



Northwestern Division Convention

“The Northwest: Where Ham Radio is Growing”



Photo © City of Seaside Visitors Bureau

Seaside Convention Center

Seaside, Oregon

June 2, 3 and 4, 2017

www.seapac.org



Sponsored by the Oregon Tualatin Valley Amateur Radio Club

Co-sponsored by the Clark County Amateur Radio Club

Welcome to SEA-PAC!

Welcome to the 35th Anniversary edition of *SEA-PAC*. What began as the vision for moving a hamfest to an ARRL Convention celebrating Amateur Radio in the Northwestern Division, has become a premier gathering place for hams. Whether you are from the ARRL NW Division, the USA, or an international participant, Welcome!

The theme, "Where Amateur Radio Is Growing" salutes the work of clubs and volunteers in making the Northwestern Division a place where new licensees are increasing...and existing licensees are learning new skills and knowledge to move us forward. In April, 2017, we exceeded 810,000 US licensees.

The *SEA-PAC* Committee, composed of more than two dozen volunteers, works all year to make this a satisfying experience for you. Let us know how we're doing. The Oregon Tualatin Valley Amateur Radio Club has served as the *SEA-PAC* sponsoring club for these years, with the co-sponsorship of Clark County Amateur Radio Club, selected as 2017 Dayton Hamvention "Club of the Year" and the support of many other clubs.

Congratulations to The Radio Club of Tacoma on their Centennial. We salute your achievement.

Whether your interest is in Amateur Radio as a SERVICE or Amateur Radio as a HOBBY predominates...working together we're strongly moving Amateur Radio into a new century. *SEA-PAC* wants to continue at the heart of that progress.



John D. Bucsek, KE7WNB
President
Oregon Tualatin Valley Amateur Radio Club
SEA-PAC Convention Sponsoring Club



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SEA-PAC WELCOMES OUR ARRL GUESTS



Tom Gallagher, NY2RF, is the Chief Executive Officer of the ARRL and the Publisher of QST Magazine, QEX Magazine and the National Contest Journal.

NY2RF first licensed in Bryn Mawr, PA in 1966 as WA3GRF then in Charlotte, NC as N4GRF. He lives in West Palm Beach Florida along the intracoastal waterway (Lake Worth) about one mile from the Atlantic Ocean. The sandy soil has attractive conductivity properties and of course the salt water helps propagation.

In beach communities, antennas are a challenge, and I try to keep a low profile even though there are no HOA restrictions. I use a random-length wire tuned with an ICOM AH-4 tuner which feeds 170 feet of multi-directional wire at about 26 feet in height. Its radiation pattern is somewhat unpredictable but it works well to Europe and Latin America. As an alternate, I have a 40-meter Windom at 26 feet. The balun attached to the Windom with 10 feet of ladder line is grounded where it connects with the coax to reduce noise. I am also constructing a beam antenna mast. Working Europe and Latin America DX on HF is my favorite activity. I would like to work Asia when I get a better HF antenna solution. With a recent upgrade to Amateur Extra, I hope to be more active on 80/75/40 meters .



Carl Luetzelschwab, K9LA, has been a radio amateur since 1961. His interests include propagation, DXing, antennas, vintage equipment, and contesting. He served as National Contest Journal (NCJ) editor from 2002 until 2007 and, until 2015 contributed the "Propagation" column to the bi-monthly publication and articles to other Amateur Radio publications. Luetzelschwab received The Bill Orr, W6SAI, Technical Writing Award for 2013 for his article "The Sun and the Ionosphere," which appeared in the March 2013 issue of QST and won the March QST Cover Plaque Award for the same article.

His website offers considerable information on propagation and related subjects. He's been on several DXpeditions and is at the top of the DXCC Honor Roll. Luetzelschwab holds both bachelor's and master's degrees in electrical engineering from Purdue University. He retired in 2013, after 41 years as an RF design engineer. His wife Vicky is AE9YL.

SEA-PAC WELCOMES OUR ARRL GUESTS



James E. (Jim) Fenstermaker, K9JF, was elected an Honorary Vice President of the ARRL at the January 2016 Board Meeting. He is a retired CPA, and was the Northwestern Division Vice-Director and Director for a combined fifteen + years. He served on many ARRL committees including Finance & Administration (as chair), Executive, Programs & Services, and Grassroots/Legislative Action. His task as ARRL 2nd Vice President was to serve as the chairperson of the League's Strategic Planning Working Group whose work was adopted by the ARRL Board in January 2016. Jim also was a member of the HF Band Planning Committee. He continues as a Board member of the ARRL Foundation. He has been an ARRL member for 50 years. An avid contester and DXer with 368 DXCC entities confirmed, Jim is included among those holding #1 DXCC Honor Roll - all current DXCC entities worked and confirmed and recently achieved the DXCC Challenge 2500 award having confirmed over 2,500 band/entities from 160 through 6 meters.

Future SEA-PAC Dates

June 1-3, 2018	June 3-5, 2022
May 31 -June 2, 2019	June 2-4, 2023
June 5-7, 2020	May 31 – June 2, 2024
June 4-6, 2021	May 30 – June 1, 2025

V.E. EXAM SESSION

*Amateur License Exams at Our Savior's Lutheran Church—East Parish Hall
(North and West— across the street from the Convention Center)*

One Session—Saturday at 9 AM

*Pre-registration requested. Walk-ins — Space Available
Text or call John Bucsek at 503.893.6134*

Personal or business information collected as part of this event is not shared or distributed in any way outside of SEA-PAC.

SEA-PAC WELCOMES OUR NWD GUESTS

James (Jim) D. Pace, K7CEX, ARRL Northwestern Division

Director has been an advocate for Amateur Radio for 58 years since getting his first license in 1957. Jim served as an OES, DEC, SEC and ASM in Western Washington, gaining experience and working his way up to Section Manager and Washington State RACES Officer. While working as SM and SRO, Jim worked hard to develop good relationships between Western Washington Amateur Radio and our served agencies, such as: Department of Natural Resources, FEMA Region 10 RF Division, Washington Emergency Management Division, Washington State Patrol and State Guard, and many others including our County Emergency Managers. While serving as SRO, Jim formed an EmComm working group with membership from all three State MARS units, FEMA Region 10, State EMD and ARES, to foster a working arrangement between the organizations. On January 1, 2013, Jim started new chapter in his Ham Radio career, as the Vice Director of the ARRL Northwestern Division. On January 1, 2014, he became the Director of the Northwestern Division. Jim currently not only serves as NW Division Director, but also serves as chair of the ARRL Administration and Finance Committee and as a member of the Legal Defense and Programs Committee. The ARRL Board members also elected Jim to the ARRL Foundation Board, which oversees annual Grants and Scholarships awarded, promoting Amateur Radio and the post-secondary education of Science, Medicine and Engineering.



Bonnie Altus, AB7ZQ, ARRL Northwestern Division Vice-Director,

works as an instructor and department chair for the Health Information Management program at Portland Community College. She has worked in education for 7 years and in the healthcare field for 24 years. Bonnie was first licensed in 1997 while working as a hospital information systems and telecommunications manager. She upgraded to an extra class license during 1998. Bonnie was elected as the Oregon Section Manager in 2006 and served in that position until appointed to complete a term as the Northwestern Division Vice Director in 2014. Prior to serving in ARRL elected positions, she was an ARES Emergency Coordinator and Assistant Emergency Coordinator in Yamhill County and a president of the McMinnville Amateur Radio Club. She has been the net manager and net control for various nets. ARES and other emergency preparedness activities have been her primary interest in ham radio and she is actively involved in ARES and club activities in Yamhill and Polk Counties. She has a B.S. degree in Business Education from Cal State LA and an M.S. degree in Information Management from University of Oregon.



SCHEDULE OF EVENTS

Friday, June 2

Friday Workshop: DIY Pixie, Seaside A/B/C	9:00 AM - 5:00 PM
Friday Workshop: DIY S-Forty-9er, Riverview A/B/C	9:00 AM - 5:00 PM
Friday Workshop: Raspberry Pi, Best Western 414 N Prom..	9:00 AM - 5:00 PM
Friday Workshop: Propagation during Solar Minimum, Shilo Inn Ballroom	9:00 AM - 5:00 PM
Registration Open	11:00 AM - 8:00 PM
Exhibitor/Flea Market Set-Up	11:00 AM - 8:00 PM
Friday Workshops Lunch (Workshop venues)	12:00 Noon
SEA-PAC Special Event - Portable Stations at the beach	7:00 PM

Saturday, June 3

Exhibitor/Flea Market Set-Up	7:30 AM - 9:00 AM
Registration Open	8:00 AM - 4:30 PM
VE Exams (Pre-registered at Lutheran Church)	9:00 AM
Exhibits & Flea Market Open	9:00 AM - 4:30 PM
Snack Bar	9:00 AM - 4:30 PM
Seminars (Convention Center).....	10:00 AM - 5:00 PM
Hourly Prizes	10:00 AM - 3:00 PM
YL Luncheon (Shilo Inn).....	11:30 AM - 12:45 PM
DX Luncheon (Shilo Inn).....	11:30 AM - 12:45 PM
ARRL Forum (Seaside B).....	1:00 PM - 2:00 PM
SEA-PAC Special Prizes Drawing	2:30 PM - 3:00 PM
Pre-Banquet Happy Hour	6:00 PM - 7:00 PM
SEA-PAC Banquet (Convention Center).....	7:00 PM
SEA-PAC Special Event - Lewis & Clark (Seaside High School) ...	6:30 PM - 8:00 PM
Wouff Hong Ceremony (Seaside B/C)	11:30 PM

Sunday, June 4

Registration. Open	8:30 AM - 12:00 Noon
Exhibits & Flea Market Open	9:00 AM - 12:00 Noon
Hourly Prizes	9:00 AM - 11:00 AM
Seminars (Convention Center)	10:00 AM - 12:00 Noon
Snack Bar	9:30 AM - 2:00 PM
SEA-PAC Major Prizes Drawing (Convention Center)	1:00 PM - 2:00 PM
SEA-PAC Convention Closes	2:00 PM

BANQUET

SEA-PAC Entertainment

“Woodlander”

The trio of musicians known as WOODLANDER have been entertaining their audiences with an upbeat blend of folk, bluegrass, Cajun, swing, and reggae since the 1970s. The amateur radio member of WOODLANDER is Will Hobbs W170. You'll hear him on



guitar, mandolin, harmonica, and flute. He is the author of many of their songs and arrangements, holding local and national awards for song-writing and lyrics. Will is joined by Kerry Canfield on upright bass and accordion and Paul Douglas on guitar, fiddle, and harmonica.



7th AREA QSL BUREAU

A VOLUNTEER SERVICE FOR AMATEURS WORLD WIDE

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SEA-PAC Pocket Lanyard

The SEA-PAC Lanyard can be purchased for only \$5 at the Extra Ticket booth in the lobby.

This timeless lanyard has a clear pocket in the front for your name badge, a zippered pocket on the top to hold lunch, banquet, or raffle tickets and other small items, and a clear pocket on the back to hold the free pocket book of SEA-PAC activities for reference while attending the convention.

Previous year purchasers that bring their lanyards can pick up a replacement pocket booklet at the extra prize ticket table in the Foyer.



Banquet Prizes

ARRL \$50 prize certificate

Netflix one-year subscription

Yaesu VX-6R 144/220/440 Handheld

C.A.R.S. Country Store

As a service to flea market buyers the C.A.R.S. (Cascade Amateur Radio Society) club provides a testing center for equipment. A power supply, voltmeter, service monitor, oscilloscope and frequency counter are a part of their testing equipment. Check out what you are considering buying. Neither C.A.R.S. nor SEA-PAC can accept responsibility for the condition of any equipment nor can be held responsible for any damage as a result of use of test gear. As an additional service to the amateur radio community, C.A.R.S. also provides a Country Store where rigs and other equipment will be displayed for sale. Have a piece of gear to sell? As an additional service, we will consign it for you at a reasonable charge. Remember, your boat anchor is someone else's dream machine!

EXHIBITORS

Alpha Antenna
Amateur Radio Relay Group (ARRG)
ARCOM Controllers
Arlan Communications
ARRL 7th QSL Bureau
Bridgecom Systems
Buddipole
Cat Tails Design
Data Environment
Dayton Amateur Radio Assoc
DC Power
E&M Embroidery (Ham Gear)
Elecraft
Elk Antennas / Day Saver
Flex Radio Systems
FUE Enterprises
Ham Radio Outlet
Hi-Tech Liquidators
Hip Ham Shirts
ICOM America
J. Poles
JVC Kenwood USA
Martronics

MFJ Enterprises
NSI Radio
NW Digital Radio
Oregon ACES
Oregon Civil Air Patrol
Pacific Amateur Radio Guild
Precise RF
QRPworks, LLC
Quarter Century Wireless Assoc
Rescue Tape NW
RT Systems
Seaside Tsunami ARS
SteppIR
Sunset Empire Amateur Radio Club
Suzie Solar
Thrive
Tigertronics
Ventenna
Western Case Company
Wired Communications
Yaesu USA
Young Ladies Radio League (YLRL)

Due to publication deadlines we apologize for any changes or omissions.

PRIZE DONORS

Prizes Donated By

Alpha Antennas
 ARCOM Controllers
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 Buddipole Antennas
 Cat Tails Design
 DC Power, LLC
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 Flex Radio Systems
 Fue Enterprises
 Ham Gear
 Ham Radio Outlet
 Hip Ham Shirts
 Hi-Tech Liquidators
 ICOM America
 Kenwood USA
 Martronics
 NW Digital Radio
 Precise RF
 Rescue Tape N/W
 RT Systems
 Suzie Solar
 Thrive
 Tigertronics
 Ventenna
 Western Case
 West Mountain Radio
 Wired Communications
 Yaesu USA

Merchants Donating Prizes

Seaside, OR

Bigfoot's Steak House
 Camp 18 Restaurant & Gift Shop
 Dooger's Seafood & Grill
 Ebb-Tide Ocean Front Inn
 High-Tide Ocean Front Inn
 Inn at Seaside
 Motel 6 at Seaside
 Norma's Seafood & Steak
 Pig 'N Pancake
 Portland Fudge
 Sam's Seaside Café
 Seaside Chamber of Commerce
 Seaside Helicopters
 Pizza Harbor

Nehalem, OR

Nehalem Bay Winery

Vancouver, WA

Pulse Electronics (Larson Antenna)



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 (SEA-PAC)



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 on Instagram!
 (seapac_hamradio)

*Please express your appreciation to the many dedicated volunteers, vendors,
 and flea-marketers that made SEA-PAC 2017 possible.
 The SEA-PAC committees are listed on page 42.*

SEA-PAC Prizes

Major Prizes

ARRL \$50 prize certificate
Heil PSE-6 Pro Set Elite 6 Headset
Icom IC-718 160-10 Meter Transceiver
Icom IC-7300 HF + 50MHz Station Transceiver
Kenwood TH-D74A 144/220/440 APRS+DSTAR Handheld
Logitech Revue with Google TV
MFJ-226 1-230MHz Graphic Vector Network Antenna Analyzer
RigBlaster / West Mountain Radio
RT Systems Radio Programming Software Gift Certificate (2)
Tigertronics Signalink USB
Toshiba 49" 4K Ultra HD Television
Wouxun KG-UV9D-Plus 144/440 Handheld
Yaesu FT-2DR 144/440 Fusion Handheld
Yaesu FT-70DR 144/440 Fusion Handheld
Yaesu FTM-100DR 144/440 Fusion Mobile Transceiver
Yaesu FTM-400XDR 144/440 Fusion Mobile with GPS

Major Prizes

Sunday 1-2pm Need not be present

Kenwood TH-K20A 144 Handheld
Yaesu FT-2DR 144/440 Fusion Handheld

Early Bird

Need not be present

Registrations received by April 15, 2017

Icom IC-T70A-HD-15 144/440 Handheld
Icom IC-V80-Sport 144 Handheld
Kenwood TH-D72A 144/440 APRS Handheld
Kenwood TM-281A 144 Mobile Transceiver
Yaesu FT-8900R 29/50/144/440 Mobile Transceiver

Each hourly drawing will include a BaoFeng UV-5R Plus 144/440 Hand-Held.
Hourly prizes are posted for two hours on stage and in the lobby.

ALL PRIZES SUBJECT TO CHANGE

Monte L. Simpson, AF7PQ
Western Washington Section Manager

Monte Simpson, AF7PQ, was first licensed as a Technician in 1992 as KB7RID. He then upgraded in 2007 to General and to Extra in April 2015. For over 20 years he has been an active operator, promoting Amateur Radio and the ARRL at every opportunity. He served as an AEC, EC, DEC, ASEC, OO and ASM in Western Washington. He is member of the VHF/UHF Century Club (VUCC). As Section Manager, he works hard to strengthen Amateur Radio in Western Washington. The ARES program is head and shoulders above other programs in the country. Our OO program is the most active in the nation, logging several hundred hours of monitoring each month. The Technical Specialist program has transformed into a Technical Assistance program, for the benefit of all Hams - new or old. He believes the health of the ARRL and continued growth are based on the key components of our Affiliated Clubs and the VE program. We need to attract young energetic hams into our ranks. ARRL is truly an organization of diversity in many aspects.



Monte, and his wife June of 48 years, have 2 children: Tiffany, who lives in Bremerton and Lamont who lives in Dallas, TX. He is employed full time by the State of Washington where he is a public safety communications manager. For the past six years, he has served in the Washington State Guard.

2017 is ...
the ARRL's 103rd year,
SEA-PAC's 35th year,
and the YLRL's 78th year

DX Luncheon Speaker

Mike Flowers, K6MKF

“A Newbie Goes on his first DXpedition”

Mike Flowers, K6MKF, has been a licensed ham since 1968. He is active on-the-air and in amateur radio organizations. He recently completed two terms as president of the Northern California DX Club (NCDXC).



Mike's first DXpedition was as a team member with the 3D2C Conway Reef DXpedition in 2012.

The following year, at the International DX Convention in Visalia he was awarded the 2013 NCDXC DXer of the Year Award. Mike will tell us what it was like to be the “newbie” on his first DXpedition.

YL Luncheon Speaker

Linda Ford, AA6MR

“A Year In China”



First licensed in May of 1988, she didn't have a radio for a while so she just kept taking tests and by October had her extra class license. By then she had acquired a radio. She was active in the San Fernando Valley Amateur Radio Club and served a term as president. Was also in charge of test sessions given by the club each month.

In 1994, she had the opportunity to teach English Literature for a year in Jinan, China. This was an incredible experience and was there for the formation of the Jinan Amateur Radio Club. When she returned from China,

she lived in Davis, California and was Vice President of the club there.

She has been a member of an ARES group ever since she received her first license and has been active in County Hunting and DXing. Other hobbies include backpacking and hiking, genealogy and reading.

Mark Tharp, KB7HDX
Eastern Washington Section Manager



Mark Tharp, KB7HDX, has been licensed since 1989 and holds an Amateur Extra Class license. He is a Life Member of the ARRL and has held numerous ARRL volunteer positions. Mark has held Section level positions of EC, DEC, OOC, ASM and AD.

Mark's other amateur radio activities include, contesting, repeater building, hamfests', VE testing, and being an Elmer. He feels it is important for amateur operators to be involved by promoting and participating in not only League activities but amateur radio as a whole.

"73 and Welcome to SEA-PAC."



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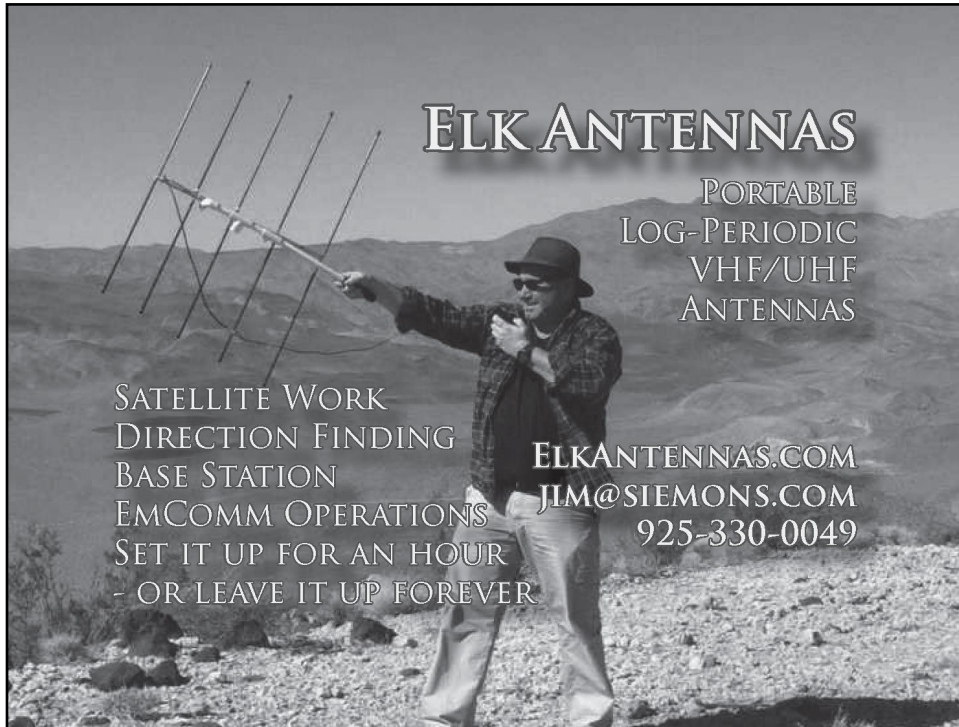


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SEA-PAC Special Events

An evening with Lewis & Clark

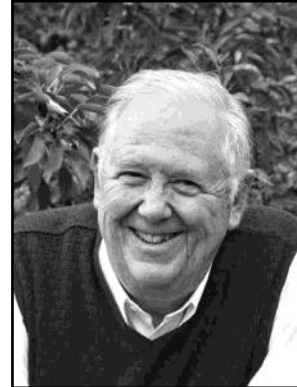
Are you in Seaside Saturday evening and not planning to attend the SEA-PAC Banquet? We invite you and your family to attend a talk on Lewis and Clark while at the north Oregon coast area. The Corps of Discovery stayed in the area from December 1805 to February 1806 before they headed back east. Why did Lewis and Clark choose the area? What did they do at the north coast? What were conditions like for the Corps? How much salt did the Corps boil from seawater? Learn some American history in a fun presentation that brings history alive.

The program will be at Seaside High School from 6:30 – 8:00 PM Saturday evening. The school is north of the Convention Center at 1901 North Holladay Drive (you can see the school west of US 101). Park on the east side of the school and enter the school. The program will be in the cafeteria. Seating limited to 250. See you there!

Presenter: Tom Wilson, a retired elementary school teacher, began working at Lewis and Clark National Historical Park seasonally more than 20 years ago, giving talks, demonstrations, and presenting programs to students and visitors. Tom recently retired from the Park Service this past year. During his time with the park, he also participated in the park's living history programs and has portrayed Corps members at events such as The Salt Makers Return, Clark's Camp and Wintering Over. He has portrayed expedition members Private Thomas Howard, Captain William Clark, and salt maker Private William Bratton. As William Bratton, Wilson has spent multiple weekends in character, boiling water, making salt and living on the beach. He has portrayed Wm Clark in documentaries such as OPB's "Searching for York" and "A Clatsop Winter Story", as well as having been featured on Oregon Field Guide and Grant's Getaways. Tom has done many tours along the Lewis and Clark Trail as well as numerous talks and presentations throughout the Northwest. There is no charge for this event.

John Core, KX7YT
Oregon Section Manager

John was first licensed in 1970 as a Novice and has, over the years, advanced to an Extra Class Amateur as KX7YT. His work as an international consultant took him to Asia where he was licensed in Bangladesh and India operating on the HF bands during 2000 to 2008. He has been active in Oregon ARES since 2001 serving in various county and state level positions. His leisure time interests are in HF contesting from his primary station location high in the Cascade foothills east of Eugene. John lives in Portland with his wife Christine, has three daughters and six grandchildren.



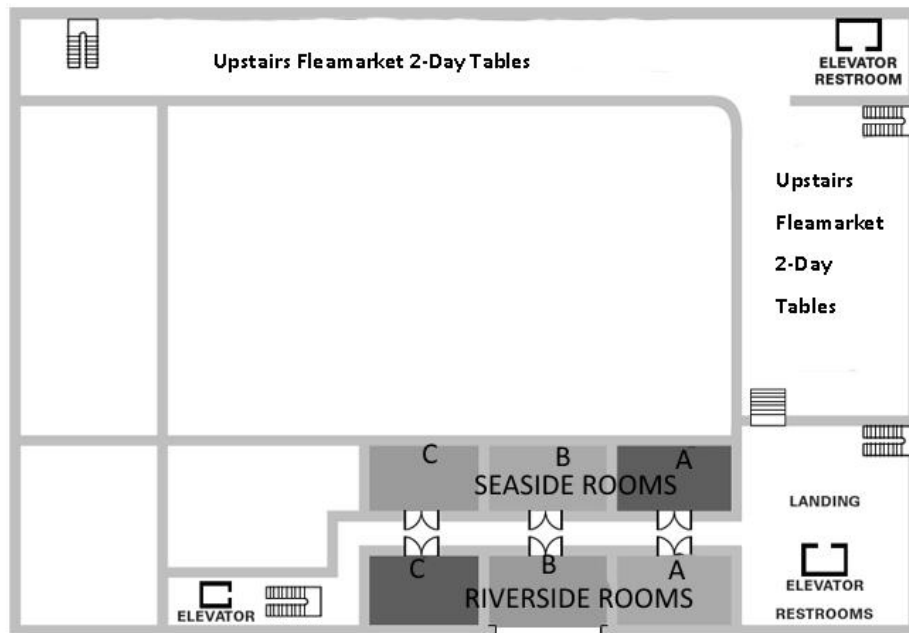
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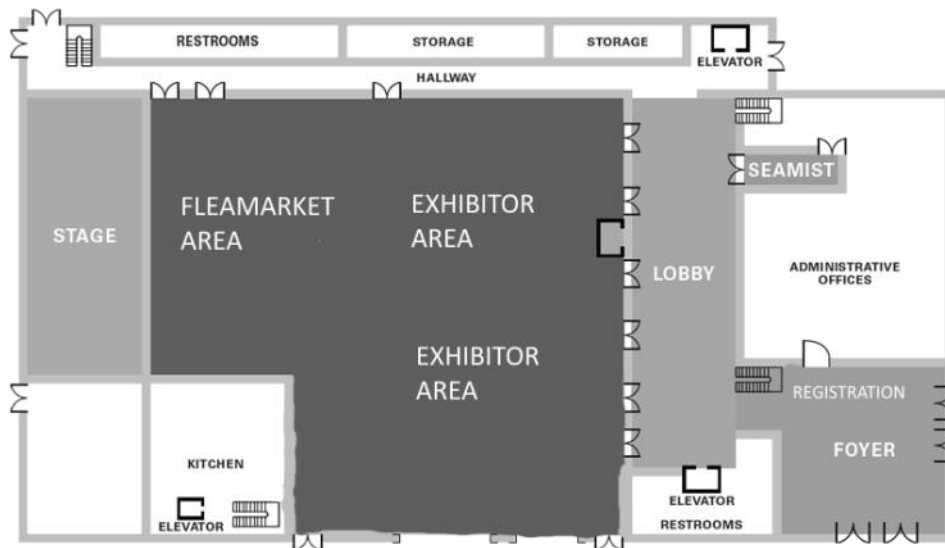
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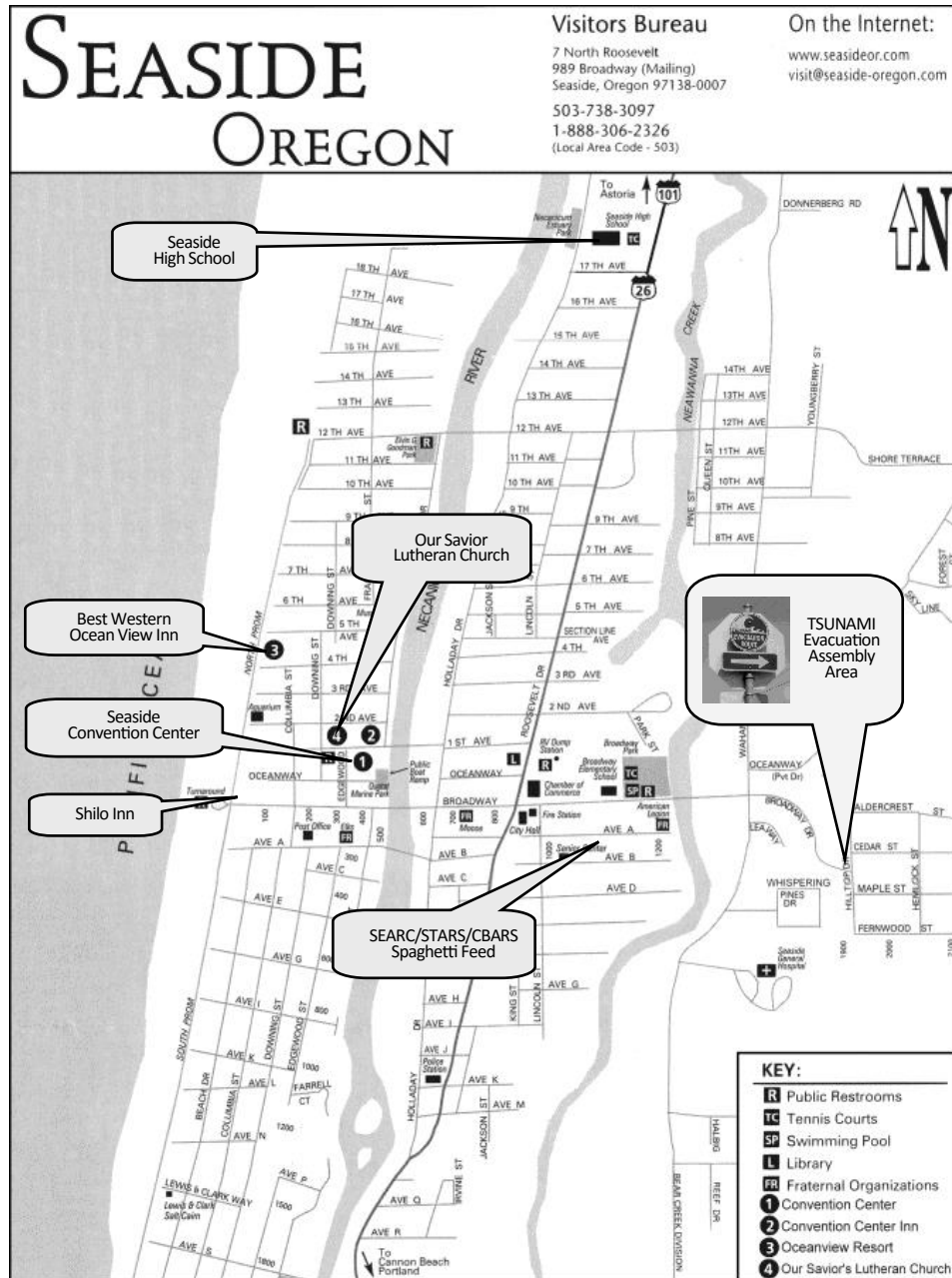


UPSTAIRS



DOWNSTAIRS

SEA-PAC Activity Locations



SEMINAR SCHEDULE

See Pages 24 & 25 for Seminar Synopsis

(use row number THEN column letter (e.g. "3A"))

Day	Period	Row	A	B
			Riverview A	Riverview B
Sat	1000-1050	1	Build a Volunteer Examiner Team (AE7TD)	Summits On The Air: In your hiking boots or in your bathrobe! (NO6E)
Sat	1100-1150	2		Grid hunting with 6 meters (K7BV)
Sat	1200-1250	3	Build an Antenna (WB6BYU)	Disaster Preparedness (K7MEX)
Sat	1315-1415	4		Antennas that Really Work -and Really Last! (K7JA)
Sat	1510-1600	5	Using N1MM Contest Logging Software Effectively-Beginner (W7VO)	EYEWARN: What Happened and Where? (NO7DE)
Sat	1610-1700	6	Using N1MM Contest Logging Software Effectively-Advanced (W7VO)	Amazing QRP Portable from the National Parks or Anywhere (KF0UR)
Sun	1000-1050	7	Kit Building Completion (KL7BB)	Portable Operations with Solar Power: Are You Ready? (KB7RHI)
Sun	1100-1150	8		

SEMINAR SCHEDULE

C	D	E	F
Riverview C	Seamist Room	Seaside A	Seaside B/C
Digital Mobile Radio: A Beginners Guide to DMR (Steve)	What Is the Best Antenna? (KL7WM)	An Atypical Ham's Journey in Ham Radio (KB7UUE)	There's an App for That! (KA7JEV)
UHF SDR Transceiver (W7FU)	Youth and Radio (K7APS)	PSK31 and FLDigi for Digital Fun (K7AGE)	ARRL Forum: Into the 21st Century (K7CEX/AB7ZQ)
How Important are Receiver Performance Criteria in Software Defined Radio Era (W7VP/ W7CF/ VA7OJ)	Yaesu Fusion and C4FM (N9UPC)	Get on the Air and Use Your License (N7QMT)	
MDSR RF-Seismograph; How to Work and Measure the Solar Eclipse (VE7DXW)	Oregon Section Cabinet (KX7YT)	Why Upgrade to General? (W7UUU)	VHF/UHF Mountain Topping for SOTA and Contests (N7UN)
Digital Communication Theory (AF7GY)	QWCA Forum (KG7BF)	FCC Rules and Legal Issues (K2ASP)	Building College-level Ham Clubs (NY2RF)
Testing Vacuum Tubes with a Tektronix Curve Tracer (W7PF)	YL Forum (AC7UH)	Digital Mobile Radio (KE7ZMA)	SDR Controlled by a Raspberry Pi (KG0T)
Community Emergency Response Teams: What are they? Why should you care to get involved? (NW7T)	ARRL Division Leadership Meeting (K7CEX)	New Ham "Getting Started" on VHF/UHF (N7QMT)	Digital Mobile Radio (DMR) in Amateur Radio - An overview of DMR and PNW DMR update (N7ER)
		New Ham "Getting Started" on HF (N7QMT)	How to Succeed on 10m (W7CAR)

SEMINAR SUMMARIES

1A	Volunteer Examiners administer tests that allow new hams to earn their technician license and hams to advance. Learn how to build your own team or improve your current team.
1B	Put on your hiking boots, climb mountains, and play radio. Or you can chase SOTA stations in your bathrobe. Learn the joys of each while having fun.
1C	Learn the basics of SDRs and how they have evolved from simple dongles. Talk also covers variety of devices and their performance, and applications.
1D	The eternal ham question: Which antenna is best for me? Learn some questions to ask yourself and discover the answers.
1E	Learn how one ham's evolving desire to serve his community drove upgrades and learning new skills.
1F	Ever wondered if you can enhance your ham fun with an app? Come learn about some of the apps that are available and increase your success and fun.
2B	Learn how to join the fun searching for grid square hunting on 6 meters. Even when the bands are fairly dead you can still have success and fun.
2C	Learn about a project to build an SDR transceiver for VHF/UHF and microwave frequencies.
2D	Youth have many choices for activities. Come discuss ways to introduce young people to the magic of radio.
2E	PSK-31 is the most popular digital mode being used on the HF bands today. A PC, soundcard interface, software and a radio is all that is needed.
2F	Meet Tom Gallagher, ARRL CEO, Jim Pace, NW Division Director, Bonnie Altus, NW Division Vice Director, and Section Managers. Ask questions, learn what is coming in amateur radio.
3A	This is a hands-on workshop to build your own antenna. Purchase a 2-meter antenna kit at the ticket desk and build it upstairs.
3B	Seminar focuses on how you can prepare for the "Big One" and surviving the 1-3 months without power and 1-12 months with water or sewer services that are projected by FEMA.
3C	Learn how receiver performance affects software defined radio design. A key concept discussed is "Never let the perfect be the enemy of the good."
3D	Yaesu Fusion radios provide the option to explore digital radio and still use analog voice modes. Learn some things that are coming.
3E	Now that you have your license, get on the air! Learn basic techniques, how to set up your VHF/UHF radio, and how to get on the HF bands.
4B	Antennas are one aspect of a modern ham station that involve hands-on work. There are lots of "best practices" and "tricks of the trade" to keep them working.
4C	Learn how to use the MDSR RF-Seismograph to measure RF phenomena. See activity across the bands in near real time.
4E	The HF bands offer interesting opportunities to learn of far away places, make new friends, and gain a stronger sense of geography. Learn other reasons to upgrade, too.

SEMINAR SUMMARIES

4F	Mountain top radio operation offers great scenery and fun operating opportunities. Learn how you can join the fun, either from home or atop a nearby mountain.
5A	Beginner Level—Many contesters use N1MM software to record their QSOs. Learn why, and how to use this amazing software. It can make your contesting fun, even if you only "dabble" with contests.
5B	EYEWARN offers a simple method to collect disaster information from a small or large area quickly. Information can be shared with emergency managers and others. Learn how to apply it in your area.
5C	Discuss the progression from analog modulation to digital constellations with varying orders of modulation from BPSK to 256-APSK. Learn about possible new modes.
5E	Discuss aspects of the FCC rules in a Q&A format.
5F	Learn about Tom Gallagher's college-level ham club initiative and other topics.
6A	Advanced level—Many contesters use N1MM software to record their QSOs. Learn why, and how to use this amazing software. It can make your contesting fun, even if you only "dabble" with contests.
6B	Presentation will show how easy it is to go QRP portable with a simple, lightweight setup, and achieve great results. Learn what to bring, and how to succeed.
6C	Learn how to create a curve tracer to test tubes and semiconductors using a Tektronix Semiconductor Curve Tracer and an add-on board.
6D	Forum to discuss items of interest to YL hams.
6E	Seminar will cover what DMR is, how it works, how it is different than other digital modes such as D-Star and Fusion, and a little about equipment.
6F	Learn how you can control a software-defined radio with a Raspberry Pi computer. Also learn more about SDR.
7A	Need more time to complete your kit from the Friday workshops? The room is set up for you.
7B	Seminar will cover solar panel use, charge controllers, battery types and how to charge. Everything to run a station off grid.
7C	Community Emergency Response Teams (CERT) help neighbors prepare for disasters. Learn why you are needed, and how to get involved.
7E	Discussion on how to get started with your VHF and UHF radio. Learn how to get over mike fright and join the fun, and enhance your station for better success.
7F	Gain a basic introduction to the DMR protocol, how the repeaters work and are linked together, the repeater sites, some of the radios available, and general usage guidelines and limitations.
8E	New to HF? Join a discussion on how to get started on a shoestring and gradually upgrade. Learn how to succeed.
8F	10M can go from "dead" to really alive in a short time. Learn what you need to have fun on this magic and fickle band.

Banquet Master of Ceremonies: Everett Curry, W6ABM



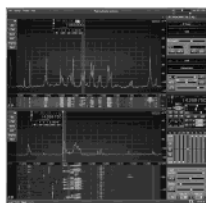
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Edward Stuckey, AI7H Idaho Section Manager

Ed Stuckey, AI7H, was originally licensed as KNØINT in 1957. During his working career, he was a Naval officer for six years, then an industrial engineer and project manager for Nestlé USA for 33 years, principally located in the Los Angeles area. In 2004, Ed and YL Renee moved to Idaho and they love it. Ed was elected the Idaho ARRL Section Manager in 2008 and spends oodles of time doing all the things that a SM does. Recent special attention has been focused on strengthening the emergency communications organization in the state. While not SM'ing, he is a local Elmer, getting two or three new hams established each year and an avid home-brewer (of radio stuff), particularly interested in antenna and transmission line installation and safety. Operating activities include low-band DXing (especially 160 Meters), NTS nets, occasional contesting, and generally roaming the bands looking for a casual QSO, mostly on CW.



SEA-PAC Feedback

We appreciate feedback on your experience at SEA-PAC. To share it with us, send us an email with your comments to:

suggestions@seapac.org

Thank you for attending SEA-PAC 2017 and thank you in advance for taking the time to help us make SEA-PAC 2018 an even better experience!



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Future SEA-PAC convention events

2018—SEA-PAC CW Proficiency Event
Plan to attend!

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Civil Air Patrol (CAP) Communication Vehicle



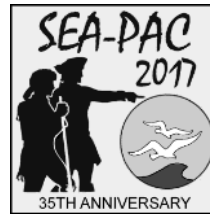
One of the Oregon CAP Wing's seven 4x4 communications and incident command vehicles will be on display at *SEA-PAC* across the street from the Convention Center.



SEA-PAC Pin Contest Winners



John Bucsek, KE7WNB, became licensed as a Technician in October 2008 and upgraded to extra two weeks later. Originally from New Jersey, he moved to the Portland area in 1995 after spending a few years in Orlando, FL.



John is Vice-President of OTVARC, and the current chairman of the SEA-PAC committee. He is also active in ARES and is the VE liaison for the OTVARC VE team. John enjoys participating in nets, and working HF using phone and digital modes.

He met his wife Candice, KF7WPQ, a Portland native, through some friends. He easily convinced her to get licensed in 2012 after a camping trip to an area without cell coverage. She has since upgraded to General. She is a member of OTVARC and the local ARES group. She enjoys talking on the occasional VHF net and helping with field day.

Sponsor Lodging



SEA-PAC Special Events

Wouff Hong Ceremony

Come join the ARRL Royal Order of the Wouff Hong during your SEA-PAC visit at the Seaside Convention Center. Gather in the Convention Center lobby, Saturday Night, June 3, 2017 at 11:30 PM.

Note: You must be a licensed amateur radio operator and a member of the American Radio Relay League. Not a member? Visit the ARRL booth during daytime hours in the Convention Center Lobby.

The Wouff Hong was discovered by "T.O.M.", later identified as Hiram Percy Maxim (aka The Old Man). Hiram co-founded the American Radio Relay League and served as the first President. According to legend, "T.O.M." heard the Wouff Hong used on an operator who exhibited advanced "liddish" operating behavior (translated: really poor operating methods and practices). Intrigued, T.O.M. investigated further and discovered a live specimen of the Wouff Hong. He presented same at an ARRL board meeting. Board members voted to frame the Wouff Hong and display it at League Headquarters so it was available for use on short notice. Poor operators blanch at the thought of seeing a Wouff Hong and usually improve their operating behavior into acceptable ranges. We invite you to attend this rare ceremony in our area during your SEA-PAC visit. There is no charge, but we ask that you identify your desire to attend when you register, or notify people at the registration desk of your intent so we have enough seats for those who desire to attend. Attendance limited to 100.



SEA-PAC Special Events

Portable Stations at the Beach

For those of you in Seaside Friday evening, we invite you down to the beach west of the Shilo. Some hams will have portable stations set up including a 160 meter antenna suspended from a sled kite. If you have a portable station, bring it along and test the salt water amplifier effect. Meet other hams and families, and enjoy the sunset. We'll save some sand for you.

Ray Hollenbeck, KL1IL Alaska Section Manager



Ray A. Hollenbeck, KL1IL, was originally licensed in May 2002 as KL1IL and has kept the same call sign. Ray has been a member of both the Anchorage Amateur Radio Club and the Matanuska Amateur Radio Association and has worked communication events with both groups. Ray usually works over 20 events a year and has been active as an Emergency Coordinator for the City of Wasilla for several years now. Ray spent 18 years in the United States Army holding Infantry, Signal, Finance and Criminal Investigation positions during his years of service. Ray retired from the State of Alaska in 2002.

Ray is currently volunteering with the Matanuska-Susitna Borough Local Emergency Planning Committee as the Amateur Radio Representative. Ray has also been active in the local American Legion Post for the last 3 years.

Multnomah County ARES Trailer

MCARES created a plan to acquire and equip a standard 7x12 cargo trailer for use as a portable command station. Fundraising raised roughly \$35,000 in cash and equipment donations. The fundraising campaign was scheduled for November 2014 through January of 2015 and they raised roughly \$13,000 and was approved for a \$17,000 FEMA grant. From November 2014



through March 2016 ARES members and supporters put in close to 2000 hours of volunteer time in design, coordination and construction.

MCARES successfully completed the Trailer Project in March of 2016. A brief listing of the capabilities include: Five VHF/UHF radios, two all mode radios, dual propane 3000w generators with 2-3 days of fuel, battery backup for key systems, 24-36 hours of runtime, 150w solar battery maintenance system, PACTOR, packet and soundcard modes, dual wide-screen displays, 4800lb loaded weight, multiple HF and VHF antenna and mast systems, on-board spectrum analyzer, on board air conditioning and heating, plus room for four operator positions and up to 5-10 visitors (depending on age).

Amateur Radio Demonstration Station Ron O'Connor, KD7VIK



The Oregon Tualatin Valley Amateur Radio Club (OTVARC) will operate an amateur radio demonstration station, W7OTV, on Saturday, June 6th, from 9:00 am to 4:00 pm from the club's communication trailer. The station will be located near the front entrance at the Seaside Convention Center.

Amateur Radio Operators attending *SEA-PAC* are welcome to stop in and make a few contacts – or just come by for an eyeball QSO. Non-hams are welcome to observe – and operate – the station with the assistance of an experienced amateur licensee.

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Tsunamis

Coastal areas along the Pacific Ocean sometimes experience earthquakes and the resulting tsunami waves. If you feel an earthquake:

- Drop, cover, and hold
- Move immediately inland to higher ground
- Do NOT wait for an official warning

From the Convention Center, walk EAST on Broadway about $\frac{3}{4}$ mile up the hill. Leave your car and walk because you will pass the folks stuck in traffic jams.

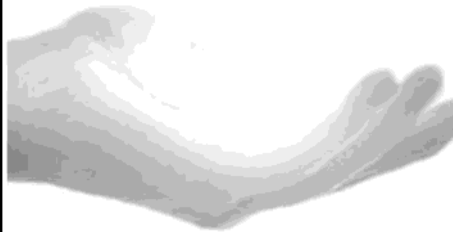
From Seaside High School, walk NORTH to 24th, turn right onto Lewis and Clark Road and continue up hill.

A local earthquake (along the Cascadia Fault Zone) may be your only warning. You likely have less than 15 minutes to reach higher ground. More distant earthquakes will not give the shake warning, so sirens will sound for 3 minutes at intervals.

We do not expect an earthquake or tsunami during your visit, but advance planning helps you prepare for the unexpected. See map on page 21.

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SEA-PAC Flea Market

Please take time to visit the numerous “flea-marketeers” who brought ham treasures galore to share with others. Their excess might be just the thing you need for a project! Flea Market sellers may wish to fill out a “Yes” card to reserve your table for next year, as long as you pay before we sell out. The Fleamarket coordinators will be passing these cards out to the tables during the event. Please return the card to the Registration Desk before you leave. We plan to open next year’s registration on the web on February 15, but please check the *SEA-PAC* web page periodically to verify the opening date for 2018 Flea Market table Reservations & Payment.



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Mickley/Berg Memorial Scholarship Recipients

Joseph L. Boyd Jr., KG7ULU

As long as I can remember I have been involved with volunteer activities where amateur radio has been used. I have provided support in the Multiple Sclerosis Society 150 mile bike ride (known as the MS150). I have actively been involved with the OTVARC "SEA-PAC" Convention, working with the Exhibitors Hospitality.

My father has worked on radios most of his life and got me interested in Amateur radio. At the age of 13 I joined Civil Air Patrol (Air Force Auxiliary) where I received my radio operators permit and became active in radio communications. I then expanded my interest in radio communications and studied for my Amateur license.

While in C.A.P., I started participating in a program called CyberPatriot. This is a national competition where your team competes against other teams in the same age category to find as many problems in Virtual multiple computer platforms in a set amount of time. This got me interested in my field of study which is currently Cyber Intelligence and Security. I am earning a Bachelor's Degree of Science in this field at Embry-Riddle Aeronautical University. I am also active in the Air Force Reserve Officer Training Corps (ROTC) and hope to start my career in the Air Force.



Mitch Wagner, KG7WTQ



As a sophomore in high school in 2014, I found my passion for innovation through my high school's science team and underwater robotics competitions (2014-2016) which led me to explore fields related to engineering. The following year, as a junior in 2015, I narrowed my passion down to robotics, prompting me to pursue a degree in Electrical Engineering in the near future.

During my senior year in the Fall of 2015, my AP Physics class earned HAM Radio Licenses and practiced finding transmitters with various devices (a sport known as Radio Direction Finding) in Stewart State Park, Oregon. In the following Spring of 2016, I competed again in the regional underwater robotics competition (Marine Advanced Technology Education) in the state of Oregon and placed 2nd in the Ranger Division. During this time, I committed to George Fox University in Newberg, Oregon, to attain a degree in Electrical Engineering. During my first year at the university, I completed challenging classes such as Calculus I and II, Physics with Calculus, Chemistry, and two semesters of Engineering Principles where I would design, fabricate, and operate an Oscillating Air Engine and prototype a product within the realm of Kitchen Automation. I will be a sophomore at George Fox University in the Fall of 2017.

Convention Meeting Schedule

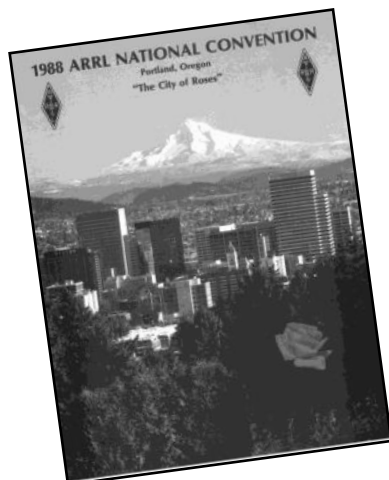
Saturday

1200-1300+	Traffic Handlers Meeting	Evergreen Masonic Lodge, 201 N Holladay
1315-1415	Oregon Section Cabinet	Convention Ctr — Seamist Room
1510-1600	QCWA Forum	Convention Ctr — Seamist Room
1610-1700	YL Forum	Convention Ctr — Seamist Room

Sunday

1000-1200	ARRL NW Division Leadership Meeting	Convention Ctr — Seamist Room
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SEA-PAC Through the Years



George Forsyth, AA7GS Montana Section Manager



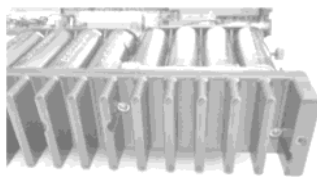
Licensed nearly 30 years, George is an Extra Class licensee. He has committed himself to build the Montana Section into a vibrant community where everyone is involved and recognized.

An ARRL Life Member with 27 years as a Volunteer Examiner. He served as President (five terms) of the Great Falls Area Amateur Radio club and Director of the Glacier/Waterton Hamfest.

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Aloha, Oregon 97007-0963

SEA-PAC COMMITTEES

<p><u>CHAIRMAN</u> <i>John Bucsek, KE7WNB</i></p> <p><u>VICE-CHAIRMAN</u> <i>Delvin Bunton, N7QMT</i></p> <p><u>OTVARC LIAISON</u> <i>Everett Curry, W6ABM</i> <i>Herb Hirst, K7HLH</i></p> <p><u>ADMINISTRATION</u> <i>Gary Takis, K7GJT</i> <i>Everett Curry, W6ABM</i> <i>Wayne Schuler, AI9Q</i></p> <p><u>ADVERTISING/SALES</u> <i>Mike Hurley, KG7BF</i> <i>Warren Winner, W7JDT</i></p> <p><u>BANQUET & LUNCHEONS</u> <i>Everett Curry, W6ABM</i> <i>Will Hobbs, W17O</i></p> <p><u>EXHIBITORS</u> <i>Warren Winner, W7JDT</i> <i>Mike Hurley, KG7BF</i></p> <p><u>FINANCIAL</u> <i>Jim Schaeffer, KB7ADH</i> <i>Warren Winner, W7JDT</i></p> <p><u>HOSPITALITY</u> <i>Vanessa McCoy, KE7UBB</i> <i>Pat McCoy, KE7UBF</i> <i>Betty Mickley, N7REX</i> <i>Joe Boyd, N7VZS</i> <i>Ann Boyd</i> <i>JJ Boyd, KG7ULU</i> <i>Scott Adams, KB8PRS</i> <i>Tia Adams, KB7TIA</i> <i>Charles Mickley, Jr.</i> <i>Molly Mickley</i> <i>Dominic Moran</i></p> <p><u>WEBSITE</u> <i>Michael Nelson, N7IQM</i> <i>Melissa Nelson, WA7MEL</i> <i>Gary Takis, K7GJT</i></p>	<p><u>PIO</u> <i>Nicole Crosby, N7XBY</i></p> <p><u>PUBLICATIONS</u> <i>Gary Takis, K7GJT</i> <i>Wayne Schuler, AI9Q</i> <i>Everett Curry, W6ABM</i> <i>Warren Winner, W7JDT</i></p> <p><u>PRIZE COMMITTEE</u> <i>Rick Banton, K7RDB</i> <i>Warren Winner, W7JDT</i> <i>Darwin Durr, K7PSD</i> <i>Mel Sutton, KB7PVW</i> <i>Mike Durr, KA7PWZ</i> <i>Jim Schaeffer, KB7ADH</i> <i>Debbie Schaeffer, KG7DZD</i> <i>John Bucsek, KE7WNB</i> <i>Candice Bucsek, KF7WPQ</i> <i>Steve Jackson, KD7ABE</i> <i>Haylee Jackson, KG7MOV</i> <i>Bill Easton, KG7KOS</i> <i>Bob Recny, N8SQT</i> <i>Linda Sutton, KC7YTD</i></p> <p><u>REGISTRATION</u> <i>Melissa Nelson, WA7MEL</i> <i>Michael Nelson, N7IQM</i> <i>Jerry Sheffield, N7THL</i> <i>Candice Bucsek, KF7WPQ</i> <i>Michelle Lee, KI7EJC</i> <i>Marilyn Melhorn, AF7BI</i> <i>Dan Melhorn, KF7BHM</i> <i>Gregory Pitts</i> <i>Dorothy Nelson</i></p> <p><u>SECURITY</u> <i>Bruce Bullis, KG6CI</i> <i>Geoff Apgar, W7JEZ</i></p> <p><u>WORKSHOPS & SEMINARS</u> <i>Delvin Bunton, N7QMT</i> <i>Mary Berg, N7TRW</i> <i>Richard Berney, KE7AOA</i></p> <p><u>SOCIAL MEDIA</u> <i>Nicole Crosby, N7XBY</i></p>	<p><u>PHOTOGRAPHER</u> <i>Luther Brisky, KC7KVL</i></p> <p><u>FLEA MARKET</u> <i>Lynn Hurd, WB7UNU</i> <i>Tom Hill, WA3RMX</i> <i>Dave Wright, N7DWL</i> <i>Geno Gray, K7GY</i> <i>Mike Curtis, N7MSC</i> <i>Pete Mackie, KG7IXU</i> <i>Will Hobbs, W17O</i> <i>John Hartin, N3WIC</i> <i>Ron Zuber, N4RDZ</i> <i>Geana Tyler, KD7GEC</i> <i>Jo Whitney, KA7LJQ</i> <i>Ralph Duchie, K7AWR</i></p> <p><u>SET-UP</u> <i>Michelle Lee, KI7EJC</i> <i>Mike Hurley, KG7BF</i> <i>Warren Winner, W7JDT</i> <i>Kathy McClanahan, N7YBN</i> <i>Rich McClanahan, KC7GBU</i> <i>Cliff Warrick</i> <i>Tiffin Sinks</i> <i>Tim Dezellem, KI7FBG</i> <i>Steve Brice, NA7T</i> <i>Ivan Loock, N7PRM</i></p> <p><u>V.E. TESTING</u> <i>John Bucsek, KE7WNB</i> <i>Bruce Maxwell, N5GB</i> <i>Bob Recny, N8SQT</i> <i>Benton Holzwart, KF7QLP</i> <i>Phil Yasson, AB7RW</i> <i>Barbara Yasson, AC7UH</i></p> <p><u>HAM DEMO STATION</u> <i>Ron O'Connor, KD7VIK</i> <i>Russ Mickiewicz, N7QR</i></p> <p><u>TALK-IN STATION</u> <i>STARS (Seaside)</i> <i>Sunset Empire ARC (Astoria)</i></p>
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The Wilse Morgan, WX7P, Memorial ARRL Northwestern Division Scholarship

This scholarship fund has been endowed through the generosity of the members of the ARRL Northwestern Division in memory of Wilse Morgan, WX7P (SK). Wilse lived in Alaska and Washington and was deeply involved in ARRL and the many Amateur Radio activities in the Northwestern Division. Every year, a scholarship in Wilse's memory is awarded to an eligible young ham living in the Northwestern Division (Alaska, Idaho, Montana, Oregon, or Washington) active in emergency communications, contesting, DXing, or other Amateur Radio activities, and who is pursuing higher education to study engineering, medicine, science, or business.

To contribute to this scholarship, please go to www.arrl.org/arrl-foundation-donation-form or contact Lauren Clarke, KB1YDD, at lclarke@arrl.org or 860-594-0348.

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