2012 WCCS SURVEY CAMP WORKSHOP SCHEDULE

DATE	8:00 – 10:00 a.m.	10:00 – Noon	LUNCH	1:00 – 3:00 p.m.	3:00 – 5:00 p.m.	Evening Session
TUESDAY JANUARY 17 2012	Registration	Fennelle Miller History of Transportation Scott Williams Cultural Resources and Regulations: What Surveyors Need to Know	LUNCH	Dave Berto, PLS & Jim McLefresh Document Research & GPS Projects	Dave Berto, PLS & Jim McLefresh Document Research & GPS Projects	GeoLine
WEDNESDAY JANUARY 18 2012	Larry Signani, PLS What You Need to Know About GPS: NA2011; GEOID12; WSRN; GRAV-D; & OPUS	Larry Signani, PLS What You Need to Know About GPS: NA2011; GEOID12; WSRN; GRAV-D; & OPUS	LUNCH	Denny DeMeyer, PLS 2011 David Thompson Columbia Brigade / Evolution of the Oregon Territory & International Boundary	BPA Staff BPA Rights-of-Way: Retracement Surveys and Principles	PPI Group
THURSDAY JANUARY 19 2012	Tom Gray, PLS County Right-of-Way Principles and Descriptions	Tom Gray, PLS County Right-of-Way Principles and Descriptions	LUNCH	Mitchell Duryea, PLS Survey Math: Calculations and Applications	Mitchell Duryea, PLS Survey Math: Calculations and Applications	Kuker Ranken
FRIDAY JANUARY 20 2012	Brian Blevins, PLS The History of Surveying & Measurement Tools and Technology	Brian Blevins, PLS The History of Surveying & Measurement Tools and Technology	LUNCH & Door Prizes	**WCCS Annual Meeting**		

Schedule Notes:

1. Breakfast begins at 7:00 A.M. each morning.
2. Lunch and dinner are served at noon and 6:00 P.M. respectively. Prior to dinner on Tuesday, Wednesday and Thursday nights, local surveying equipment vendors will be displaying and demonstrating the latest in surveying equipment. Your participation with the vendors is encouraged and helps insure they will return next year.
3. Breaks are scheduled at 1-2 hour intervals at the discretion of the instructor. Coffee and sodas will be available during breaks.
4. All participants are urged to stay for lunch on Friday to participate in distribution of door prizes.

2012 WCCS SURVEY CAMP
20th Anniversary
January 17th – 20th, 2012

Workshop Speakers

……

History of Transportation

Fennelle Miller is an archeologist by trade and by love. She has spent over 19 years working in archaeology and history in a variety of settings. She has worked for two Native American Tribes, private consulting firms and in all levels of government. She has taught anthropology and archeology courses at several universities including Central Washington University. Fennelle has a Master's Degree in anthropology and shares her experience and knowledge in historic preservation as a volunteer of "Historic Ellensburg". She has served on the Ellensburg City Planning Commission, and has served for 4 years on the Ellensburg City Council.

……

Cultural Resources Rules & Regulations: What Surveyors Need to Know

Scott Williams has worked for a variety of federal, state, and private agencies as an archaeologist for the last 25 years. He is currently the Cultural Resources Program Manager for WSDOT, where he oversees a staff of nine archaeologists and historians working on transportation projects. Prior to joining WSDOT, he worked for the Washington State Department of Archaeology and Historic Preservation reviewing projects on state and private lands.

This presentation will give an overview of the kinds of historical resources that surveyors are likely to encounter during the course of their work, and what laws and regulations apply to those resources that that are important for surveyors to know. Examples will include historical survey and trail markers, and the differences in laws for public, private, and federal lands.

……

Document Research & GPS Projects

Dave Berto, PLS has worked for Spokane County as a Land Surveyor since 1992 doing Right of Way Surveys, Topographical, GPS and Boundary. He will demonstrate how Spokane County Public Viewer operates when doing research within Spokane County.

Jim McLefresh has worked for Spokane County as a GPS Survey Technician since 1992. He helped develop the Spokane County GPS Program. He was instrumental in establishing the VRS Network in Eastern Washington. He has been a guest speaker for the last five years at Trimble's GPS Dimensions Conference. He is currently preparing Spokane County for their conversion from Land Desktop to AutoCAD 2012 Civil 3D.

He has a MA in Professional Training and Development and a MS in College Instruction, Technology. He has taught High School Physics and Graphic Design at Eastern Washington University. He is currently a curriculum advisor for Spokane Community College in the Civil Engineering Technician Program. Jim is retired from the U. S. Air Force.

He will be speaking about GPS field topo procedures. He will also talk about how you can use to solve some of the GPS problems you encounter in the field.

……

What You Need to Know About GPS: NA2011; GEOID 12; WSRN; GRAV-D; & OPUS

Larry Signani, PLS currently serves as survey project manager at W&H Pacific. He is a member

of the Society of American Military Engineers, past president of the Washington Land Surveyors Association of Washington, and past chairman of the Washington State Section of American Congress of Survey and Mapping. Larry's work with Geodesy and Cartography projects includes photogrammetry, LIDAR and remote sensing projects. This includes establishing ground control, Aerial Triangulation and Airborne GPS. He is highly experienced in Global Positioning Technology. He has worked with all types of GPS mapping projects and control networks across the country. He is highly skilled at airborne GPS mapping and aircraft camera equipment installation. He was an instructor of Advanced Surveying and Mapping for the US Army at Fort Belvoir and Huntsville, Alabama, for 14 years. He is the GPS committee chairman for the Land Surveyors Association of Washington. Larry is presently providing computations for the Washington State Real Time Network to allow for the use of real time GPS positioning in the State. He is presently working with the Washington Department of Natural Resources Spatial Reference Center and National Geodetic Survey on Height Modernization in the State of Washington. Larry is a native of Washington and lives in Enumclaw.

His presentation will discuss the changes that brought about the new adjustment and how it will affect the surveyors in Washington State.

What the changes are in the data and how we will use it in our future surveying projects.

The new geoid model Geoid12 will be discussed and both the changes in the coordinates and the elevations will be presented.

Future changes with the Washington Real Time Network (WSRN) will be covered.

Changes in OPUS computations will be shown and what the future holds regarding the use of OPUS- Projects for county survey projects.

GRAV-D will be discussed in regard to a new basis for vertical in the future.

……

2011 David Thompson Columbia Brigade / Evolution of the Oregon Territory & International Boundary

Denny DeMeyer, PLS has owned and operated a small private land surveying business in Lynden, WA for over 27 years. He is a long-time member of the Surveyors Historical Society and former chairman of the Land Surveyors Association of Washington Historical Society. Denny and Delores, his wife for almost 40 years, have been promoting the surveying profession by commemorating historical surveying events and anniversaries since 1985.

2011 DAVID THOMPSON COLUMBIA BRIGADE: In 1811: David Thompson, surveyor and fur trader for the North West Company reached the Pacific Ocean, adding the Columbia River as the final leg of the Fur Trade Highway from Hudson's Bay and Montreal to the Pacific Ocean and becoming the first person to travel, survey and map the Columbia River from its source near Invermere, British Columbia to its mouth at Astoria, Oregon. On June, 3, 2011, ten 25 foot long Voyageur Canoes left Invermere, British Columbia on six week, 1,100 mile, (1,700 kilometer) trip to Astoria, Oregon via the Kootenai, Clark Fork, Pend Oreille and Columbia Rivers. Two of the ten voyageur canoes in that brigade were entered by a group called the North American Land Surveyors, They arrived in Astoria, Oregon on July 15, 2011, 200 years to the day after David Thompson's arrival in 1811.

EVOLUTION OF THE OREGON TERRITORY AND THE INTERNATIONAL BOUNDARY: Much of the route of the 2011 DTCB was along the rivers proposed as the international boundary by the British for almost 40 years (1807-1845). If the British positions had been approved, much of what is now in Washington State north and west of the Kootenai and Columbia Rivers would have ended up in Canada. If some of the United States various positions had been approved, the entire Puget Sound area would have ended up in Canada.

Denny has a power point presentation that will show pictures of the 2011 DTCB together with historical maps tracing the various proposed

boundaries by both nations together with how cartographers depicted the hotly disputed Oregon Territory during those years.

……

BPA Rights-of-Way: Retracement Surveys and Principles

BPA Staff

Agenda:
BPA History and Background
Historic BPA R/W survey procedures
Current BPA R/W retracement principles
Case histories
Lucas Report

……

County Road Right-of-way Principles and Descriptions

Tom Gray, PLS is the County Surveyor for Grays Harbor County. He began his surveying career in 1982 as a Field Artillery Surveyor (82C). He began surveying for the private sector as a chainman for Keyes and Associates in 1992. In 1995 he began working for Pacific County as a survey technician. Then in 2001 he made the transition to Grays Harbor County where he was the assistant county surveyor for 10 years.

County Right of Way principles is a presentation that is designed to inform the public works employee about the standards and regulations involved in researching current records and acquiring additional rights of way/easements. The focus will be on the current practices and procedures in dealing with this subject as well as the legal descriptions used to identify these areas. We will also be discussing how these rights of way are vacated

……

Survey Math: Calculations and Applications

Mitchell Duryea, PLS received his Bachelor of Science in Surveying and Photogrammetry from California State University, Fresno in 1984, and is the President of Duryea & Associates, P.S., a Surveying and Mapping firm located in Spokane Washington. In 2009, Mitch joined the faculty at the Oregon Institute of Technology in Klamath Falls Oregon where he teaches all the Boundary Law and Legal Principles courses.

Mr. Duryea has presented workshops and seminars for the State Surveying Associations in the states of Washington, Oregon, and California. In addition, He has taught courses for WCCS, East Bay Municipal Utility District, Inland Power & Light Company, National Business Institute, and Pacific Land Seminars.

Mr. Duryea has been a guest lecturer and speaker for the Geomatics Programs at California State University, and he is licensed in the states of Washington, Oregon, California, Idaho, New Mexico, Oklahoma, Nevada, and Hawaii.

The course will provide a review of surveying math. There will be discussions, examples and sample problems. The focus will be on interactive problem solving along with group breakout activities. Be sure to bring your calculator, pencils and paper!

……

The History of Surveying and Measurement Tools and Technology

Brian Blevins, PLS is the Business Development Manager for Tetra Tech's Survey group in Bellevue, Washington. Over the last 30 years, Brian has been employed in a wide variety of industries, including the Department of Defense (United States Marine Corps), Oil and Gas, Private Land Development (Hugh G. Goldsmith), and Public Works (CH2M HILL, INCA Engineers, Tetra Tech).
Brian regularly presents workshops on a wide range of topics from Standards and Specifications to LiDAR to Survey History. He has presented at the International Federation of Surveyors (FIG), American Congress on Surveying and Mapping (ACSM), American Public Works Association (APWA), Washington Council of County Surveyors (WCCS), Lean Construction Institute (LCI), and the state conferences for Washington, Oregon, Utah, Montana, Idaho, Alaska, and Arizona. Brian is president of the North Puget Sound Chapter of LSAW. He has been featured in both POB and Professional Surveyor Magazines.

Technology is the key to success in almost every profession. Technology drives production quantity and quality. The history of surveying and measurement tools and technology is as old as civilization itself. From the earliest archeoastronomy to the measurement of the speed of light, the technology used by surveyors has driven the rise and development of science in America and around the world. The National Geodetic Survey, for example, established in 1807 by Thomas Jefferson, was our nation's first civilian scientific agency – The Survey of the Coast. This agency later reorganized into the creation of the National Oceanic and Atmospheric Administration (NOAA), a worldwide leader in science, service, and stewardship.

Surveyors today use some of the most advanced technology, some of the coolest tools. These technologies are so robust that The U.S. Department of Labor has designated Geospatial Technology as one of the three "mega-technologies" of the 21st century. This 'mega-technology' is evolving at a rapid pace. The entire nature and structure of the industry, profession, and constituent disciplines have changed to such an extent that Geospatial Technology is practically un-definable in terms of the practitioner of ten or even five years ago. From the earliest sighting and measurement instruments to the latest electromagnetic technologies measuring at the speed of light, this presentation will explore the comprehensive legacy of professional Land Surveying tools and technologies.

The purpose of this presentation is to study the achievements of surveyors, the evolution of knowledge and the methodology of measuring, and the evolution of surveying instrumentation.

CAMP REGISTRATION FORM

Registration deadline is January 3, 2012

Fax, mail, or e-mail this form and Purchase Orders to Tom Gray at;

360-249-2153

tgray@co.grays-harbor.wa.us

Grays Harbor County DPW

c/o Tom Gray

100 W. Broadway, Ste 31

Montesano, WA 98563

Name_____

Agency_____

Address_____

_____

Phone No._____

E-mail_____

Full Registration includes accommodations for one or two persons on Tuesday, Wednesday and Thursday night

Check all that apply:	Amount
Full Registration ($525.00)	_____
Tuesday 17th only ($160)	_____
Wednesday 18th ($160)	_____
Thursday 19th ($160)	_____
Friday 20st ($85)	_____

Daily room rates accommodate one or two persons

Monday 16th ($70) _____

Tuesday 17th ($70) _____

Wednesday 18th ($70) _____

Thursday 19th ($70) _____

Total enclosed _____

Purchase Order/ Check No. _____

Questions? contact Tom Gray @ 360-249-4222, ext. 445

WCCS Federal Tax ID # 91-1558942

Accommodations

Rooms for Tuesday through Thursday are included with the purchase of a full registration. If you purchase a full registration and wish to have a room for Monday night before the camp, please note such on this form and add $70 to the full registration price (i.e. total $595)

Guests are welcome at survey camp as the registration is good for one or two room occupants.

One-day registrations are welcome. The registration fee for each day is listed to the left. If you wish to reserve a room, the room rate for each day must be added to the single day registration fee. The registration fee for attending a single day event does not include rooms

Meals

All meals are included with full registration, and consist of breakfast, lunch, and dinner Tuesday through Thursday, and breakfast and lunch on Friday. Single day registrations include the meals for that day only. If you have special dietary needs please note such on registration form or contact Tom Gray.

The Washington Council of County Surveyors Presents

2012 WCCS Survey Camp (20th Anniv.)

January 17-20, 2012

WASHINGTON COUNCIL OF COUNTY SURVEYORS

Quality Inn and Conference Center
1700 Canyon Road
Ellensburg, WA

CAMP OBJECTIVES

Survey camp is intended to provide city, county, and state employees with the perspective, knowledge, and tools related to the public practice of land surveying. For the past twenty years Survey Camp has brought surveying professionals together with experts from various fields to share what they know and develop discussions about how to apply these issues in the attendee's everyday work environment and to augment their studies in acquiring licensure. Survey Camp 2012 is intended to benefit all land surveying personnel, from field crews to office survey technicians and managers.

CAMP SCHEDULE

Tuesday, January 17, 2012

7:00-8:00 Breakfast

8:00-10:00 Registration

10:00-12:00 Fennelle Miller, History of Transportation :Scott Williams, Cultural Resources and Regulations: What surveyors need to know

12:00-1:00 Lunch

1:00-5:00 Dave Berto, PLS and Jim McLefresh, Document Research and GPS Projects

5:00-6:00 Geoline

6:00 Dinner Luau Night Kahlua Pork, Mahi Mahi, Maui Ribs

Wednesday January 18, 2012

7:00-8:00 Breakfast

8:00 -12:00 Larry Signani, PLS What you need to know about GPS:NA2011; GEOID12; WSRN; GRAV-D; & OPUS

12:00-1:00 Lunch

1:00-3:00 Denny DeMeyer, PLS 2011 David Thompson Columbia Brigade/Evolution of the Oregon Territory and International Boundary

Wednesday, January 18, 2012 cont.

3:00-5:00 BPA Staff BPA Rights of Way: Retracement Surveys and Principles

5:00-6:00 PPI Group

6:00 Dinner Prime Rib, King Crab, Salmon, Clams, Shrimp

Thursday, January 19, 2012

7:00-8:00 Breakfast

8:00-12:00 Tom Gray, PLS County Right of Way Principles and Descriptions

12:00-1:00 Lunch

1:00-500 Mitch Duryea, PLS Survey Math: Calculations and Applications

5:00-6:00 Kuker-Ranken

6:00 Dinner Fiesta Night Steak Fajitas, Chicken Enchiladas

Friday January 20, 2012

7:00-8:00 Breakfast

8:00 12:00 Brian Blevins, PLS The History of Surveying and Measurement Tools and Technology

12:00-1:00 Lunch / Raffle

1:00-3:00 WCCS Annual Business Meeting

Schedule Notes:

1. Vendor exhibits will immediately follow the afternoon session and your participation is strongly encouraged as they support our organization .
2. Breaks are scheduled generally at 1-2 hour intervals and at the discretion of the instructor. Refreshments provided.
3. All participants are encouraged to stay for lunch on Friday to participate in the raffle.

Washington Council of
County Surveyors'

-PRESIDENTS LIST-

1992 - G. LARRY WILKINSON, - PLS PIERCE COUNTY

1993 - LESLIE C. OLSEN, PLS - THURSTON COUNTY

1994 - BILL J. EPOCH, PLS - DOUGLAS COUNTY

1995 - GENE ZERBY, PLS - GRAYS HARBOR COUNTY

1996 - JOE BOWLES, PLS - WALLA WALLA COUNTY

1997 - BILL MCINTOSH, - PLS KING COUNTY

1998 - RON CURREN, PLS - PEND OREILLE COUNTY

1999 - MONTE MONTEITH, - PLS CLARK COUNTY

2000 - BRYAN THORP, PLS - BENTON COUNTY

2001 – MIKE WADE, PLS - PIERCE COUNTY

2002 – JERRY SIMS, PLS - SPOKANE COUNTY

2003 – JOHN JAMES, PLS - KITSAP COUNTY

2004 – DON DAY, PLS - COWLITZ COUNTY

2005 – LESLIE C. OLSEN, PLS - PIERCE COUNTY

2006 – BILL SLEETH, PLS PIERCE COUNTY

2007 – KEN PAUL, PLS CLARK COUNTY

2008 – KEN PAUL, PLS CLARK COUNTY

2009 – BILL SLEETH, PLS–PIERCE COUNTY

2010 – RANDY HEFT, PLS–THURSTON COUNTY

2011 – JOHN CHRISTENSEN, PLS–FRANKLIN COUNTY

2012 – RON TORRENCE, PLS SNOHOMISH COUNTY