing your GIS data . This lecture-based workshop will examine how we can use SQL queries to explore and manage relational database management system (RDBMS) data.

We will explore the GIS data, using SQL statements that take advantage of wealth of GIS attributes and also the spatial relationships in your data. We will look at how to write SQL query statements using ST_Geometry to apply spatial analysis tools such as buffer, intersect and union.

We will expand your understanding of the geodatabase, what makes it unique and how we can use information stored in the system tables. We will dig into the relationship between system tables and feature classes and how to tie the two together to leverage all the information. We will also understand discovery functions and understand the situations where we can edit the GIS data through SQL.

Topics Covered

- What is RDBMS support for ArcGIS
- Database tools that help you explore your GIS data
- Understand the different ways your ArcGIS applications access the RDBMS
- Understanding the Geodatabase in an RDBMS
- SQL statements that leverage spatial functions
- Handy SQL statements for managing query output
- Business cases for using SQL to query and manage the data.
- Understanding discover functions
- Editing geodatabase feature classes in versioned and non-versioned environments using SQL

Instructor

Don Burdick has been managing and developing GIS solutions for a wide variety of local government departments. As part of that experience, Don has utilized SQL as another tool in the tool chest to provide innovative and effective solutions. He will bring insight from his proven track record of integrating workflow and business systems with GIS in local government. Don will not just teach the technical aspects of SQL but also provide examples and discussion around how to apply SQL to business solutions.

Intended Audience

GIS Analysts, programmers or spatial data managers with an intermediate knowledge of the geodatabase, SQL and relational databases.

Prerequisites

- Familiarity with RDBMS concepts
- Knowledge and understanding of the geodatabase model
- Basic understanding of SQL statements/syntax

5:15pm – 7:30pm

S **Welcome Social**
Social

Mystery Location (123 TBD, Everywhere, XX 0000)
