Working with the AP Human Geography Classes at Squalicum High School
By: Chris Behee—Sr. GIS Analyst, City of Bellingham

AP Human Geography is the most popular Advanced Placement class offered to freshmen at Squalicum High School in Bellingham. Squalicum offers a wide variety of AP classes covering the arts, sciences, math, language, and history. These classes provide students a more rigorous academic environment, and opportunities for college credit. The Geography class is a popular first AP class with freshmen because it focuses on teaching the study habits, and skills needed for more difficult AP offerings. Human Geography is also a topic ideally suited for freshmen because it provides the contextual geo-political, physical, and cultural fabric for students to place what they will learn throughout high school and college in their history, language, art, and science classes.

President’s Column: Tacoma 2016
By: Josh Greenberg — Senior GIS/Remote Sensing Analyst, Skagit County

As the weather warms I can feel my anticipation grow both for summer and our upcoming WA GIS conference. Every year I look forward to this meeting and not just because of the numerous learning opportunities. And although you would be partly right by guessing the social events are my favorite part of the conference...the truth is I particularly enjoy being surrounded by fellow GIS enthusiasts. There is something very difficult to quantify about the benefits of bringing this many GIS people together. The (Continued on page 2)
Working with the AP Human Geography Classes at Squalicum High School

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(about 140 students) of AP Human Geography each semester.
In addition to covering the national AP standard curriculum, they add a host of current events, local geography, and related material to keep students interested and engaged in the topic. As the holder of a Geography degree from Western Washington University (1990) I was very happy when my oldest son Ethan decided to take the AP Geography class in 2012, and again when my youngest son Mark enrolled in the class last year. They both thoroughly enjoyed the topic and the myriad ways Mr. Richardson enhanced their classroom experience.

My involvement with the class began when Mark asked if I would be a guest lecturer as part of an extra-credit assignment for his class. I was asked to speak on the variety of potential careers and fields open to Geographers, and specifically about my job as a GIS Analyst at the City of Bellingham. As you might imagine, the most difficult part of the whole exercise was condensing the multitude of possible career options and my experience at the City into something close to a 45 minute talk. I managed to cover the highlights of a sampler of Geography jobs both locally, and around the world — including urban planning, resource management, agribusiness, transportation, health care, utilities, marketing, energy development, climate change, emergency management, and the diplomatic corps. For the second part of the talk I dove into my involvement providing GIS support for Bellingham’s efforts planning urban villages, the Waterfront redevelopment project, providing services to homeless populations, using LiDAR and color-infrared remote sensing data, tracking rental housing, and developing bicycle and pedestrian infrastructure plans.

The class was excited about the talk, the GIS technology, and the glimpse it provided into the real world beyond the Geography textbook. This past April, Mr. Richardson and Mr. Herman asked me back to spend a full day presenting to all 5 of their classes. I fine-tuned the presentation and updated a few things from the previous year’s material. It was a long, but fun day talking to each of the classes. What struck me most was how perceptive the comments and questions from the students were. It was clear that after being in the class for 6 months, the students had a sophisticated understanding of broad socio-economic concepts, stages of cultural development, and demographics. They asked relevant questions about Bellingham’s neighborhood planning efforts, how gentrification is affecting housing choices, and how sustainable our transportation systems are. I was encouraged that even if only a few of these students go on to careers in Geography, they will all have a basic understanding of how the world works and how inter-related the choices they will make are for all of our futures.

If any of you have opportunities to share your work experiences with local classrooms I would encourage you to do so. It’s a great way to enrich their lives and your own.

Chris Behee - GISP
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The class was excited about the talk, the GIS technology, and the glimpse it provided into the real world beyond the Geography textbook.
President’s Column: Tacoma 2016

(combined from page 1)

A combination of people just learning about GIS with those that have been practicing for more years than they care to admit, from the people who steal away from their current jobs to learn some new tidbits to those looking to find their first job or make the final push to finish their formal education, all this brings an energy that is inspiring and invigorating.

Following the tradition of high class conferences, this year looks to be another successful event brought together by a hard working conference committee and all the contributors that make these conferences so wonderful. The conference returns to Tacoma which has been an ever improving location and a convention center that works perfectly for conferences of our size. The increase in high quality restaurants in the vicinity have made it even easier to find good spots for our evening socials.

The annual conference also marks the time that WAURISA holds the membership meeting where we all have a chance to sit together over lunch and talk about opportunities to volunteer with WAURISA as well as hear ideas for new directions for the organization.

Our conference theme is about evolving and I can think of no better time to look at how WAURISA has changed in the past and where we would like to see it go in the future. This organization is nothing without its members and volunteers and there are numerous opportunities to get involved.

I hope that all of you are able to make it to the conference and partake in the learning, sharing and comradery that is so prevalent at these events. Check out the new online schedule app to get a sense of all the good things that are in store.

I look forward to seeing you in Tacoma!!

Josh Greenberg—Ph.D.
Senior GIS/Remote Sensing Analyst
Skagit County
president@waurisa.org
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For the past year or so, I’ve been part of a team at Esri that is developing the ArcGIS Maps for Adobe Creative Cloud extension. Our goal is that this extension will provide Adobe Creative Cloud users with web maps so that they can download these maps directly into their Adobe design environment from ArcGIS Online. For example, with this extension, a user can sign into their ArcGIS Online account directly from Illustrator, find geographic content that fits their map requirements, and download this content into their Adobe Illustrator file. It is a seamless workflow since cartographers and designers can create a map with spatial data without having to leave Adobe Illustrator. The result is a vector map containing specifications that are set by the user in the extension. Designers and cartographers can then leverage Illustrator’s graphic editing power to design their map as they desire.

There are a lot of mapping and GIS organizations and companies who have a GIS analyst or team and a designer or team of designers. These two groups, GIS analysts and graphic designers, often have different priorities during their map-making process, and this extension we’ve been developing provides a collaborative tool for analysts and designers to work together in their organization’s map-production workflow. GIS analysts can add their well-prepared and precisely analyzed map data to their organization’s ArcGIS Online account, and designers can easily access this data from Adobe Creative Cloud applications. Allowing designers the opportunity to create their maps in a graphic design tool that they are familiar with greatly improves the map editing workflow efficiency and results. Of course there is the third type of user – the person who is skilled at both GIS and graphic design. The ArcGIS for Adobe Creative Cloud extension is a great tool for these users as well.

(Continued on page 6)
ArcGIS Maps for Adobe Creative Cloud Extension

(Continued from page 5)

The development team that I am part of at Esri knows that a lot of static mapping is completed in Adobe Illustrator. In fact, as a cartographer myself, this is how I create most of my static maps as well. The GIS-export-to-Adobe Illustrator workflow is the one I was trained to follow at the University of Wisconsin-Madison, and after I was hired as a cartographer at Kulshan Cartographic Services in Bellingham I soon discovered that this workflow is a very common practice in the professional cartography world. Now that I am at Esri, it very exciting to be part of a team that is making this process a lot easier and reproducible.

We have been conducting usability testing, and our current goal is to have the beta version of the ArcGIS for Adobe Creative Cloud extension released around the same time as our Esri User Conference this June. The very talented team I am part of that is working towards this date includes the following: Clint Loveman, Wendy Kallio, Steven Moore, Xingdong Zhang, Madhura Phaterpekar, Sarah Musa, Praveen Srivastava, Yash Gupta, Joseph Munyao, and several others who have contributed to the successful development of this new piece of Esri software.

For more information on beta for this product: http://www.esri.com/adobecc

Sarah Bell
Cartography Lab
ESRI Professional Services
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Are you ready to join us for the premiere 2016 Washington GIS conference, May 23-25? If not, you need to hurry! We are returning to Tacoma Convention Center and are excited for our lineup, we know you will be too!

Workshop seats on the 23rd are filling quickly; sign up for Cy Smith daylong Program Management class, join Jim Lahm for some hands on Trimble training, or many other exciting classes. Not only is Monday a day to learn, you can reconnect with others during lunch in the city. At the end of the day all workshop attendees and volunteers will be hanging out at the Social Bar, unwinding with complementary appetizers and great company!

New this year, and free for any government leader is our new half day summit. 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.

Our theme this year is “GIS Evolved: Transforming our world” to help kick off our conference we will be joined by Josh Howell. He regularly consults with organizations on (Continued on page 8)
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. Next, our presentations will range from lightning talks on teaching GIS in the developing world, or panels on GIS Professional Development, plus many others.

Our volunteers are working hard to bring you the best conference yet. There is still time to submit a poster for our contest. We love seeing all the hard work you are doing, so don’t be afraid to share! We ask entrants to discuss how their submission relates to the theme. Maps and posters will be accepted for display only, depending on space availability. Entrants do not have to attend the conference; however, there is no guarantee their entry will be displayed. You can get to the submission page here: [http://www.waurisa.org/conferences/Abstract_submissions/PosterContest.php](http://www.waurisa.org/conferences/Abstract_submissions/PosterContest.php)

Our hotel accommodations are offered at the Hotel Murano, across the street from the convention center. Rooms are filling fast, so don’t wait reserve your space!

Our vendors are lining up to show you their products and get you excited to attend a vendor presentation or two! Tuesday evening don’t leave after the last presentation because we will socializing with our vendors, and of course, eating! Later we will be wandering a couple blocks down the road to Steel Creek Bar to enjoy more munchies and maybe a game of pool or a ride on the bull!

We are also very excited to welcome King’s Books back as our book seller! They loved joining us in 2014, and are ordering new and classic books for you to check out in May.

On our website you will find all the information you need to register, write a justification letter for your boss, read about our different workshop offerings, or send us an email with questions. For more information please visit, [http://waurisa.org/conferences/2016_Conference_Index.php](http://waurisa.org/conferences/2016_Conference_Index.php)

*By: Sarah M. Meyers
WAURISA Conference Chair
Peninsula Light Company*
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GIS User Groups in Washington

ACSM – Washington State Section  
[www.wss-acsm.org](http://www.wss-acsm.org)

Cascadia Users of Geospatial Open Source  
groups.google.com/group/cugos  
Contact Karsten Venneman

Central Puget Sound GIS User Group  
Join Listserve [here](#)

Central Washington GIS User Group  
https://www.linkedin.com/groups?home=&gid=8252704  
Meets the 2nd Wednesday of each month.  
Contact Amanda Taub

Cowlitz-Wahkiakum GIS User Group  
Meets the first Wednesday of each month at 3:00 pm at the  
Cowlitz County Administration Building, general meeting room  
(GMR-3rd flr), 207 North 4th Ave, Kelso WA (unless other location is announced).  
Contact David Wallis

King County GIS User Group  
Meets 1st Wednesday every other month at 11:00am at the  
KCGIS Center, 201 S. Jackson Street, Seattle WA, Conf Room  
7044/7045.

Northwest Washington GIS User Group  
[www.wwu.edu/huxley/spatial/nwwgis/nwwgis_mtgs.htm](http://www.wwu.edu/huxley/spatial/nwwgis/nwwgis_mtgs.htm)

Southeast Washington/Northwest Oregon GIS User Group  
http://gisgroup.wordpress.com

Washington Geographic Information Council (WAGIC)  
[geography.wa.gov/wagic](http://geography.wa.gov/wagic)  
Join Listserve [here](#)

Washington Hazus Users Group  
http://www.usehazus.com/wahug  
Contact Kelly Stone

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To have your GIS-related group or event listed in future issues of *The Summit*, notify the editor at: Summit@waurisa.org

To be added to *The Summit* mailing list, contact: Marketing@WAURISA.org

Back issues of *The Summit* are available at: http://waurisa.org/thesummit/

Interested in volunteering your time to help WAURISA? Contact any Board member listed on the right.

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WAURISA Contacts
3D Printing—From the Basement to the Boardroom
By: Jacob Tully—GIS Coordinator, Swinomish Indian Tribal Community

Nestled in the hills of beautiful Tumbler Ridge, British Columbia, a new 3D printing venture is taking hold. Jody Mitchell, founder of Filaprint and mother of two launched the business idea 18 months ago when she ordered a 3D printer, and started making eco-friendly, made to order gadgets and gizmos in her basement. While the venture started with small trinkets, Mitchell began making terrain models when she was approached to make a model for the Emperors Challenge ½ Marathon. Mitchell recognized for their ability to foster communication across diverse cultural, educational, and language barriers to deepen understanding about the land being discussed. She noted that when compared to the standard topographic map, the models leave little doubt about exactly what land is at issue in any discussion.

Due to the cost of manufacturing (a 2’x2’ print retails for several thousand dollars), Filaprint is currently focused on legacy pieces for land owners, as well as industry and governmental clients. In addition, Filaprint also offers 3D printing setup and consultation services.

For more information about Filaprint, please visit: www.filaprint.ca

Jacob Tully
GIS Coordinator
Swinomish Indian Tribal Community
jtully@swinomish.nsn.us

Filaprint founder Jody Mitchell with finished model in the field.

uses a combination of publicly available geographic data augmented with aerial drone photography & drone derived point cloud data to develop the three-dimensional inputs for the printer. She then uses a four-step proprietary process to produce a finished product. While Mitchell couldn’t give away details about every step of the process she did say that she uses Simplify 3D for the digital slicing and a printer from Imagination Technology to create tiled maps that she then fuses together and hand paints to create a realistic product. The medium used by the printer is biodegradable polylactic acid (PLA) and is derived from plant matter.

When asked about upcoming projects Mitchell couldn’t comment, but did go on to say that the models are being

A Filaprint Model
Esri’s geographic information system (GIS) software gives you the power to think and plan geographically. GIS is used in more than 350,000 organizations worldwide. It helps cities, governments, universities, and Fortune 500 companies save money, lives and our environment. Whether transporting ethanol or studying landslides, these organizations use GIS to collect, manage, and analyze geographic information, which helps them see relationships, patterns, and trends. They can then solve problems and make better decisions because they are looking at their data in a way that is quickly understood and easily shared.

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GeoTerra, Inc. is a leading provider of Aerial Acquisition, LiDAR, and Mapping Services with a broad base of experience to support clients throughout the United States, with a particular emphasis in the Pacific Northwest. The Company focuses its efforts on geospatial data acquisition to include: aerial photography, LiDAR data collection & integration, Geographic Information Systems (GIS), GPS surveying, feature data collection, terrain modeling, contour development and Orthophotography generation.

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Alsea Geospatial, Inc. (AGI) incorporated in Oregon in 1996 and quickly developed a core natural resource GIS services business. AGI has grown into an IT company providing mobile apps, custom software development, database administration, GIS analysis and cloud hosted web mapping sites. We build software and web mapping sites that are intuitive and easy to use. We provide both custom and commercial off-the-shelf products that cater to the needs of today’s mobile workforce. Our software engineers, database developers, technical writers and GIS analysts are experienced in delivering products that integrate maps and data. Our clients include large federal land management and research agencies, state and regional governments, municipalities, private and public corporations, and non-profit organizations.

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GeoCue Group was founded in 2003 by a group of engineers with extensive experience in developing hardware and software solutions for primary remote-sensed data acquisition. Today GeoCue workflow management tools are used by a majority of North American geospatial production shops. In 2009 GeoCue acquired QCoherent Software LLC, the creator of the point cloud exploitation toolset, LP360. GeoCue is the largest supplier of kinematic LiDAR processing tools in North America and LP360 is the world’s most widely used tool for exploiting point cloud data, from both LiDAR and sUAS systems, in an ArcGIS® environment. For more information visit www.LP360.com.
Latitude Geographics helps organizations succeed with web-based geography by enabling them to make better decisions about the world around them. Geocortex software by Latitude Geographics transforms how organizations design, develop and maintain Esri ArcGIS Server and ArcGIS Online web mapping applications. They do more; faster, at less cost and risk, and with better results.

ArcGIS by Esri is the world’s leading GIS platform and Latitude has been an Esri Platinum Partner since 2010.

The Urban Studies Program offers a Master of Science in Geospatial Technologies degree. Admission is open during autumn quarter only and will be comprised of a 20 student cohort. The degree will provide advanced training in GIS, training students to use and apply geospatial hardware, software, and data in urban and environmental planning scenarios. It will also prepare students to become leaders in the management and utilization of geospatial technologies within the job market -- public, private, and not-for-profit sectors. It will also offer training in the development and deployment of location-based mobile applications and management of web-based geospatial data. This program will maintain a theoretical/critical focus on the application of these technologies to urban and environmental problem solving.

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The Swinomish people live in the Skagit Valley of Washington State, rooted along the Salish Sea. We are the People of the Salmon and our way of life is sustained by our connection to the water and the lands where we have fished, gathered, and hunted since time immemorial. The Swinomish Indian Tribal Community is federally recognized and operates under Constitution and Bylaws adopted in 1936 pursuant to the Indian Reorganization Act of 1934.

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The Editors
By: Jacob Tully, Editor-in-Chief & William Jonsson, Assistant Editor

We hope you have had as much fun reading this issue as we did putting it together. From hearing about an exciting new ArcMap extension to interviewing a young geography minded entrepreneur, to seeing about how GIS can help inspire the next generation of geo-thinkers and doers, the diversity of work going across the GIS spectrum is amazing. We look forward to hearing more of your successes, and occasional failures, at the upcoming WAURISA conference in Tacoma this month.

Jacob Tully is the GIS Coordinator at the Swinomish Indian Tribal Community. When he’s not contemplating geodatabase design or working on The Summit, he can be found cooking, hiking, and spending time with his family in Bellingham, Washington.

William Jonsson has served as a medic in the U.S. Army and has also worked on the University of Washington Bothell Policy Journal as an Editorial Board member. As a recent graduate, he sees contributing to The Summit as an excellent opportunity to become more familiar with work going on in the field of GIS and to see the innovative ways the strengths of GIS can be brought to our communities.

Washington URISA is changing our email provider from RegOnline to MailChimp. Here is your opportunity to opt-in to the new email list. If you did not complete the opt-in survey sent in January, but want to continue your subscription to The Summit and continue to receive geospatial news from WAURISA, then please send an email to marketing@waurisa.org.