

2016 Washington GIS Conference

GIS Evolved: Transforming Our World

May 23 -25, 2016
Greater Tacoma
Convention & Trade Center



WA
IRISA

| Monday | Tuesday | Wednesday | |
|--|---|--|--------------------------------------|
| 8:00-4:00 Registration | 8:00-4:00 Registration | 8:00-1:30 Registration | |
| 8:30-12:00 Morning Workshops | 8:30-10:00 Opening Plenary Keynote: Josh Howell | 8:30-10:00 Technical Presentations | ESRI Hands-on Learning Lab 8:30-3:00 |
| | 10:00-10:30 Break | 10:00-10:30 Break | |
| | 10:30-12:00 Technical Presentations | 10:30-12:00 Technical Presentations | |
| 12:00-1:30 Lunch | 12:00-1:00 Lunch -Vendor Presentations?? | 12:00-1:15 Lunch WAURISA Board Meeting | |
| 1:30-5:00 Afternoon Workshops Washington Local Government GIS Leaders' Summit | 1:00-2:30 Technical Presentations | 1:15-2:30 Technical Presentations | |
| | 3:00-4:30 Break | 3:00-4:30—timing Closing Plenary | |
| | 3:00-4:30 Technical Presentations | | |
| | 4:30-6:00 Vendor Social | | |
| 6:00-8:30 Social @ The Social Bar and Grill | 6:30-8:00 Social @ Steel Creek American Whiskey Co. | | |

ESRI Hands-On Learning Lab 10:30-4:40

Table of Contents

| | |
|---------------------------------|-------|
| President Message | 4 |
| Opening Plenary | 4 |
| Keynote | 5 |
| Summit Award | 6 |
| Closing Plenary | 6 |
| WAURISA Board | 7 |
| Special Events | 8-9 |
| Social Events | 10-11 |
| Monday Workshops | 12-13 |
| Tuesday–Wednesday Presentations | 14-26 |
| Acknowledgements | 27 |
| Notes | 28-29 |
| Facility Map | 30 |
| Locations Map | 31 |

President's Message

Josh... Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum

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Opening Plenary

Welcome – Josh Greenberg

Conference Announcements - Sarah Myers

Keynote – Josh Howell

Presentation of Appreciation – Josh Greenberg & Sarah Myers

Keynote

Opening Keynote by: Josh Howell Digital Business Lead & Field CTO

Josh Howell consults with organizations on strategy around digital transformation and technology needs. Mobile applications, digital marketing, IoT devices, and big data analytics are reshaping every industry, and promise to be more impactful than the internet has been to date. Josh works to distill high-level digital business best practices and strategies down to actionable, low-cost, and effective ways to get started, and deliver rapid results. The EMC Federation of companies have consulted with, and performed work for companies ranging from the Fortune 100 to startups like Uber and Twitter.

Leveraging his 15 year background in IT across several industries, an MBA focused on Innovation Management, and lessons derived from thousands of customer meetings, Josh works with commercial, education, healthcare, and local government organizations across Alaska, Washington, Oregon, Idaho, Montana, and California who are interested in how to be the disruptor of their industries rather than the disrupted.



Summit Award

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Closing Plenary

Ballroom

Stick around to meet your new board members, have a chance to win a prize from the passport and hear who won the poster contest. We will also be congratulating our Summit Award winner and give them a chance to speak.

WAURISA Board

President: **Joshua Greenberg**

Vice President: **Ian Von Essen**

Secretary: **Sarah Myers**

Treasurer: **Don Burdick**

Past President: **Heather Glock**

Member At-Large: **Cort Daniel**

Member At-Large: **Renee Opatz**

Member At-Large: **Joy Paulus**

Member At-Large: **Bill Roberts**

Member At-Large: **Dana Trethewey**

Member At-Large: **Anna Yost**

Board meetings are held the **second Tuesday of every month** at Noon via conference call.

Updates are presented by each committee. It is an excellent way to find out what is happening, what will be happening and how to get involved.

Everyone is welcome to attend!

1-800-944-8766

Passcode #: 20311

Special Events

Washington Local Government GIS Leaders' Summit **Monday 1:30-5:00pm**

All too often city and county GIS managers have to make decisions isolated from their peers. The purpose of this free half day work session is to break down those silos and explore ways to better support our local GIS managers and leaders in their work goals. This session is intended for GIS department heads and managers who work at County and City offices. We will start with some presentations that introduce current resources available to GIS managers. These include presentations from our State GIS Coordinator, the Chair of the WA Geographic Information Council (WAGIC), the Past Executive Board Member of the Association of County & City Information Systems (ACCIS), and the creator of the URISA GIS Capability Maturity Model. The rest of the afternoon will be a working session to discuss goals and objectives, and to brainstorm to identify how we can leverage our GIS network across the state. The participation of our City and County GIS leaders is crucial to building this community cooperation and involvement.

Special Events

WAURISA Leadership Meeting

Wednesday 12:15-1:15pm

Join us for the Leadership Meeting during lunch on Wednesday – everyone is welcome and encouraged to attend! The WAURISA board will share a brief overview of what WAURISA is about and highlight some of our success during the past year. We'll then open the floor up for discussion and feedback from you – our WAURISA members. We're very interested in hearing your ideas for improving WAURISA's relevance for you and your professional development.

ESRI Hands-On Learning Lab

Everyday 8:30-3:00pm

The HOLL (Hands-On Learning Lab) is a training resource provided and developed by ESRI Training Services. The lab is an excellent way to introduce ArcGIS® software users to a variety of ESRI® solutions and training opportunities while learning to use ESRI software.

The HOLL consists of a group of laptops with headphones where students can work through lessons at their own pace. A lesson consists of a recorded presentation followed by a hands-on exercise. Each lesson typically takes from about 45 minutes to one hour to complete, and students can generally come and go as they please. Training Services instructors are on hand to answer any questions.

Social Events

Monday Night Welcoming Social

Monday 6:00-8:00pm

Location: The Social Bar & Grill
1715 Dock Street, Tacoma, WA

Whether you are finishing a day of our workshops or just arriving for the conference, come join us for some appetizers and a time to re-acquaint with your GIS colleagues.



Vendor Social

Tuesday 4:30-6:00pm

Location: Conference Facility

Come hang out with the Conference's exhibitors at the Vendor Social. Visit with your colleagues. Check out the posters and vote for your favorite in all the categories.

Tuesday Night Social

Tuesday 6:00-8:00pm

Location: Steel Creek
1114 Broadway, Tacoma, WA

After the Vendor social the night doesn't have to end. Come join us for a great night of appetizers, bull riding, line dancing, prizes and unwind.



Social Events

Women in GIS Breakfast

Wednesday 7:00-8:00am

**Location: Bite at Hotel Murano
320 Broadway, Tacoma, WA**

Join fellow women in GIS for a delicious breakfast. Besides great food, this is an informal chance to network and make friends with other women in our field. No RSVP necessary.



Fun Run

Wednesday 6:00-7:70am

Location: Meet outside conference facility

Feeling energetic? Our annual 5K Fun Run/Walk is the perfect early morning networking event! Meet your fellow running enthusiasts at 6:00 AM in the hotel lobby for a leisurely 5K jog along the water and Downtown Tacoma. Then head to Breakfast to replace all of those calories you burned! All paces and abilities are welcome to run with us! For a map of the run route scan the QR code here:



MONDAY

8:30 - 12:00 Morning Workshops

12:00 - 1:30 Lunch on Your Own

1:30 - 5:00 Afternoon Workshops

6:00 - 8:30 Social @ the Social

TUESDAY

8:30-10:00 Opening Session

10:30-12:00 Morning Sessions

12:00-1:00 Buffet Lunch (Included)

1:00-2:30 Early Afternoon Sessions

3:00-4:30 Late Afternoon Sessions

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3:00-4:30 Closing Session

Create Great Web Apps - No Coding Required

Speakers: ESRI

Room 315

GIS Program Management (Part 1 of 2)

Speakers: Cy Smith

Room 318

Key Surveying and Geodesy Elements Geospatial Professionals Should Understand

Speakers: Gavin Schrock

Room 317

Move Beyond Static Maps: Introduction to ArcGIS Online

Speakers: Mary Ullrich

Room 316



King County

GIS CENTER

ArcGIS Open Data: Get Started & Use Best Practices

Speakers: ESRI
Room 315

GIS Program Management (Part 2 of 2)

Speakers: Cy Smith
Room 318

Using ArcGIS Online and ESRI Collector to Capture GIS Data

Speakers: Jim Lahm
Room 316

Washington Local Government GIS Leaders' Summit

Speakers: Joshua Greenberg
Room 317

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URBAN STUDIES

MS GEOSPATIAL TECHNOLOGIES

UNDERGRADUATE
GIS CERTIFICATE

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TACOMA

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GIS in Land Protection Assessment and Mapping - A Comparison of Tools and Spatial Analysis in ArcGIS and QGIS

Speakers: Karsten Vennemann
10:30am - 11:00am
Room 315

GIS-Centric Asset Management at the King County Road Services Division

Speakers: Denise Ainslie
10:30am - 11:00am
Room 316

GISPD.com: GIS Professional Development Perspectives and Progress

Speakers: Jeff Berry, Jason Eklund, David Howes, Ph.D., Aaron Paul
10:30am - 12:00pm
Room 317

ESRI: ArcGIS Pro

Speakers: Jeff Barrette
10:30am - 12:00pm
Room 318

Building An Asset Management Foundation with GIS (City of Tacoma)

Speakers: Steve Schunzel, GISP
11:00-11:30am
Room 316

Finding Land to Designate As Agricultural Resource Land, Easy With GIS, Correct?

Speakers: Aaron Petersen

11:00am - 11:30pm

Room 315

An Online Tool for Evaluating Land Use Suitability for Maize

Speakers: Karsten Vennemann

11:30-12:00pm

Room 315

Inspection Based GIS City of Burien

Speakers: Fernando Llamas Jr

11:30-12:00pm

Room 316

Poster Contest Go Vote!

Please take some time to view the maps and cast your vote for the best maps using the ballot included with your conference program. **Return your ballots by noon on Wednesday, May 25**, to the ballot box located at the registration desk.

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Teaching GIS - A Sustainability Management Perspective

Speakers: Christy Heaton
1:00-1:15pm
Room 317

Exploring Recreation in Washington State

Speakers: Jennifer Hackett
1:00-1:30pm
Room 315

Revolutionizing Hydrant Inspections with a Beautiful Mobile Solution

Speakers: Greg Heintz
1:00-1:30pm
Room 316

ESRI: Connecting GIS to Your Office Using ESRI Maps for Office

Speakers: Shane Clarke
1:00-2:00pm
Room 318

Lessons Learned Teaching GIS in a Developing Country

Speakers: Robert Catherman
1:15-1:30pm
Room 317

ArcGIS Online for Communication and Production: Learning Things the Hard Way

Speakers: Molly Jackson

1:30-1:45pm

Room 317

Improving Utility Decision Making

Speakers: Andy Simpson

1:30-2:00pm

Room 316

Mapping Historic Ballard with Crowd Sourced Mobile Data Collection

Speakers: Matt Stevenson

1:30-2:00pm

Room 315

Streamlining the Cartographic Workflow with QGIS

Speakers: Evan Derickson

1:45-2:00pm

Room 317

The Awesome POSM - A portable street map of the world

Speakers: Jubal Harpster

2:00-2:15pm

Room 317

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GeoLine Positioning Systems
logo Placeholder

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Husky Lines: Incorporating Qualitative Survey Data into the Spatial Environment

Speakers: Alexa Brockamp

2:00-2:30pm

Room 315

Using GIS to Estimate Pipe Line System Damage

Speakers: Bill Heubach

2:00-2:30pm

Room 316

Drone2Map/Full Motion Video—An Introduction

Speakers: Scott Moore

2:00-2:30pm

Room 318

What's Happening Now at the Tacoma Widget Factory?

Speakers: Mike Murnane

2:15-2:30pm

Room 317



esri®

**Creation of a Public Safety GIS to Fit
Computer Aided Dispatch**

Speakers: Shawna Ernst
3:00-3:30pm
Room 316

**Learning Geodesign Through a Series of
Survivable GIS Labs**

Speakers: Philip Murphy Ph.D.
3:00-3:45pm
Room 315

**Integrating Microsoft Office 365 and
ArcGIS: Developing Skills for the Modern
GIS Age**

Speakers: David Howes Ph.D.
3:00-4:30pm
Room 317

King County

Speakers: Greg Babinski
3:00-4:30pm
Room 318

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Tacoma All-Hazards Risk Assessment

Speakers: Andy Norton, Donna Wendt
3:30-4:00pm
Room 316

A Spatial Region Growing Approach for Forest Fire Fuel Management

Speakers: Vaishnavi Thakar
3:45-4:15pm
Room 315

Landslide Mapping in Pierce County

Speakers: Stephen Slaughter
4:00-4:30pm
Room 316

Vender Social 4:30-6:00pm

Come hang out with the Conference's exhibitors at the Vendor Social. Visit with your colleagues. Check out the posters and vote for your favorite in all the categories.

Using High Resolution LiDAR to Update Hydro

Speakers: Joey Bisig

8:30-9:00am

Room 317

Tacoma Environmental Services Collector Apps

Speakers: Vanessa Simpson

8:30-9:15am

Room 316

The Evolution of ArcGIS Online at the City of Seattle

Speakers: Suzy Brunzell, John Edwards

8:30-9:15am

Room 315

Geocortex

Speakers: James Van Dyk

8:30-10:00am

Room 318

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Latitude Geographics™

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Use of PhoDar to Monitor Riparian Change in Agriculture Zones

Speakers: Joshua Greenberg

9:00-9:30am

Room 317

Tacoma Water - Collections in the Watershed

Speakers: Lisa Sievers

9:15-9:45am

Room 316

Updating the City of Seattle's GIS Applications using Web App Builder

Speakers: Harvey Arnone, Toby Semroc

9:15-10:00am

Room 317

Lidar Development at the Division of Geology and Earth Resources

Speakers: Abigail Gleason

9:30-10:00am

Room 317



PICTOMETRY[®]
AN EAGLEVIEW COMPANY

**Using GIS to Enhance the Collaboration,
Creation and Management of Assigning
Addresses and New Roads in Island County**

Speakers: Becca Blackman

10:30-11:00am

Room 315

**Creating a State Standard Pertaining to
Critical Infrastructure**

Speakers: Ray Brooks

10:30-11:00am

Room 316

ESRI: #webgismatters

Speakers: Heather Glock

10:30-11:15am

Room 318

UW Tacoma - Student Lightning Talks

Moderators: Greg Lund

10:30-12:00pm

Room 317

**Evaluating King County GIS Against the
GMI GIS Assessment**

Speakers: Greg Babinski

11:00-11:30am

Room 316

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Developing Owner Notify Tool using Geocortex Essentials

Speakers: Subu Swaminathan
11:00-11:30am
Room 315

ESRI: ArcGIS Online Management Tips and Tools for Success

Speakers: Shane Clarke
11:15-12:00pm
Room 318

Transforming Tacoma Water with GIS

Speakers: Lisa Stapleton
11:30-12:00pm
Room 316



HEXAGON
IMAGERY PROGRAM

WAURISA Leadership Meeting

Speakers: Joshua Greenberg
12:15-1:15pm
Room 317

Leadership Discussion

Speakers: Joshua Greenberg
1:30-2:00pm
Room 317

Being Creative with GIS Solutions

Speakers: Don Burdick
1:30-2:15pm
Room 316

Building Aggregated, Master Addressing API's – From Concept to Pre-Production

Speakers: Joy Paulus
1:30-2:15pm
Room 315

Cityworks

Speakers: Joe Pilimai
1:30-2:15pm
Room 318

Changes to the Dick Thomas Award

Speakers: Sarah Myers
2:00-3:00pm
Room 317

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Using Python for Data QC in an Enterprise GIS

Speakers: Ann Stark
2:15-2:45pm
Room 315

FAMIS - Use Cases for Leveraging the ESRI Platform

Speakers: Aaron Paul
2:15-3:00pm
Room 316

Pictometry

Speakers: Paul Canizaro
2:15-3:00pm
Room 318

Efficient Caching of Spatial data for Offline Navigation on Mobile Device Browsers

Speakers: Venkata Sai Girish Konda
2:45-3:00pm
Room 316



Acknowledgements

Every GIS conference is a labor of love supported by volunteers who contribute hundreds of hours of their time to the effort. It would not be possible to bring you these fun and educational opportunities without the contributions of the following people:

Conference Chair: **Sarah Myers**

Program Coordinator: **Steve Schunzel/Lisa Stapleton**

Workshop Coordinator: **Renee Opatz**

Vendors Coordinator: **Heather Glock/Joy Paulus**

Finance & Registration: **Don Burdick**

Booklet/Digital Design: **Christina Chelf/Josh Greenberg/Ann Stark**

Marketing: **Amanda Taub/Bill Roberts**

Website: **Cort Daniel**

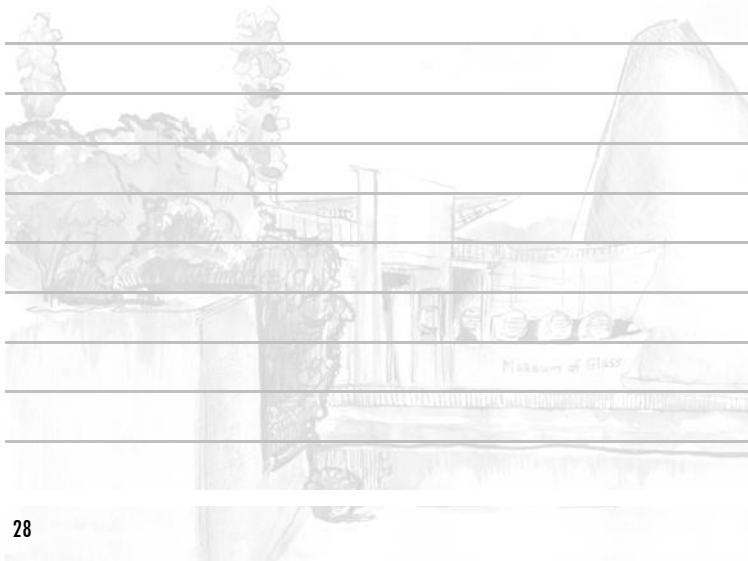
Volunteer Coordination: **Kerri O'Connor**

Poster Contest: **Kerri O'Connor**

Social Events: **Josh Greenberg/Christina Chelf**

Nominations: **Ian Von Essen**

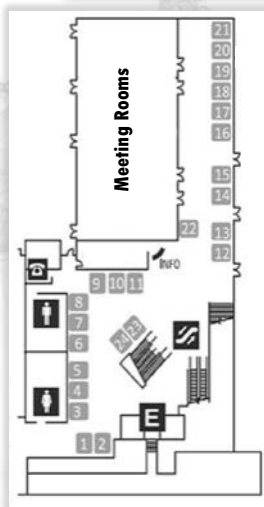
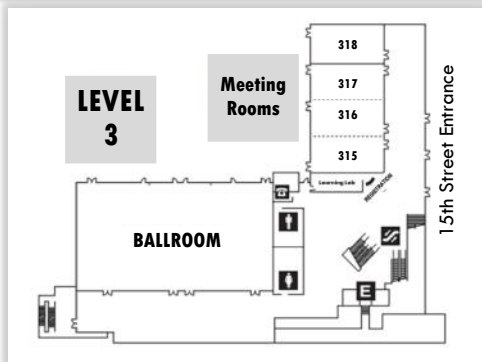
Notes



Notes



Facility Map



Locations Map



TUESDAY

Steel Creek
1114 Broadway
6:30 pm



HOTEL

Hotel Murano
1320 Broadway Plaza



CONVENTION CTR

Tacoma Convention Center
1500 Broadway



MONDAY

The Social Bar & Grill
1715 Dock Street
6:00pm



Check out the
detailed schedule
with the new app
from Sched.org!



#WAGIS16

Kalina Wilson