

# SEA-PAC 2018 Seminar Details

## Saturday:

- 1000-1050  
Riverview A      **Solar Eclipse Wrap-up**  
*Presenter:*    Alex Schwarz (VE7DXW)  
Last year during the solar eclipse the RF-Seismograph team was recording the noise level and propagation. An experiment performed by HAM operators before, but never as detailed as with the RF-Seismograph. After the experiment the measured results were not what we expected at all!  
This talk takes us on a journey. It shows that the bigger picture, or what happened on the sun during the eclipse and the few month after, has very strong impact on how we can measure the propagation effect of the shadow of the moon. The fall of 2017 was extremely interesting for watching sun and solar activity, which included the strongest solar flare in 30 years...
- 1000-1050      **ARRL Forum 1**  
Riverview B/C *Presenter:*    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.
- 1000-1050  
Seamist          **Using a Windows PC/laptop/tablet as a low-cost DMR/DSTAR Transceiver**  
*Presenter:*    J G Shaw (WA6PX)  
Learn how to obtain, install, and operate either one of two free software packages that enable an internet-connected Windows computer to perform as a simple VHF/UHF DSTAR transceiver.    And, in the case of one of the software offerings, learn how it also operates as a Windows-based, VHF/UHF DMR transceiver via BrandMeister, DMR Plus, and/or XLXDMR. (Note: The author of the software with DMR capability has announced his intention to add a third
- 1000-1050  
Seaside A        **Going on your first DXpedition**  
*Presenter:*    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.    Operating from a DX location is a great way to meet new hams, increase your operating skill and provide a possible new country for hams
- 1000-1050  
Seaside B/C      **Balloon launching with ham radio**  
*Presenter:*    Paul Verhage (KD4STH)  
Amateur radio has been used to support science and data collection for decades. Today, a dedicated set of amateur radio operators are using it to support amateur science and STEM education. At this presentation, Paul will show attendees how he has used ham radio to explore the near space environment and last year's total solar eclipse.

- 1100-1150 Winlink Hybrid Radio Email Network on HF SHARES  
Riverview A *Presenter:* Terry Pietras (W7JOC)  
This seminar will discuss the Department of Homeland Security's new Winlink Hybrid Radio Email Network System which is now supported on the Federal HF SHARES frequencies but available to state government. A true Emergency Communications Service that is being supported by the Oregon Office of Emergency Management, which may become the primary means of backup communication for state government and local jurisdictions. Learn how this New communications tool was used extensively for Puerto Rico during the 2017 hurricane season.
- 1100-1150 ARRL Forum 2  
Riverview B/C *Presenter:* Jim Pace (K7CEX)
- 1100-1150 Eyeballing the DX: Meeting the DX Face-to-Face  
Seamist *Presenter:* 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.
- 1100-1150 Intro to Software Defined Radio (SDR)  
Seaside A *Presenter:* Steve Brightman (Steve)  
Software-defined radio offers more flexibility than past radios. Learn how to understand and appreciate what they can and cannot do.
- 1100-1150 Yaesu new products  
Seaside B/C *Presenter:* John Kruk (N9UPC)  
Yaesu has some new products to show, and changes to some existing products. Come ask questions.
- 1200-1250 Noise on the bands and how to tame it  
Riverview C *Presenter:* 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.
- 1200-1250 Bringing your Kenwood TS-930 and TS-940 back to life  
Seaside A *Presenter:* Jeff Hilliard (AK6OK)  
Everyone loves their TS-930 and TS-940 radios! I will be discussing how these radios work and some of the pluses and minuses of the original design. Today's technologies allow us to modify these awesome radios by completely replacing the power supplies allowing them to run cooler, more efficiently, and safely. And you can do it yourself!

- 1200-1250 Ham Radio Deluxe Features & Futures  
 Seaside B/C *Presenter:* 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.
- 1315-1415 EYEWARN  
 Riverview A *Presenter:* 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.
- 1315-1415 Kosovo: The Process Leading to a New DXCC Entity  
 Riverview B/C *Presenter:* Jim Fenstermaker (K9JF)  
 The process to approve a new DXCC entity can take years; for Kosovo it took at least ten years. Listen to the story behind the newest DXCC entity from one who cut the path. Jim was the only American invited to participate in the initial operation from Z60A in Pristina, Kosovo during the month following DXCC accreditation.
- 1315-1415 Portable Email/Messaging with Winlink  
 Seaside A *Presenter:* Scott Green (K7JSG)  
 If you have a handheld or a smaller portable amateur radio you can do portable email/messaging with Winlink. This opens up a number of possible uses like being in the field during an emergency and being able to send email/messages to your EOC or sending an email to your family while camping in the wilderness. Learn how to setup and use Winlink with handhelds and smaller portable amateur radios. There will be a give away at the end of the seminar for Signalink HT Cables so you can give Portable Winlink a try.
- 1315-1415 Digital Mobile Radio (DMR)  
 Seaside B/C *Presenter:* Loren Flindt (KB7APU)  
 Learn how DMR works and how it is used to support Search and Rescue.
- 1510-1600 ARRL Field Organization in Action  
 Riverview A *Presenter:* Steve Ewald (WV1X)  
 Learn how the ARRL Field Organization plays a vital role in public service and the Amateur Radio community.
- 1510-1600 DX Myths and Excuses  
 Riverview B *Presenter:* Greg Widin (K0GW)  
 There's a perception that DXing is an exclusive "club" for older, well-heeled operators. This is just one of the myths that get in the way when hams think about getting started in DXing. This session will cover many of the roadblocks to getting started as a DXer—and why they don't need to be roadblocks.

- 1510-1600  
Riverview C     **Programming Your New Radio**  
*Presenter:*     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.
- 1510-1600  
Seamist     **MARS-Defense Against the Ghost in the Box**  
*Presenter:*     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. Technology is a wonderful thing, but it does present a variety of risks. Every device is based on a long string of innovations and developments that have come before. Just like human genes, that past history can manifest itself unexpected and deadly ways.
- 1510-1600  
Seaside A     **FCC Regulatory Discussion**  
*Presenter:*     Phil Kane (K2ASP)  
Interactive discussion on various FCC regulations and how they affect your situation.
- 1510-1600  
Seaside B     **Understanding RF Propagation**  
*Presenter:*     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 have a better understanding of
- 1510-1600  
Seaside C     **FT8 Digital Mode, DX Fun with Modest Equipment 1**  
*Presenter:*     David Haworth (WA9ONY)  
FT8 digital mode became available in the summer of 2017 and it has put new life in DXing with modest equipment. FT8 is found on most amateur bands from 160 meters to 70 cm.  
FT8 allows stations with power less than 100 watts and below average antennas to make long distance contacts. This session introduces you to the FT8 digital mode, its operation and operating techniques.
- 1610-1700  
Riverview A     **Growing Your Club to Club of the Year**  
*Presenter:*     Nicole Crosby (N7XBY)  
Clark County ARC was honored as Club of the Year at Dayton in 2017. Learn what CCARC did over many years to earn the honor.

- 1610-1700  
Riverview B **How to Work DX-From the First 100 to the Honor Roll**  
*Presenter:* Vince Van Der Hyde (K7VV)  
This talk is aimed at beginning DX'ers who want and need to know the basic techniques and on-the-air operating practices for effective DXing. We'll cover some basic ideas and useful tools for working the first hundred countries, and then follow up with some more 'advanced' techniques as time avails. Come and join the fun!
- 1610-1700  
Riverview C **WWARA - Repeater Coordination in Western Washington**  
*Presenter:* Kenny Richards (KU7M)  
Want to learn about how repeater coordination works in Western Washington? Have questions about a pending coordination or just how the WWARA operates? The WWARA is holding its quarterly membership meeting on Saturday afternoon, with a short presentation on coordination process and all the services the WWARA provides for repeater owners and repeater users.
- 1610-1700  
Seaside A **YL Forum: Chasing Elusive Counties**  
*Presenter:* 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.
- 1610-1700  
Seaside B **Magnetic Loop Antennas**  
*Presenter:* Paul Hamilton (KE7UAE)  
Just what is a magnetic loop antenna, and how does it work?
- 1610-1700  
Seaside C **FT8 Digital Mode, DX Fun with Modest Equipment 2**  
*Presenter:* David Haworth (WA9ONY)

## Sunday

- 1000-1050  
Riverview A **Washington State Guard--Have Radio Will Travel**  
*Presenter:* Mark Willson (AE7UM)  
Discover how this tiny all-volunteer Unit of the Washington Military Department leverages radio, technology, and innovative thinking to help protect its citizens from the worst that Nature or Man has to offer. Whether dealing with traditional threats like fires, floods, and landslides or more modern ones like cyber, hacking, and data theft the WSG is there to help guard against them. Learn how people like you are helping make a difference.
- 1000-1050  
Riverview B/C **Portable Operations With Solar Power 1**  
*Presenter:* Mark Breakey (KB7RHI)  
Mark will demonstrate the difference between AGM and LFP batteries in your portable solar powered station. Will show a backpack sized station that operates full power in the field and a larger 120 watt solar powered station. Second hour will discuss the basic strategies for how to stay on the air.

- 1000-1050      The APRS of Things  
Seaside B/C      *Presenter:*    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.
- 1100-1150      Portable Operations With Solar Power 2  
Riverview B/C      *Presenter:*    Mark Breakey (KB7RHI)
- 1100-1150      Build your own Crystal Filters  
Seaside A          *Presenter:*    Jeff Damm (WA7MLH)  
Learn a technique that will allow you to create filters that work for you.
- 1100-1150      Painless Path to Mastering Ham Radio Math  
Seaside B/C      *Presenter:*    Michael Burnette (AF7KB)  
Michael Burnette, AF7KB, is the author of the bestselling Fast Track to Your Ham License series and has led seminars all over the world. Michael will teach the research-based step-by-step Fast Track system for learning and mastering any level of ham radio math. Never be intimidated by another formula!