



Northwestern Division Convention

“The Future Starts Here”



Photo © City of Seaside Visitors Bureau

Seaside Convention Center

Seaside, Oregon

June 1, 2, and 3, 2018

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 36th 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 became a premier gathering place for hams. Whether you are from the ARRL NW Division, the USA, or an international participant, Welcome!

Our theme, "Future Starts Here" hints at a bright future for amateur radio with many innovations and service opportunities to come. Clubs and volunteers in the Northwestern Division continue to serve their communities and beyond. Amateur radio license numbers continue to climb when other areas are shrinking.

The *SEA-PAC* Committee, composed of more than two dozen volunteers, works all year to make this event a satisfying experience for you. Let us know how we're doing. The Oregon Tualatin Valley Amateur Radio Club sponsors the *SEA-PAC* Convention. Clark County Amateur Radio Club co-sponsors the Convention and many other clubs add support.

We hope you enjoy the Friday workshops, commercial exhibitors, club displays, seminars, flea market, and prizes. Whether your interest in Amateur Radio as a SERVICE or Amateur Radio as a HOBBY predominates... working together we're strongly moving Amateur Radio into the new century. *SEA-PAC* wants to continue at the heart of that progress.

Welcome to Seaside!



Delvin R. Bunton, NS7U
2018 SEA-PAC Convention Chairman

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SEA-PAC WELCOMES OUR ARRL GUESTS



Greg Widen, KØGW, is the ARRL First Vice President and lives in Stillwater, MN, in the St. Croix River Valley just west of Wisconsin. He has been a licensed ham and ARRL member for more than 49 years. Originally licensed as WN2ZSH, he obtained the call sign KØGW after he moved to Minnesota in 1974 and earned his amateur Extra class license. He has served as Assistant Section Manager, Technical Specialist in the Minnesota section, and a Registered Instructor. He is an ARRL Life Member.

Greg has served on the ARRL Board of Directors since 2007, when he was appointed Vice Director of the Dakota Division. He became Director in 2010. For several years he was on the Programs and Services Committee as well as the Ethics and Elections Committee. Greg served as chairman of the Administration and Finance Committee, which is responsible for overseeing ARRL human resource issues and information technology, as well as income and expenditures. In 2016, he was elected First Vice President of ARRL.



Steve Ewald, WV1X, is the ARRL Field Organization Supervisor who helps provide guidance and administrative support to Section Managers and Field Organization appointees. He has been a staff member at ARRL Headquarters for 36 years, and is active as a club officer for the Newington Amateur Radio League and the Connecticut Chapter of QCWA.

Steve is originally from Knoxville, Tennessee, and was first licensed as a radio amateur in 1972. He holds a Bachelor of Science degree in Communications from the University of Tennessee.



Yvette Vinci, KC1AIM, is the Circulation/Member Services Manager of the American Radio Relay League. She joined ARRL in June 2013 and is responsible for the distribution of QST and thoroughly enjoys supporting members of the ARRL organization.

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. Jim 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. Jim has been an ARRL member for 50 years. An avid contest 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

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
June 3-5, 2022	June 5-7, 2027

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 503.803.6134*

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. Bonnie 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 1

Friday Workshop: Antenna Modeling (Seaside Elks Club #1748, 324 Avenue A)	9:00 AM - 5:00 PM
Friday Workshop: Emergency Comm & Preparedness (Riverview A/B/C)	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 "No-Host" Lunch	12:00 Noon
SEA-PAC Special Event - Portable Stations at the Beach (Across from the Shilo Inn)	7:00 PM

Saturday, June 2

Exhibitor/Flea Market Set-Up	7:30 AM - 9:00 AM
Registration Open	8:00 AM - 4:30 PM
VE Exams (Pre-registered only 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
ARRL Forum (Riverview B/C)	10:00 AM - 11:50 AM
YL Luncheon (Shilo Inn).....	11:30 AM - 12:45 PM
DX Luncheon (Shilo Inn).....	11:30 AM - 12:45 PM
SEA-PAC Special Prizes Drawing	2:30 PM - 3:00 PM
Pre-Banquet Happy Hour	6:00 PM - 7:00 PM
SEA-PAC Special Event - Maritime Disasters and Safety at Sea (Broadway Middle School, 1120 Broadway)	6:30 PM - 8:00 PM
SEA-PAC Banquet (Convention Center).....	7:00 PM

Sunday, June 3

Registration Opens	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 Keynote Speaker



**Keynote Speaker is Steve Hicks, N5AC
Vice President of Engineering at FlexRadio Systems**

Topic "OUR FUTURE BEGINS HERE"

Amateur Radio has developed a "looking to the future" mindset. Whether in technology, which has given us activity in Space and Digital breakthroughs, or in our efforts to make the world a smaller place with our international outreach.

The Future has begun...and we're part of it.

Banquet Prizes

Yaesu VX-6R 144/220/440 Handheld

Go Pro Hero 5 Camera

Netflix one-year subscription

And more...

Banquet Master of Ceremonies: Everett Curry, W6ABM

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!

SEA-PAC Pocket Lanyard

The SEA-PAC Lanyard can be purchased for only \$5 at the extra prize ticket table in the lobby.

Previous year purchasers that bring their lanyards can pick up a replacement 2018 pocket booklet for free also at the extra prize ticket table 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.



7th AREA QSL BUREAU

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ARRL 7th QSL Bureau

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Ham Radio Outlet

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QCWA / Beaver State Chapter

QRPworks

Rescue Tape

RF Gear 2 Go

RT Systems

SteppIR Communications

Sunset Empire ARC / W7BU

Suzie Solar

Ventenna

Washington State Guard

Western Case

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

Arcom Controllers
 Arlan Communications
 Cat Tails Design
 Compudigital Industries
 Buddipole
 DC Power
 Ham Gear by E&M Embroidery
 Elecraft
 Elk Antenna
 Flex Radio
 Gary Dawson Design
 Ham Radio Outlet
 Hip-Ham Shirts
 Hi-Tech Liquidators
 HRD Software
 ICOM America
 ICS Controllers
 J-Poles
 JVC Kenwood USA
 Larry's Antenna
 Martronics
 NCG Corp
 NW Digital Radio
 Powerwerx
 Rescue Tape
 RT Systems
 SteppIR Communications
 Suzie Solar
 Tigertronics
 The RF Adapter Guy
 Ventenna
 Western Case
 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
 Holiday Inn Express & Suites
 Inn at Seaside
 Motel 6 at Seaside
 Norma's Seafood & Steak
 Pig 'N Pancake
 Portland Fudge
 River Inn Motel
 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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 on Facebook!
 (SEA-PAC)



Follow **SEA-PAC**
 on Instagram!
 (seapac_hamradio)

*Please express your appreciation to the many dedicated volunteers, vendors,
 and flea-marketers that made SEA-PAC 2018 possible.
 The SEA-PAC committees are listed on page 42.*

SEA-PAC Prizes

Sunday Major Prizes

Sunday 1:00

FlexRadio 6400	160-6M DSP Transceiver
Icom IC-7300	160-6M Transceiver
SteppIR	Antenna
Yaesu FTM-100DR	144/440 Analog/C4FM Fusion Mobile
Kenwood TH-D74A	144/220/440 Analog/DSTAR Handheld
Yaesu FT-70DR	144/440 Analog/C4FM Fusion Handheld
Wouxun KG-UV9D-Plus	144/440 Handheld
DJI Spark Drone	With remote control
Heil PSE-6	Pro Set Elite 6 Headset
MFJ-226 1-230 MHz	Graphic Vector Network Antenna Analyzer
And more...	

Saturday Special Prizes

Saturday 2:30

Yaesu FTDX-1200	160-6M Transceiver
Icom IC-718	160-10 Meter Transceiver
Yaesu FT-2DR	144/440 Analog/C4FM Fusion Handheld
Kenwood TH-K20A	144 Handheld
Yaesu FT-8900R	29/50/144/440 Mobile Transceiver
And more...	

Early Bird

Need not be present

Registrations received by April 15, 2018

Icom IC-T70A-HD-15	144/440 Handheld
Icom IC-V80-HD	144 Handheld
Kenwood TH-D72A	144/440 FM APRS Handheld
Kenwood TM-281A	144 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. Monte 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 49 years, have 2 children: Tiffany, who lives in Bremerton and Lamont who lives in Dallas, TX. He is retired from the State of Washington where he served as a public safety communications manager. For the past seven years, he has served in the Washington State Guard.

2018 is ...
the ARRL's 104rd year,
SEA-PAC's 36th year,
and the YLRL's 79th year

SEA-PAC DX & YL Luncheons

DX Luncheon Speaker

Greg Widin, KØGW , ARRL Vice President
"OPEN ENROLLMENT IN THE DX WORLD"



There's a perception that DX is an exclusive "club" which only accepts old, well-heeled members. It's not something that people have been doing wrong — it's something that needs to be done that isn't occurring now.

YL Luncheon Speaker

Marilyn Melhorn, AF7BI, YLRL President
"YL EXPOSURE IS INTERNATIONAL"



In 2014, The Young Ladies Radio League Planning Committee brought the International YLRL Convention to the Northwestern Division, hosted in Vancouver Washington. This was a first. Women in amateur radio are playing important roles. We clearly have a world-wide view.

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."



AMSAT welcomes you to SEA-PAC 2018!

Join, Volunteer, Donate, or Support

Keep Amateur Radio in Space™

**Meet AMSAT President
Joe Spier, K6WAO**

Visit us at the AMSAT Booth!

www.amsat.org

Repeaters at *SEA-PAC*

SEA-PAC Talk-in

Owner: STARS

145.45(-) Tone 118.8

Yaesu System Fusion

Owner: ARRG

DR-1X (AMS)

442.350+ Tone 100.0

DMR

Owner: KB7APU

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BOOTH

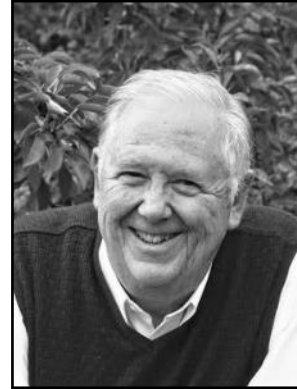


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John Core, KX7YT Oregon Section Manager

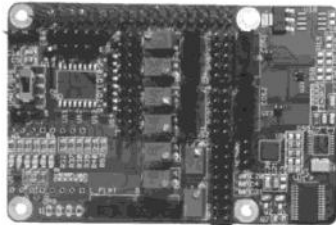
John was first licensed in 1970 as a Novice and has, over the years, advanced to an Extra Class Amateur as KX7YT. His work as an international consultant took him to Asia where he was licensed in Bangladesh and India operating on the HF bands during 2000 to 2008. He has been active in Oregon ARES since 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.



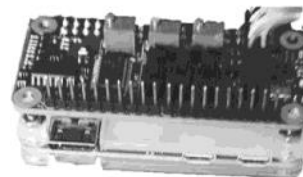
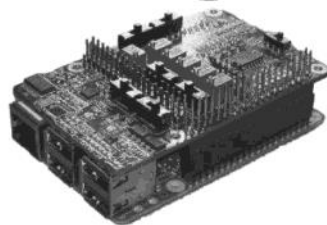
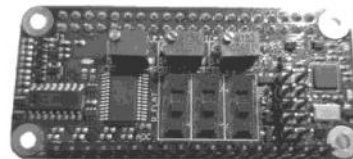
 **controllers**

Raspberry Pi based family
of repeater controller
systems

PI-REPEATER-2X



PI-REPEATER-1X

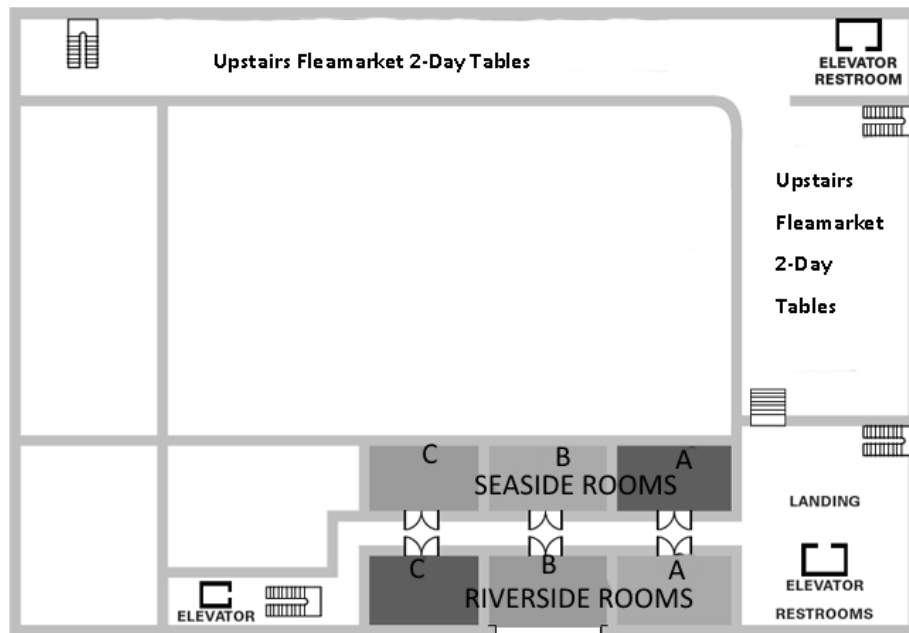


2-PORT \$159.95

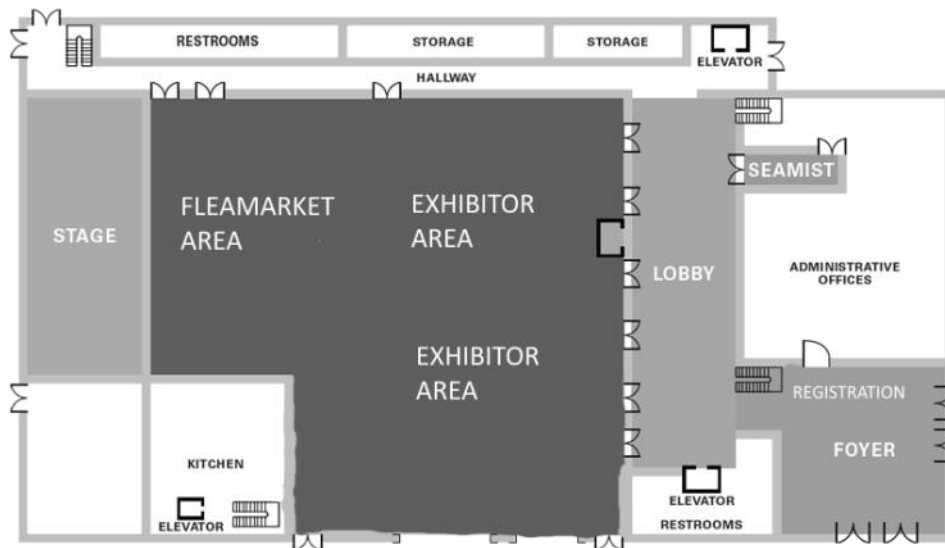
1-PORT \$69.95

www.ics-ctrl.com/pi-repeater

Seaside Convention Center

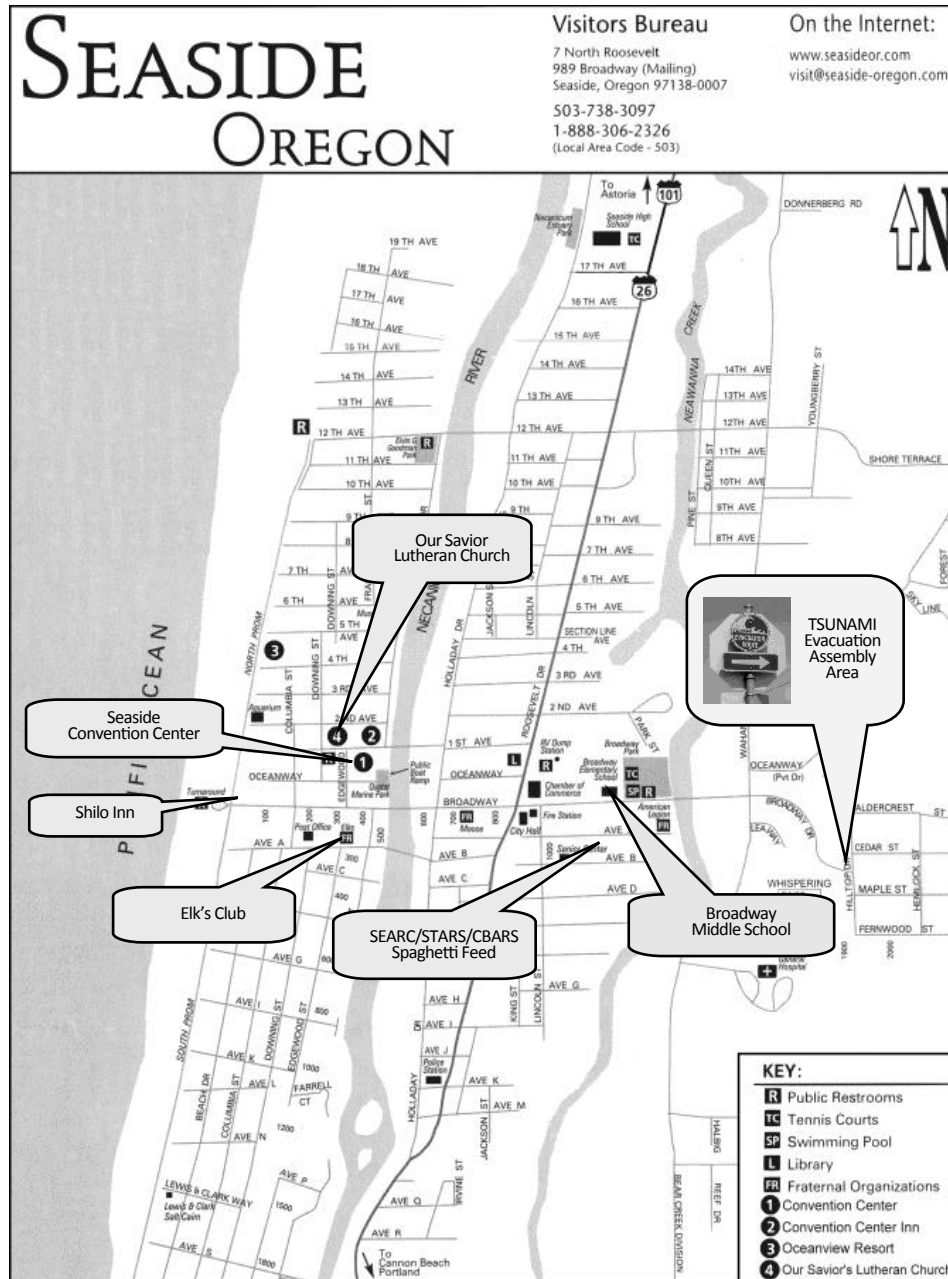


UPSTAIRS



DOWNSTAIRS

SEA-PAC Activity Locations



SEMINAR SCHEDULE

			A	B	C	D
Day	Period	R	Riverview A	Riverview B	Riverview B/C	Riverview C
Sat	1000-1050	1	Solar Eclipse Wrap-up (VE7DXW)		ARRL Forum 1 (K7CEX/AB7ZQ K0GW)	
Sat	1100-1150	2	Winlink Hybrid Radio Email Network on HF SHARES (W7JOC)		ARRL Forum 2 (K7CEX)	
Sat	1200-1250	3			Noise on the bands and how to tame it (W7VO & NK7Z)	
Sat	1315-1415	4	EYEWARN (N07DE)		Kosovo: The Process Leading to a New DXCC Entity (K9JF)	
Sat	1510-1600	5	ARRL Field Organization in Action (WV1X)	DX Myths and Excuses (K0GW)		
Sat	1610-1700	6	Growing Your Club to Club of the Year (N7XBY)	How to Work DX- From the First 100 to the Honor Roll (K7VV)		WWARA - Repeater Coordination in Western Washington (KU7M)
Sun	1000-1050	7	Washington State Guard--Have Radio Will Travel (AE7UM)		Portable Operations With Solar Power 1 (KB7RHI)	
Sun	1100-1150	8			Portable Operations With Solar Power 2 (KB7RHI)	

See Pages 24 & 25 for Seminar Synopsis
(use row number THEN column letter (e.g. "3A"))

SEMINAR SCHEDULE

E	F	G	H	J
Seamist	Seaside A	Seaside B	Seaside B/C	Seaside C
Using a Windows PC/laptop/tablet as a low-cost DMR/DSTAR Transceiver (WA6PX)	Going on your first DXpedition (K7AR)		Balloon launching with ham radio (KD4STH)	
Eyeballing the DX: Meeting the DX Face-to-Face (KB7NJV)	Intro to Software Defined Radio (SDR) (SDRPlay)		Yaesu new products (N9UPC)	
Quarter Century Wireless Assn (KG7BF)	Bringing your Kenwood TS-930 and TS-940 back to life (AK6OK)		Ham Radio Deluxe Features & Futures (WA9PIE)	
Oregon ARES (KA7OZO)	Portable Email/Messaging with Winlink (K7JSG)		Digital Mobile Radio (DMR) (KB7APU)	
MARS-Defense Against the Ghost in the Box (AE7UM)	FCC Regulatory Discussion (K2ASP)	Understanding RF Propagation (KD7RUS)		FT8 Digital Mode, DX Fun with Modest Equipment 1 (WA9ONY)
	YL Forum: Chasing Elusive Counties (AC7UH)	Magnetic Loop Antennas (KE7UAE)		FT8 Digital Mode, DX Fun with Modest Equipment 2 (WA9ONY)
ARRL Division Leadership Meeting 1 (K7CEX)			The APRS of Things (K7UDR)	
ARRL Division Leadership Meeting 2 (K7CEX)	Build your own Crystal Filters (WA7MLH)		Painless Path to Mastering Ham Radio Math (AF7KB)	

SEMINAR SUMMARIES

Grid	Presenter & Synopsis
1A	Alex Schwarz (VE7DXW): During the solar eclipse, the RF-Seismograph team was recorded the noise level and propagation, and were surprised. Come hear a journey to learn more about our sun and radio effects.
1C	Jim Pace (K7CEX), Bonnie Altus (AB7ZQ), Greg Widin (K0GW): Hear what the League is doing now, and interact with Division and Section Leaders, League Officers, and Staff.
1E	J G Shaw (WA6PX): Learn how to use a Windows computer or tablet as a VHF/UHF DSTAR or DMR transceiver using free software.
1F	Al Rovner (K7AR): Al has operated from many countries over the last 30 years, and will share his experience in operating, licensing, travel, and what it's like to be the DX station. Learn how to plan your DX-pedition.
1H	Paul Verhage (KD4STH): Ham radio has supported science and data collection for decades. Paul will show attendees how he used ham radio to explore the near space environment and last year's total solar eclipse.
2A	Terry Pietras (W7JOC): Learn about the DHS Winlink Hybrid Radio Email Network System recently adopted by Oregon OEM for backup communications. This was also used recently in Puerto Rico after the hurricanes.
2C	Jim Pace (K7CEX): {See 1C Above}
2E	Frank Gruber (KB7NJV): Ham radio operators are an international "family." Meeting our overseas colleagues is one of the joys of our hobby. Hear and discuss how to meet these DX "cousins," face-to-face.
2F	Steve Brightman (SDRPlay): Software-defined radio offers more flexibility than past radios. Learn how to understand and appreciate what they can and cannot do.
2H	John Kruk (N9UPC): Yaesu has some new products to show, and changes to some existing products. Come ask questions.
3C	Mike Ritz (W7VO) & David Cole (NK7Z): Noise can be the bane of a ham radio operator, and has many sources (including our own stuff). Learn how to deal with many noise types.
3E	Mike Hurley (KG7BF): Come find out what Quarter Century Wireless Association is all about, local activities, and membership benefits. All are welcome.
3F	Jeff Hilliard (AK6OK): Love your TS-930 and TS-940 radios? Learn how they work, and how to replace the overworked power supply for a cooler running radio.
3H	Michael Carper (WA9PIE): Ham Radio Deluxe not only can log your QSOs, but also control your antennas and radio. Learn some of the capability offered by this logging system.
4A	John Gaynor (NO7DE): Learn a method created by Clark County ARC that allows all hams a way to help during community emergencies, usually from where ever you are at the time.
4C	Jim Fenstermaker (K9JF): The process to approve a new DXCC entity can take years; for Kosovo it took at least 10 years. Listen to the story behind the newest DXCC entity from one who cut the path. Jim was the only American invited to the first activation as DXCC entity.
4E	David Kidd (KA7OZO): Interested in learning about ARES in Oregon? The meeting will discuss various matters that Oregon ARES groups.
4F	Scott Green (K7JSG): Learn how to use your handheld radio and send emails/messages with WinLink. Gain confidence in sending messages from remote locations and low power.
4H	Loren Flindt (KB7APU): Learn how DMR works and how it is used to support Search and Rescue.
5A	Steve Ewald (WV1X): Learn how the ARRL Field Organization plays a vital role in public service and the Amateur Radio community.

SEMINAR SUMMARIES

Grid	Presenter & Synopsis
5B	Greg Widin (K0GW): Dxing is not just for older, well-heeled operators. This session will cover many of the roadblocks to getting started as a DXer—and why they really are not roadblocks at all.
5D	Craig Carnahan (N7LB): Have a new (or new to you) radio but don't understand the manual? This seminar is for you. Come learn the basics that apply to most radios, and start using your radio.
5E	Mark Willson (AE7UM): Learn how the U.S. Army and Air Force use MARS (Military Auxiliary Radio Service) to help protect government communications from the hidden threats embedded in the technology all around us.
5F	Phil Kane (K2ASP): Interactive discussion on various FCC regulations and how they affect your situation.
5G	Tim Kuhlman (KD7RUS): The way radio waves travel from one radio station to another can seem esoteric. This seminar will explain RF propagation in a practical way so beginning hams and seasoned operators can use that info.
5J	David Haworth (WA9ONY): FT8 digital mode brought new life into Dxing, and works on 160 meters to 70 cm. Learn how you can succeed with low power and average antennas.
6A	Nicole Crosby (N7XBY): Clark County ARC was honored as Club of the Year at the Dayton Hamvention in 2017. Learn what the CCARC did over many years to earn the honor.
6B	Vince Van Der Hyde (K7VV): Learn how to get started with the fun and challenging world of Dxing. How to work the first 100 entities, then how to work the harder entities. Join the fun with a modest station.
6D	Kenny Richards (KU7M): Repeaters and repeater coordination remain a mystery for many hams. Come learn how Western WA balances requests, needs, and coordination. Plus quarterly membership meeting.
6F	Barbara Yasson (AC7UH): Presentation will cover what county hunting is and how to get started. There will be many YL county hunting stories. County hunting is 50 years old; let's keep it going.
6G	Paul Hamilton (KE7UAE): Just what is a magnetic loop antenna, and how does it work?
6J	David Haworth (WA9ONY):
7A	Mark Willson (AE7UM): Discover how this tiny all-volunteer Unit of the WA Military Dept leverages radio, technology, and innovative thinking to help protect its citizens from the worst nature or man sends our way.
7C	Mark Breakey (KB7RHI): Learn the differences between AGM and LFP batteries for portable solar-powered operation. Review a backpack-sized station, and how to get going with solar.
7E	Jim Pace (K7CEX): Northwest Division leadership meeting
7H	Bryan Hoyer (K7UDR): Automatic Packet Reporting System (APRS) has many facets to explore and great potential for many applications. Come learn some potential and actual uses for this interesting ham technology.
8C	Mark Breakey (KB7RHI): (See 7C above)
8E	Jim Pace (K7CEX): (See 7E above)
8F	Jeff Damm (WA7MLH): Learn a technique that will allow you to create filters that work for you.
8H	Michael Burnette (AF7KB): Learn the Fast Track approach to ham radio math and improve your overall math skills. Never be intimidated by another formula!



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



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The 10th Annual STARS/SEARC

All You Can Eat Spaghetti Dinner

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from 5:00 p.m. to 8:00 p.m.

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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 President of OTVARC, and past 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 Trustee of OTVARC and a member of the local ARES group. She enjoys talking on the occasional VHF net and helping with field day.

Sponsor Lodging



SEA-PAC Special Events

Portable Stations at the Beach

(The beach west of the Shilo Inn)

Friday, June 1

7:00 pm

For those of you in Seaside Friday evening, we invite you down to the beach west of the Shilo Inn. 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 will save some sand for you.

Be sure and visit the communication trailer displays across the street from the Convention Center Lobby

SEA-PAC Special Events

Maritime Disasters and Safety at Sea

Broadway Middle School

1120 Broadway

Saturday, June 2

6:30 pm

Saturday evening family program: Bruce Jones, Deputy Director of the Columbia River Maritime Museum, will present a program on maritime disasters and safety at sea. The Columbia River bar is among the most dangerous crossings in the world. Bruce served in the US Coast Guard before joining the Museum.

More information on his talk is at <http://www.coastweekend.com/cw/coastal-life/20180216/bruce-jones-recounts-disasters-at-sea>. There is no charge for the event at 6:30 PM on June 2 at the Broadway Middle School cafeteria, 1120 Broadway in Seaside (about 5 blocks east of the Convention Center).

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.



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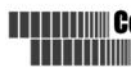
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Tsunamis

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 (see map on page 21)
- 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 Broadway Middle School, walk SOUTH to Broadway then EAST up the hill to the evacuation assembly area.

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

His father has worked on radios most of his life and got him interested in Amateur radio. At the age of 13, he joined Civil Air Patrol (US Air Force Auxiliary) where he received a radio operators permit and became active in radio communications. He then expanded his interest in radio communications and studied for an amateur license.



The C.A.P got Joseph interested in the field of cyber security through the Cyber Patriot program. He continued to grow his interest by working on earning a bachelor's degree in cyber security and intelligence from Embry Riddle Aeronautical University. Joseph is active in different organizations on campus including Silver Wings which is a professional development and service organization. He is also active in the Air Force Reserve Officer Training Corps (AFROTC) where he hopes to be commissioned as an officer and use his degree in the U.S. Air Force.

Joseph Heil, KF7FME



First licensed at the age of nine, Joseph Heil is now an Amateur Extra. On the airwaves, he enjoys operating HF using his vintage Kenwood hybrid radios and backyard dipole. Joseph especially likes the challenge of chasing DX, both CW and SSB. He's not quite at DXCC yet, but has managed to work some fun locations, such as Western Sahara and East Malaysia. Joseph is a member of the Oregon Tualatin Valley Amateur Radio Club and has participated in the Club's Field Day for the past three years.

Besides amateur radio, Joseph has other interests. He has a home chemistry lab. He has studied the piano for ten years, holds a private pilot certificate and enjoys general aviation flying. Joseph is a senior at Beaverton High School, where he has been involved in the choir program for three years. He was the founder of an experimental amateur radio club at the high school. In the fall, Joseph will attend LeTourneau University in Longview, Texas, where he will pursue a degree in Chemistry with an engineering concentration. Joseph then plans to attend Iowa State University for a master's degree in chemical engineering. In this study, Joseph hopes to build on knowledge and skills developed both in and out of the classroom. Joseph wishes to thank the scholarship committee and members of OTVARC for their support. He is thankful for the support of his grandfather, Chuck Heil K7FIZ, and mentors and friends Wes Hayward W7ZOI and Bill Conwell K2PO.

Convention Meeting Schedule

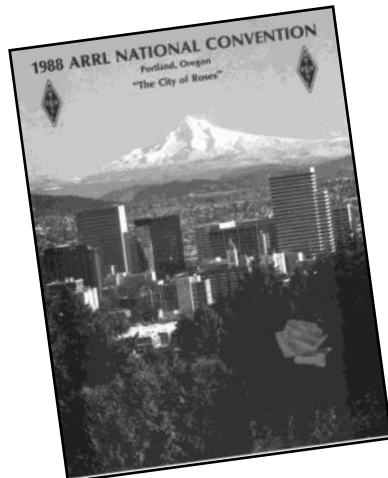
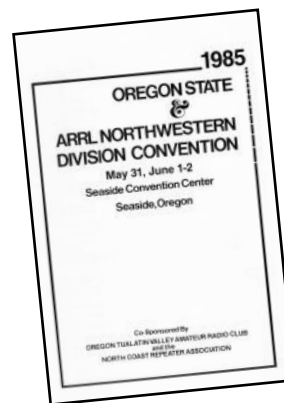
Saturday

12:00-12:50	QCWA Forum	Convention Ctr — Seamist Room
13:15-14:15	Oregon ARES Meeting	Convention Ctr — Seamist Room
15:10-16:00	Army MARS	Convention Ctr — Seamist Room
16:10-17:00	YL Forum	Convention Ctr — Seaside "A"

Sunday

10:00-12:00	ARRL NW Division Leadership Meeting	Convention Ctr — Seamist Room
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SEA-PAC Through the Years



George Forsyth, AA7GS Montana Section Manager



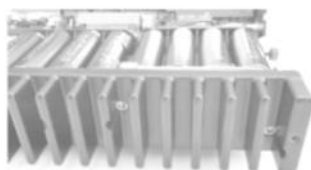
Licensed nearly 30 years, George is an Extra Class licensee. He has committed himself to build the Montana Section into a vibrant community where everyone is involved and recognized.

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

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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.

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