

Symposium by the Sea 2017

From Field to Table: Stories in Mapping



Florence Event Center

October 6, 2017

9:30 am – 4:00 pm

Agenda

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| 9:30 – 9:40 | Welcome |
| 9:40 – 10:15 | Pat Kight – Beyond Technology: Finding the Story |
| 10:15 – 10:55 | Brendan C. Ward – The Story of a Place |
| 10:55 – 11:10 | Break |
| 11:10 – 11:50 | Jen Martin – Mapping the Dead |
| 11:50 – 12:30 | Tanya Haddad – Mapping Oregon’s King Tides |
| 12:30 – 1:30 | Lunch |
| 1:30 – 2:10 | Rich Ash – Bring Your Own Device |
| 2:10 – 2:25 | Break |
| 2:25 – 3:05 | Kyle Marenger – Habitat Mapping and Classification |
| 3:05 – 3:35 | John Sharrard – Introduction to Story Maps in ArcGIS |
| 3:35 – 4:00 | Panel Discussion |
| 4:00 | Adjourn – |
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| 4:30 – 5:30 | Please join us for a no-host Happy Hour at Mo’s On the Wharf Restaurant in Old Town. |

Presenters

1. Keynote Speaker --- Beyond Technology: Finding the Story

Pat Kight | Science communicator and journalist | Albany, Ore

Pat Kight is a story-teller by nature and a science communicator by profession. She recently retired after 29 years as web master, photographer and sometimes science writer for Oregon Sea Grant at Oregon State University. Before going to work at OSU she was a reporter for the Oregonian, the Corvallis Gazette-Times and the Associated Press Detroit Bureau. She did all those jobs while pursuing her real passion, producing and directing live theatre. Pat approaches the topics of today's seminar from that perspective: Don't let the technology—however wonderful—get in the way of telling a good story.

2. The Story of a Place: Sharing an effective narrative through creative presentation of geographic data

Brendan C. Ward | Software Engineer | Conservation Biology Institute | Corvallis, Ore.

Improved technology for data collection is transforming monitoring and management of natural resources. Improving management and decision-making requires effective communication of information. Using monitoring data to tell the story of a place or a living thing in an integrated, visual manner can make it easier for stakeholders to interpret data and make decisions. Mobile devices are also reshaping data communication, yet most data visualization tools still target desktop browsers. Adapting a data-rich visualization experience for a small screen requires making tough decisions around what information to highlight, and what information to leave out altogether.

Presenter Brendan Ward leads the software engineering team at the Conservation Biology Institute. He draws from a background in landscape ecology, ecological modeling, GIS, and software development to create useful and intuitive map-based data sharing and visualization tools. Brendan will share two stories about visualization approaches to create narratives around spatial data. The first story is of efforts to improve the usefulness of monitoring data of rare plants; the second highlights unique challenges and lessons learned from adapting a web-based regional conservation planning tool for smart phones.

Phone (541) 368-5815; bcward@consbio.org

3. Mapping the Dead: A Proof-of-Concept for Building Mobile-Friendly Web Mapping Capacity in a Tribal Environment

Jen Martin | Data Coordinator | Confederated Tribes of the Siletz Indians | Siletz, Ore.

In 2009 the Confederated Tribes of Siletz Indians, a federally recognized American Indian tribe located in Siletz, Oregon, began a project to map gravesites in the Paul Washington Cemetery, where many of the Tribe's ancestors are buried. A series of paper maps was created, but what about the rich set of cultural and historic information that was a byproduct of the project?

Starting with the map of the Paul Washington Cemetery, Data Coordinator Jen Martin began a pilot project this summer to develop new, mobile-friendly online maps using the open source tools Leaflet and the new Leaflet for R package. The rich set of information from the cemetery mapping project can now be displayed and explored. And family members can now take their phones to the 11-acre cemetery and use the web map's fuzzy text search and geo-location features to help locate loved ones.

Presenter Jen Martin is a data coordinator for the Planning Department of the Confederated Tribes of Siletz Indians.

Phone (541) 444-8271; jmartin@ctsi.nsn.us

4. Mapping Oregon's King Tides

Tanya C. Haddad | Oregon Coastal Management Program Oregon Dept. of Land Conservation and Development | 800 NE Oregon Street, Suite 1145 | Portland, OR 97232

Documenting the highest annual reach of the tides tells us something about what flooding and erosion can do to natural features such as cliffs and wetlands, and to the built environment of roads, seawalls, trails and bridges. Through Oregon's King Tide Project, citizen scientist photographers trace the intersection of the ocean with land, documenting the reach of the year's highest tides. Since many of these areas are subject to seasonal or chronic flooding now, the highest high tides—called king tides—tell us even more about what to expect as sea level rises. This presentation tells the story of Oregon's King Tide project and discusses the evolution of methods used to capture images and bring them into a king tide database. The project has evolved over eight years, as have the tools used to capture photos in the field, share them, and build a King Tide image database.

Presenter Tanya Haddad administers Oregon's Coastal Atlas (www.coastalatlus.net) a web-based tool for delivering data, maps, and other information about Oregon's coastal resources and features to users via the Internet.

Phone (971) 673-0962 Tanya.Haddad@state.or.us

5. Bring Your Own Device: High Accuracy GIS mapping & navigation with a smart phone or tablet

Rich Ash | GNSS/Mobile Technology Specialist | GeoMobile Innovations, Inc. | Corvallis, Ore.

Smart phone and tablet apps such as Esri's Collector and Survey 123 are dominating the Mobile GIS discussion and disrupting the case for traditional work flows for field data collection. However, our phones' internal GPS lack the accuracy demanded for GIS data collection. With today's professional high accuracy "Bring Your Own Device" (BYOD) receivers, we can quite easily connect to our phones and tablets running Collector and enable *1-centimeter or sub-meter* mapping and navigation. To make it even more do-able, we are blessed in Oregon to have the ORGN, a free, real-time RTK network.

Presenter Rich Ash is president of GeoMobile Innovations, a 20+ year veteran of helping field users deploy GPS and an evangelist for BYOD GNSS/GPS. Over the past year he's been spending most of his time helping organizations deploy centimeter (and sub-meter) GNSS receivers into their favorite Mobile GIS workflows.

Phone: (541) 754-3488 Email: rich@geomobileinnovations.com; www.geomobileinnovations.com

6. Habitat Mapping and Classification With Trimble Products in the South Slough Reserve

Kyle Marenger | GIS technician | South Slough National Estuarine Research Reserve | Charleston, Ore.

The mission of Oregon's South Slough National Estuary Research Reserve is to improve the stewardship and understanding of Pacific northwest estuaries and coastal watersheds. Staff are using GIS technologies to classify and map 5,000 acres of estuarine and upland habitat. The results of this work will inform future decisions affecting the management of Coos estuary shorelines. This presentation will highlight in detail the steps used in this process.

Phone: (541) 888-5558 Email: kyle.marenger@state.or.us

7. Introduction to Story Maps in ArcGIS Online

John Sharrard | GIS Solutions Engineer | Esri | Canby, Ore.

Story Map is Esri's solution for producing maps that carry their story with them. This presentation will demonstrate the fundamentals of working with Esri's story map templates, choosing the best template for your story, and tips for story map success. Discussion includes the latest developments in the story map system and what is planned for the future.

Presenter John Sharrard is a Solutions Engineer for Esri supporting Esri's customers in the Pacific Northwest. His clients include local government offices working with 3D GIS, GeoDesign, land records, and transportation. John is a graduate from the GeoScience program at Oregon State University. He has 29 years of experience working with GIS.

Phone: (503) 880-7594 Email: jsharrard@esri.com

A Special Thanks to:

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