

Quartzfest 2020

Presenter Biographies and Session Descriptions

QuartzFest

A week-long ham radio, camping, learning and living event

an ARRL Specialty Convention



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an ARRL Specialty Convention



Qfest '20 Sun. 01/19 Presenter Bio and Session Description

- **Quartzfest* 2020 Opening Ceremony** **1400** **Main Fire Ring – Area 1**
 - Speaker Introduction
 - Kristyn Weed/KR1SS (Advanced Class)
 - Session Description

- **Bridge Road Chicken Ranch Wine Tasting** **1600** **Main Fire Ring – Area 1**
 - Speaker Introduction
 - Kevin Hedgepeth/NB7O & Michelle Hedgepeth/K7MGO
 - We are hobby, home wine makers. We make wine from grapes that we grow and from fruit concentrates that we purchase. We prefer a sweeter wine and had trouble finding wines that we liked. So we started making our own. We do not put preservatives in our wine (with one exception) because sulfites cause so many people to suffer from consuming it. So our wines must be consumed within a year or two after bottling. We cannot sell our wines as we are not licensed and do not pay taxes on what we make. But we have a lot of fun sharing with family and friends. We also take our Concord Grape wine to our Lutheran Church where it is used in the Communion Meal.
 - Session Description
 - For many years we have provided wine to the Quartzfest Committee to share with the Quartzfest community through the afternoon raffles. We have had great feedback from many of you that you too like our sweet wines. But we cannot bring enough wine to provide wine to very many attendees. To resolve this we are offering a wine tasting so that we can at least give more of you a small taste of our sweet wine. We will provide tasting cups, crackers, and BLM will provide you some rocks and sand where you can spit out the wine if it is not to your liking. We will ask that after you taste the wines that you vote for the one that you like best. From this vote we will raffle off some extra bottles of the wine just for those who voted for that specific label.

Qfest '20 Mon. 01/20 Presenter Bio and Session Description

- **Tropospheric Ducting Explained 0900-1000 Seminar Area 1**
 - Speaker Introduction
 - Gordon West/WB6NOA (Extra Class)
 - Session Description

- **Gold Panning 10:30 – 11:30 Seminar Area 2**
 - Speaker Introduction
 - Marilyn Jordan/W6MCJ (General Class)
 - Gold prospecting for several years. Member of Gold Prospectors of America (GPAA), Lost Dutchman Miners Association (LDMA). Ham radio operator since 1995, General License. Charter Member of Mountain Top Amateur Radio Association (MTARA). Past Member of the Quartzfest Committee.
 - Session Description
 - How to locate prime areas to prospect, gather soil, classify, and pan concentrates for the final product of GOLD. Demonstrating Gold Magic Wheel. Hands on panning experience. Handouts for participants.

- **SOTA Equipment Demo 10:30 – 11:30 Seminar Area 1**
 - Speaker Introduction
 - Javier Beltran/K6TNT (General Class)
 - Javi has enjoyed SOTA for the last three years and has successfully activated eighteen summits and earned 150 points in the Activator Section. His goal is to earn the SOTA Mountain Goat award after 1000 activator points.
 - Session Description
 - Javi will present a lecture on how to get started in SOTA, a hands-on demo of his SOTA equipment, and lead a SOTA activation of nearby Cunningham Mountain. “The challenge of successfully deploying your rig in an outdoor environment is a sweet relief and a feat that will have you wanting more.”

- **Summits On The Air (SOTA) 1300 - 1400 Seminar Area 1**
 - Speaker Introduction
 - Javier Beltran/K6TNT (General Class)
 - Javi has enjoyed SOTA for the last three years and has successfully activated eighteen summits and earned 150 points in the Activator Section. His goal is to earn the SOTA Mountain Goat award after 1000 activator points.
 - Session Description
 - Javi will present a lecture on how to get started in SOTA, a hands-on demo of his SOTA equipment, and lead a SOTA activation of nearby Cunningham Mountain. “The challenge of successfully deploying your rig in an outdoor environment is a sweet relief and a feat that will have you wanting more.”

Qfest '20 Mon. 01/20 Presenter Bio and Session Description (continued)

- **How to Pass an Amateur Radio Exam** **1300 - 1400** **Seminar Area 2**
 - Speaker Introduction
 - Rick Paquette/W7RAP (Extra Class)
 - ARRL-Arizona Section Manager
 - Session Description
 - This presentation will help those who have trouble studying technical material or are having difficulty understanding the theory and regulations that are presented on the Amateur exams. It is particularly helpful to young people and those who want to get an edge on passing their Technician test. Things to do... and NOT to do when you prepare for the test are discussed and an excellent study method is outlined. A question and answer session will follow the talk.

- **Land Ops** **1300 - 1400** **Seminar Area 1**
 - Speaker Introduction
 - Chris Doering/KI6QBM (General Class)
 - Session Description

- **Kumihimo** **1300 - 1400** **Game and Craft Area**
 - Speaker Introduction
 - Debbie
 - Session Description
 - Kumihimo is a type of braiding done with thread &/or beads using a foam disk. I plan on teaching bracelets & necklaces.

- **Redlands RV** **1430 – 1530** **Seminar Area 1**
 - Speaker Introduction
 - Keith Shomaker
 - Session Description
 - Join Redlands Truck & RV for another fun and interactive seminar discussing products and services that make your RV, truck or trailer much more enjoyable to drive and relax in. Owner Keith Shomaker encourages questions and his presentations are always informative and entertaining. He will answer questions regarding RV, truck and trailer Tires, Batteries and MORE! Join him for a great time!

Qfest '20 Mon. 01/20 Presenter Bio and Session Description (continued)

- **The Art of Elmering** **1430 – 1530** **Seminar Area 2**
 - Speaker Introduction
 - Bill Mader/K8TE (Extra Class)
 - Bill Mader, K8TE, holds an Extra Class license (since 1976) and was first licensed as a Novice in Syracuse NY at age 14 as WV2RBF. He upgraded to General later that year after operating HK4YU in Medellín Columbia. Other calls include WA8WWM, KZ5WA, and DA2OI. Bill’s primary ham radio interests are DXing, Contesting, and all their associated aspects. He also held First Class Radiotelephone and Second-Class Radio Telegraph licenses, both with radar endorsements. He was reappointed ARRL Section Manager for New Mexico.

Bill is the Secretary, a former President, Activities Manager, and the Communications Officer of the Albuquerque DX Association. He has attended numerous Contest and DX Universities in Dayton, Visalia, Hartford CT, and Estes Park, CO. Bill is now retired having served 26 years in the USAF, nine years each with Radio Shack and Citadel/Cumulus Broadcasting, along with other stints in IT, electronics, and his last job—a consultant on board oil rigs/platforms in the Gulf of Mexico where he occasionally operated QRP HF. Bill has been a guest presenter at the IDXC in Visalia, Pacificon, the Rocky Mountain Division Convention, Duke City Hamfest, Ham-Com, DX University, and numerous club meetings.
 - Session Description
 - The traditional name for the individual who assisted a new ham to get a license and operate his or her own station is the “Elmer.” First used by Rod Newkirk, W9BRD, SK, in How’s DX, April 1971 QST, it is part of our lexicon. Today’s term is “Mentor” but the requirements are similar. The primary difference between then and now is we need Elmers/Mentors more than ever! Most new licensees are Technicians who come with minimal understanding of and often no experience with our treasured vocation. They’re leaving ham radio behind in great numbers and Elmers/Mentors are the primary means we can use to turn the tide.

Qfest '20 Tue. 01/21 Presenter Bio and Session Description

- **Cast Iron Cooking** **1200 - 1500** **Seminar Area 1**
 - Speaker Introduction
 - Rick Paquette/W7RAP (Extra Class)
 - ARRL-Arizona Section Manager. Rick has been Cooking in Cast Iron for many years, as well as conducting the "Hobo-Stew" dinners we had so many years here at Quartzfest. He will set-up a cooking station (Pit) and will have an array of tools and hardware to support a number of participants.
 - Session Description
 - Each year we conduct a hands-on Cast-Iron cooking session. Beginners and Newbies are especially welcome and we help explain what to do and why. There will be utensils and fire pits, so all you need to bring is a Skillet or Pot, and some gloves. Plan on bringing a dish to cook, as we will be supplying dishes for the Pot-Luck Dinner which starts at 4-PM at the main fire pit.

- **Basic Genealogy** **1200 - 1430** **Seminar Area 2**
 - Speaker Introduction
 - Michelle Hedgepeth, K7MGO, holds a General Amateur Radio license and lives in Hermiston, Oregon. Married to Kevin, NB7O. She retired from 3 different careers. She was Field Director for a youth organization for 15 years, was Superintendent and the Lead Teacher at a Christian Pre-School and retired as Office Manager and lead exam room technician for a doctor's office in Coos Bay, Oregon. Michelle was awarded the Oregon Paraoptometric Technician of the Year Award in 2006. After retirement Michelle became a "full time" volunteer!!

Michelle has been a researcher for a Professional Genealogy Society, regularly presents at the Coos County Genealogical Society in Oregon, Hermiston Genealogy Center in Hermiston, Oregon and the Tri-Cities Genealogical Society in Tri-Cities, Washington. She regularly helps individuals and researchers who are "stuck" in the genealogy researches.

In her spare time Michelle has raced sailboats in Oregon and Washington, Cruised on sailboats in Oregon, Washington, and Canada; served as state and county Training Officer for Oregon ARES, and performs with the Blue Mountain Old Time Fiddlers Association of Oregon. Michelle attends a Lutheran Church in Hermiston and is currently serving as Council President and helps lead a morning bible study, a monthly book club, and a monthly "Pub talk" about things related to religious topics.
 - Session Description
 - If you have an interest in your family history and want to document it this will be a good session to drop into. Michelle will lead a discussion on what professional genealogists require to document a family link. Hints on how to start, where to start, and what basic tools you can use to document your family's history will be presented. If you have already begun your family history this would be a good session to drop into to see if you are on the right track.

Qfest '20 Tue. 01/21 Presenter Bio and Session Description (continued)

- **County Hunting to/from Hamvention in my RV 1430 - 1530 Seminar Area 2**
 - Speaker Introduction
 - Bill Mader/K8TE (Extra Class)
 - Bill Mader, K8TE, holds an Extra Class license (since 1976) and was first licensed as a Novice in Syracuse NY at age 14 as WV2RBF. He upgraded to General later that year after operating HK4YU in Medellín Columbia. Other calls include WA8WWM, KZ5WA, and DA2OI. Bill's primary ham radio interests are DXing, Contesting, and all their associated aspects. He also held First Class Radiotelephone and Second-Class Radio Telegraph licenses, both with radar endorsements. He was reappointed ARRL Section Manager for New Mexico.

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 - Session Description
 - With under 150 counties to go and a bunch of them “on the way” from Albuquerque to Dayton and back, it seemed like a no brainer to drive his RV for a County DXpedition. Bad propagation, potholes nearly the size of an RV, thunderstorms, a flooded Interstate, etc. Yes, there were some obstacles, but, Bill, K8TE, knocked his remaining counties down with 22 activations and learned a lot about fast setups, over-scheduling, and perseverance. It may not sound like fun, but it was, and he hopes sharing his adventure with you will inspire you to chase and activate counties and put some miles on your RV.

- **Land Ops 1430 – 1530 Seminar Area 1**
 - Speaker Introduction
 - Chris Doering/KI6QBM (General Class)
 - Session Description
 - Repeat of Monday Session

Qfest '20 Wed. 01/22 Presenter Bio and Session Description

- **Designing with OpenSCAD for 3D Printing** **0900 – 1000** **Seminar Area 1**
 - Speaker Introduction
 - Alan Biocca/W6AKB (Extra Class)
 - Graduated from UC Berkeley in Electronics and Software Engineering Worked at Lawrence Berkeley Lab for 37 years building systems for Scientific Research Amateur Radio Licensed since age 12
 - Session Description
 - We will discuss and demonstrate the free software design program OpenSCAD and how to use it to design useful things that you can print on a 3D Printer for Ham Radio and many other purposes

- **Intro to WinLink** **0900 – 1000** **Seminar Area 2**
 - Speaker Introduction
 - Kevin Hedgepeth/NB7O (Extra Class)
 - Holds an Extra Class Amateur Radio License. He is retired from the City of Coos Bay, Oregon as the IT director for the Public Safety departments there. He implemented 9-1-1 services in Coos County and was the Supervisor of the 9-1-1 Center for its first five years. Kevin implemented the first Laptop based system in Police and Fire vehicles in Oregon. He adapted amateur radio AX.25 radio protocols to public safety services and extended mainframe data to the field using a TCP/IP transport mechanism in 1990.

Kevin taught Computer Science, Amateur Radio, and Sociology classes at the college in Coos Bay from 1987 through 2004 as an adjunct instructor. He is a past SEC, ASEC, and EC for Oregon ARES. Kevin engineered the Oregon ARES Digital Network with internet to amateur VHF radio gateways in 33 out of 36 Oregon counties and 3 statewide HF gateways. Kevin serves as a member of the Winlink Development Team and maintains the Winlink Catalog for Winlink users.

Retired from the US Coast Guard as an Electronics Technician. He received the USCG Commendation Medal for helping develop a manual VHF radio direction finding system using off the shelf TV yagi antennas, a manual rotation system, and a modified military grade VHF transceiver. These direction finding systems were installed at small boat and group stations throughout the 13th Coast Guard District in the early 1970's. After retirement he served for many years as a Communications Unit Leader for Oregon's State Marshal's Office for Wildland fire to Urban Interface. Kevin performs with the Blue Mountain Old Time Fiddlers during his not so spare time.
 - Session Description
 - The Winlink Messaging System is widely used by RV'rs, mariners, Emergency Service Responders, and amateur radio hobbyists. This session is intended to help new Winlink users find the software, install the software, setup the software, and then use the software to send and retrieve messages, NOAA weather forecasts, and Grib forecasts. Experienced users may even learn a trick or two. Hardware options will be available for contrast and comparison of use.

Qfest '20 Wed. 01/22 Presenter Bio and Session Description (continued)

- **HandiHams** **0900 – 1000** **Seminar Area 3**
 - Speaker Introduction
 - Marcia De Runtz/KG6FIX (General Class)
 - Session Description

- **Solar Controllers** **1030 – 1130** **Seminar Area 1**
 - Speaker Introduction
 - Ryan (Blue Sky Energy)
 - Session Description

- **Stop the Bleed** **1030 – 1230** **Seminar Area 2**
 - Speaker Introduction
 - Kathy Van Note/KE8LIN (Technician Class)
 - B.A. in Psychology from Grand Valley State University M.A. in Learning Disabilities from Grand Valley State University Certificate in teaching English as a Second Language from Aquinas College 25 years as a special education teacher, Child Study Coordinator, behavior consultant and autism spectrum disorder consultant Former trainer for Non Violent Crisis Prevention and Intervention (CPI) USCCA Certified Firearms Instructor USCCA Certified First Aid Fundamentals Instructor NRA Certified Range Safety Officer First Care Provider Certified Stop The Bleed Trainer Civilian Emergency Response Team Trained (CERT) Active Shooter Trained Leader - The Well Armed Woman - Grand Rapids Michigan Chapter
 - Session Description
 - Please plan on spending AT LEAST 2.5 hours for this class. Feel free to bring your lunch with you. Depending on the number of participants, could be less time. Participants will learn current “Best Practices” when encountering a person with a life threatening bleed. This includes wound packing, pressure bandaging and tourniquet placement and application. Participants will gain practical application during class. Participants will also receive a certificate of completion providing they stay for the entire presentation.

Qfest '20 Wed. 01/22 Presenter Bio and Session Description (continued)

- **Amateur Radio Direction Finding** **1300 – 1400** **Seminar Area 1**
 - Speaker Introduction
 - David Smith/W6DPS (Extra Class)
 - First licensed as a Novice in July of 1977, and two months later upgraded to General. I upgraded to Extra in 2002. I am mostly interested in building and integrating equipment. I design and build some of my own equipment, along with building kits. I currently most interested in digital modes, both on HF and VHF/UHF. I frequently use APRS equipment to track High Power Rockets, using direction finding as a backup. I teach ham classes and am a VE accredited by ARRL and GLAARG.
 - Session Description
 - Amateur Radio Direction Finding, also known as Fox Hunting, Rabbit Hunting, etc., is a sport that makes use of a practical radio skill; being able to find a transmitter at an unknown location. You also use compass and map reading skills to determine the most efficiently path to find a series of transmitters. In much of the world ARDF is taught in schools and is a highly competitive hobby.

- **Grounding and Bonding** **1300 – 1400** **Seminar Area 2**
 - Speaker Introduction
 - Jack Lunsford/NT7MM(Extra Class)
 - Session Description

- **Basket Weaving** **1300 – 1400** **Games and Crafts Area**
 - Speaker Introduction
 - Marcia De Runtz/ KG6FIX (General Class)
 - Session Description

Qfest '20 Wed. 01/22 Presenter Bio and Session Description (continued)

- **Child Custody/Guardianship** **1430 – 1530** **Seminar Area 1**
 - Speaker Introduction
 - Lynn Conant
 - Lynn Conant is a Nevada licensed attorney who practices exclusively in Family Law. With more than 20 years of experience litigating issues for families, she provides advice and counsel to parents, and in particular to grandparents who need to solidify their legal rights when raising children. Lynn knows that grandparents are the first line of defense when families fail - either from divorce, drugs, mental illness or immaturity
 - Session Description
 - The Age of Grandparents: Children living with grandparents has doubled in the U.S. since 1970. What you need to know. Lynn will provide information on what to look for and what to avoid if you want to become a guardian or custodian of your grandchildren. For grandparents, failure is not an option as it means that children may be placed in harm's way or with a parent who is unable to provide for the child's best interest. This presentation will provide you with a basic working knowledge of how to approach the legal system on behalf of your grandchildren. It is not intended as a substitute for legal advice as Lynn is only licensed to practice law in Nevada.
 -

- **CW: Fun with Dit's and Dah's** **1430 - 1530** **Seminar Area 2**
 - Speaker Introduction
 - Bill Mader/K8TE (Extra Class)
 - Bill Mader, K8TE, holds an Extra Class license (since 1976) and was first licensed as a Novice in Syracuse NY at age 14 as WV2RBF. He upgraded to General later that year after operating HK4YU in Medellin Columbia. Other calls include WA8WWM, KZ5WA, and DA2OI. Bill's primary ham radio interests are DXing, Contesting, and all their associated aspects. He also held First Class Radiotelephone and Second-Class Radio Telegraph licenses, both with radar endorsements. He was reappointed ARRL Section Manager for New Mexico.

Bill is the Secretary, a former President, Activities Manager, and the Communications Officer of the Albuquerque DX Association. He has attended numerous Contest and DX Universities in Dayton, Visalia, Hartford CT, and Estes Park, CO. Bill is now retired having served 26 years in the USAF, nine years each with Radio Shack and Citadel/Cumulus Broadcasting, along with other stints in IT, electronics, and his last job—a consultant on board oil rigs/platforms in the Gulf of Mexico where he occasionally operated QRP HF. Bill has been a guest presenter at the IDXC in Visalia, Pacificon, the Rocky Mountain Division Convention, Duke City Hamfest, Ham-Com, DX University, and numerous club meetings.
 - Session Description
 - Think CW is too hard to learn? Think you're too old or don't have time to learn it? Why should, or does anyone still, use CW? After a traumatic experience with the General CW test in 1960, Bill, K8TE, swore he would never take another CW exam, much less use it after passing it (barely). Yet, the offer of a new callsign and then chasing DX after 40+ years, he finally relented and now makes more CW contacts than with any other mode. Come see why CW isn't that hard and why it's worth using. It's more fun than you can imagine!

Qfest '20 Wed. 01/22 Presenter Bio and Session Description (continued)

- **Activation Field Trip Cunningham Peak (All day event)**
 - Speaker Introduction
 - Javier Beltran/K6TNT (General Class)
 - Javi has enjoyed SOTA for the last three years and has successfully activated eighteen summits and earned 150 points in the Activator Section. His goal is to earn the SOTA Mountain Goat award after 1000 activator points.
 - Session Description
 - SOTA activation of nearby Cunningham Mountain. “The challenge of successfully deploying your rig in an outdoor environment is a sweet relief and a feat that will have you wanting more.”

- **Amateur Radio License Testing & commercial GROL (late morning event)**
 - Speaker Introduction
 - Gordon West/WB6NOA (Extra Class)
 - Session Description

- **Solar Walkabout (Afternoon event)**
 - Speaker Introduction
 - Frank Fox/AF0XX (Extra Class)
 - Session Description

- **Music Jam (Afternoon event)**
 - Speaker Introduction
 - Russell Decker/KB6YAF (General Class)
 - Kevin Hedgepeth/NB7O (Extra Class)
 - Michelle Hedgepeth/K7MGO (General Class)
 - Session Description
 - A chance for Qfest attendees to practice playing their music instruments, learn about music "jam" etiquette, gain encouragement to participate in the Qfest Hootenany, and have fun with other participants with an interest in music. Players and listeners are all invited to attend.

- **Land Ops Trail Ride (Evening event)**
 - Speaker Introduction
 - Chris Doering/KI6QBM (General Class)
 - Session Description

Qfest '20 Thu. 01/23 Presenter Bio and Session Description

- **Grounding and Bonding (Show ‘n Tell) 0900 – 1000 Seminar Area 1**
 - Speaker Introduction
 - Jack Lunsford/NT7MM (Extra Class)
 - Session Description

- **Accessories that help in HF Shack RFI Mitigation 0900 – 1000 Seminar Area 2**
 - Speaker Introduction
 - Bill Mader/K8TE (Extra Class)
 - Bill Mader, K8TE, holds an Extra Class license (since 1976) and was first licensed as a Novice in Syracuse NY at age 14 as WV2RBF. He upgraded to General later that year after operating HK4YU in Medellin Columbia. Other calls include WA8WWM, KZ5WA, and DA2OI. Bill’s primary ham radio interests are DXing, Contesting, and all their associated aspects. He also held First Class Radiotelephone and Second-Class Radio Telegraph licenses, both with radar endorsements. He was reappointed ARRL Section Manager for New Mexico.

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 - Session Description
 - Whether your computer locks up, your landline rings when you key up, or the noise you have across the HF bands seems unbearable, there are ways and tools for mitigating Radio Frequency Interference (RFI). Join Bill, K8TE, as he explores those tools and means to reduce RFI-caused issues in your shack, whether at home or in your RV. Every reduction in RFI means more contacts and a more enjoyable HF radio experience. Come learn about successful RFI mitigation that can bring more enjoyment and pleasure to your HF operating experience.

- **RV Refrigerators 1030 – 1130 Seminar Area 1**
 - Speaker Introduction
 - Paul and Mao Unmack
 - Paul and Mao Unmack are both Mechanical Engineers. Mao specializes in the design of ammonia pressure vessels, and welding engineering, your cooling unit is a welded ammonia pressure vessel. Paul specializes in controls systems, and patented the solution to the Dometic and Norcold failure and safety issues.
 - Session Description
 - RV Refrigerator Safety, Troubleshooting, and Theory of Operation

Qfest '20 Thu. 01/23 Presenter Bio and Session Description (continued)

- **Winlink Updates** **1030 – 1130** **Seminar Area 1**
 - **Speaker Introduction**
 - Kevin Hedgepeth/NB7O (Extra Class)
 - Holds an Extra Class Amateur Radio License. He is retired from the City of Coos Bay, Oregon as the IT director for the Public Safety departments there. He implemented 9-1-1 services in Coos County and was the Supervisor of the 9-1-1 Center for its first five years. Kevin implemented the first Laptop based system in Police and Fire vehicles in Oregon. He adapted amateur radio AX.25 radio protocols to public safety services and extended mainframe data to the field using a TCP/IP transport mechanism in 1990.

Kevin taught Computer Science, Amateur Radio, and Sociology classes at the college in Coos Bay from 1987 through 2004 as an adjunct instructor. He is a past SEC, ASEC, and EC for Oregon ARES. Kevin engineered the Oregon ARES Digital Network with internet to amateur VHF radio gateways in 33 out of 36 Oregon counties and 3 statewide HF gateways. Kevin serves as a member of the Winlink Development Team and maintains the Winlink Catalog for Winlink users.

Retired from the US Coast Guard as an Electronics Technician. He received the USCG Commendation Medal for helping develop a manual VHF radio direction finding system using off the shelf TV yagi antennas, a manual rotation system, and a modified military grade VHF transceiver. These direction finding systems were installed at small boat and group stations throughout the 13th Coast Guard District in the early 1970's. After retirement he served for many years as a Communications Unit Leader for Oregon's State Marshal's Office for Wildland fire to Urban Interface. Kevin performs with the Blue Mountain Old Time Fiddlers during his not so spare time.
 - **Session Description**
 - The Winlink Messaging System is widely used by RV'rs, mariners, Emergency Service Responders, and amateur radio hobbyists. The System is constantly being upgraded to meet requests of the users. This session will cover the projected changes that will occur in the near future or that have changed since Qfest 2019. If time permits Kevin will answer questions about the operation of the Winlink Network and help users with its use.

- **From DIY to Factory Electric Bikes** **1300 – 1400** **Seminar Area 1**
 - **Speaker Introduction**
 - Alan Biocca/W6AKB (Extra Class)
 - Graduated from UC Berkeley in Electronics and Software Engineering Worked at Lawrence Berkeley Lab for 37 years building systems for Scientific Research
 - **Session Description**
 - We will discuss the various types of Electric Bike systems and how they compare, how to choose them, whether to upgrade your own bike or buy a new already made Electric Bicycle and DIY your own upgrade.

Qfest '20 Thu. 01/23 Presenter Bio and Session Description (continued)

- **Advanced Genealogy** **1230 – 1400** **Seminar Area 2**
 - Speaker Introduction
 - Michelle Hedgepeth, K7MGO, holds a General Amateur Radio license and lives in Hermiston, Oregon. Married to Kevin, NB7O. She retired from 3 different careers. She was Field Director for a youth organization for 15 years, was Superintendent and the Lead Teacher at a Christian Pre-School and retired as Office Manager and lead exam room technician for a doctor's office in Coos Bay, Oregon. Michelle was awarded the Oregon Paraoptometric Technician of the Year Award in 2006. After retirement Michelle became a "full time" volunteer!!

Michelle has been a researcher for a Professional Genealogy Society, regularly presents at the Coos County Genealogical Society in Oregon, Hermiston Genealogy Center in Hermiston, Oregon and the Tri-Cities Genealogical Society in Tri-Cities, Washington. She regularly helps individuals and researchers who are "stuck" in the genealogy researches.

In her spare time Michelle has raced sailboats in Oregon and Washington, Cruised on sailboats in Oregon, Washington, and Canada; served as state and county Training Officer for Oregon ARES, and performs with the Blue Mountain Old Time Fiddlers Association of Oregon. Michelle attends a Lutheran Church in Hermiston and is currently serving as Council President and helps lead a morning bible study, a monthly book club, and a monthly "Pub talk" about things related to religious topics.
 - Session Description
 - Touching on a variety of topics related to Genealogy Michelle will talk about topics that the attendees would like to discuss. Topics may include internet genealogy, DNA genealogy, the five things needed to document a family member (contrary to the TV ad a "leaf" is not enough), DAR requirements, how to get "unstuck", internet based resources, and etc. Drop in and find out how exciting your family history can be.

- **Hams of YouTube** **1430 – 1530** **Seminar Area 1**
 - Speaker Introduction
 - Kevin Loughin/KB9RLW (Extra Class)
 - Session Description

- **Designing with OpenSCAD for 3D Printing** **1430 – 1530** **Seminar Area 2**
 - Speaker Introduction
 - Alan Biocca/W6AKB (Extra Class)
 - Graduated from UC Berkeley in Electronics and Software Engineering Worked at Lawrence Berkeley Lab for 37 years building systems for Scientific Research
 - Session Description
 - We will discuss and demonstrate the free software design program OpenSCAD and how to use it to design useful things that you can print on a 3D Printer for Ham Radio and many other purposes.

Qfest '20 Thu. 01/23 Presenter Bio and Session Description (continued)

- **All About L.E.D.'s** **1600 – 1645** **Seminar Area 3**
 - Speaker Introduction
 - Roger Deane/KD6CNY (General Class)
 - Session Description

- **Hootenanny** **1700 – 1830** **Main Fire Ring**
 - Speaker Introduction
 - Russell Decker/KB6YAF (General Class)
 - Kevin Hedgepeth/NB7O (Extra Class)
 - Michelle Hedgepeth/K7MGO (General Class)
 - Session Description
 - Bring your musical instruments and join in our Hootenanny or bring dinner and your chair and be entertained by the near professional musicians. You are encouraged to download the lyrics to the songs that will be sung and sing along. Lyrics are found in the document section of Quartzfest.org.

- **Goldstone/Deep Space Network** **1845 – 1945** **Seminar Area 3**
 - Speaker Introduction
 - Jeff La Grange/AG6MN (Extra Class)
 - Session Description

- **Off-Road Trip** **(All Day Event)**
 - Speaker Introduction
 - Frank Engstrom/KB7IQ (Extra Class)
 - Session Description

Qfest '20 Fri. 01/24 Presenter Bio and Session Description

- **ARRL Forum (AZ Section Manager) 0900 – 1000 Seminar Area 1**
 - Speaker Introduction
 - Rick Paquette/W7RAP (Extra Class)
 - ARRL-Arizona Section Manager
 - Session Description
 - Rick Paquette (W7RAP) , Our ARRL Arizona section Manager , will present the status of Amateur Radio here in Arizona and at ARRL, Recent events and activities will be highlighted and developments within the state and within ARRL nationally will be discussed. This is a forum, so be prepared to ask questions and give your opinions as to where Amateur Radio should be headed. All Hams are invited to attend.

- **ARRL Forum (SW Division Director) 1030 – 1130 Seminar Area 1**
 - Speaker Introduction
 - Dick Norton/N6AA (Extra Class)
 - Director of the Southwestern Division of the ARRL
 - Session Description
 - Dick will be just back from the January Board of Director's Meeting in Newington CT, and always has important updates on activities and directions the League is taking. This is a forum, and Dick will discuss and answer questions about where we are and where we would like to see Amateur Radio in the future. Everyone is invited to sit in and ask questions.

- **Pneumatic Antenna Launchers 1300 – 1400 Seminar Area 1**
 - Speaker Introduction
 - Alan Biocca/W6AKB (Extra Class)
 - Graduated from UC Berkeley in Electronics and Software Engineering. Worked at Lawrence Berkeley Lab for 37 years building systems for Scientific Research. Amateur Radio Licensed since age 12
 - Session Description
 - We will briefly talk about the development of Pneumatic Antenna Launchers, discuss how to build and use them and safely get lines high in trees for antenna work.

Qfest '20 Fri. 01/24 Presenter Bio and Session Description (continued)

- **HF Propagation Predicting for 2020** **1300 – 1400** **Seminar Area 2**
 - Speaker Introduction
 - Bill Mader/K8TE (Extra Class)
 - Bill Mader, K8TE, holds an Extra Class license (since 1976) and was first licensed as a Novice in Syracuse NY at age 14 as WV2RBF. He upgraded to General later that year after operating HK4YU in Medellín Columbia. Other calls include WA8WWM, KZ5WA, and DA2OI. Bill's primary ham radio interests are DXing, Contesting, and all their associated aspects. He also held First Class Radiotelephone and Second-Class Radio Telegraph licenses, both with radar endorsements. He was reappointed ARRL Section Manager for New Mexico.

Bill is the Secretary, a former President, Activities Manager, and the Communications Officer of the Albuquerque DX Association. He has attended numerous Contest and DX Universities in Dayton, Visalia, Hartford CT, and Estes Park, CO. Bill is now retired having served 26 years in the USAF, nine years each with Radio Shack and Citadel/Cumulus Broadcasting, along with other stints in IT, electronics, and his last job—a consultant on board oil rigs/platforms in the Gulf of Mexico where he occasionally operated QRP HF. Bill has been a guest presenter at the IDXC in Visalia, Pacificon, the Rocky Mountain Division Convention, Duke City Hamfest, Ham-Com, DX University, and numerous club meetings.

- Session Description
 - Have you noticed pictures of the Sun recently and noted the typical weekly sunspot reports of zero? Have you heard HF is dead and maybe HF propagation may not rise from the ashes? Neither is true and hope is around the corner as we transition to Solar Cycle 25. Knowing what is really happening with HF propagation and what techniques we can use to work around current conditions can give you an entirely different perspective on HF operating. Join Bill, K8TE, as he delves into Cycle 25 predictions, current conditions, and how to use that knowledge to your advantage.
- **Survival** **1430 – 1530** **Seminar Area 1**
 - Speaker Introduction
 - John Foster/N6FVY (Extra Class)
 - Grace Salley-Foster/W6ULW (Extra Class)
 - John Foster AKA Tom - I joined the Navy on the buddy system with the purpose of staying out of the Army and Viet Nam. Boot Camp, Electronics A school, C school in counter measures, and off to Nam as a CTM.

After the Navy (1969), I got my AA in Electronics at Palomar College, and licensed as a General. It was also where I met Grace. I became the president of the campus Mountaineering Club. Grace joined me in many of the club adventures and we became very involved in backpacking and camping.

I changed my major to Natural Resources Management with a concentration in wildlife management. Graduating with my BS in 1974. My first job was working for the Department of Fish and Game on the mountain lion project. I had the opportunity to track, tranquilize, and attach radio telemetry collars to lions within the study area. Again, Grace who was also working for the California Department of Fish and Game, was by my side handling dogs, capture gear, and spending nights in the woods.

Qfest '20 Fri. 01/24 Presenter Bio and Session Description (continued)

In 1980, I was offered a position with the Department of Fish and Game as a Game Warden. I accepted and once again worked in the outdoors. My position required us to move, along with our new daughter to San Diego County. As a Game Warden, I became involved in teaching Hunter Education, along with teaching outdoor skills in a 4-H backpacking and survival project. I also got involved in my first search and rescue of a lost child. The search and rescue experience brought a whole new awareness in outdoor survival skills and became part of my next forty years of teaching programs to 4-H, boy scouts, hunter education, and CERT. During my career as a Game Warden I made use of my tracking skills in both investigations and locating lost individuals that for various reasons did not make it back to camp.

Amateur radio was always part of my life from my novice in 1961 to my extra class in 2006. I became a VE and am currently involved in teaching licensing classes. Over the years I have introduced amateur radio to the many that have joined our outdoor adventure trips. Grace received her Extra Class license in 2011, and shortly after her VE. We are both involved in VE sessions several times a year.

○ Session Description

- At Quartzfest 2019, Grace W6ULW, Floyd KK6DMI, and I introduced our first seminar on survival and we're pleased to present once again in 2020. The seminar has nothing to do with survivalists and the SHTF topics, but more as is taught in Boy Scouts "Be Prepared". In 2019 we covered planning for outdoor adventures along with items included in Go-Kits.

This year we want to expand on the planning concept along with situational awareness in planning. Examples of good and poor planning will be presented and discussed. We will talk about the use of map and compass and the important role they play in outdoor treks. We will show how to find approximate North, South, East, West directions without a compass and how to orient a map to these directions. This process will allow a person to identify notable geologic landmarks. We will demonstrate how to locate your position on a map by use of a GPS or compass.

As humans, we are part of the animal kingdom. We need to supply ourselves with the basics of animal habitat to survive. Water, Food, and shelter. We either carry the items or have to find them in the outdoors. Let's try to make this a group discussion because I know you all have some ideas and a wealth of experience.

Finally, we will talk about signaling and our ability to get outside help.

- **APRS Practical Uses** **1430 – 1530** **Seminar Area 1**
 - Speaker Introduction
 - David Smith/W6DPS (Extra Class)
 - First licensed as a Novice in July of 1977, and two months later upgraded to General. I upgraded to Extra in 2002. I am mostly interested in building and integrating equipment. I design and build some of my own equipment, along with building kits. I currently most interested in digital modes, both on HF and VHF/UHF. I frequently use APRS equipment to track High Power Rockets, using direction finding as a backup. I teach ham classes and am a VE accredited by ARRL and GLAARG

Qfest '20 Fri. 01/24 Presenter Bio and Session Description (continued)

- Session Description.
 - Amateur Packet Reporting System is a digital communication protocol based on older AX.25 packet radio. Specialized information, such as weather conditions or GPS location data, are encoded and transmitted as packets. these packets can be decoded by a variety of equipment, as well as collected and made available on the internet. APRS can be used to track and communicate with vehicles, such as 4x4s on an off road run, a group of hikers walking together, or observer vehicles supporting a long distance race. A network of weather stations provides real time weather data for most of the US, which is also available on the internet.

- **The Well-Armed Woman** **1430 – 1530** **Game and Craft Area**
 - Speaker Introduction
 - Kathy Van Note/KE8LIN (Technician Class)
 - B.A. in Psychology from Grand Valley State University M.A. in Learning Disabilities from Grand Valley State University Certificate in teaching English as a Second Language from Aquinas College 25 years as a special education teacher, Child Study Coordinator, behavior consultant and autism spectrum disorder consultant Former trainer for Non Violent Crisis Prevention and Intervention (CPI) USCCA Certified Firearms Instructor USCCA Certified First Aid Fundamentals Instructor NRA Certified Range Safety Officer First Care Provider Certified Stop The Bleed Trainer Civilian Emergency Response Team Trained (CERT) Active Shooter Trained Leader - The Well Armed Woman - Grand Rapids Michigan Chapter
 - Session Description
 - The Well Armed Woman Shooting Chapters is an organization of more than 300 local chapters across the nation (12,000 members) focused on introducing women to the world of firearms. Our mission is to Educate, Equip, and Empower women as they strive to make important personal choices in their lives. We are women helping women discover our passion, develop our skills and build new relationships within our communities. New or experience, young or mature, interested in protection or just for fun...come join us!!

Qfest '20 Fri. 01/24 Presenter Bio and Session Description (continued)

- **Antenna Walkabout** **1300 – 1500** **Meet near the Welcome Tent**
 - **Speaker Introduction**
 - Neil Fullagar/K6NCX (Generak Class)
 - A retired preschool teacher and nanny as well as 25-year volunteer with the Alameda County (CA) Sheriff's Office, Neil now travels with spouse Joanne, KF6AFY in a 2016 Thor ACE with HF, 2m, and 70cm aboard. He's always looking for better mobile antenna solutions.
 - **Session Description**
 - We will walk to pre-selected sites to look at interesting, clever, and/or amazing antenna installations. HF, VHF, UHF all may be included. Some may be fully usable while underway, and others definitely not. Hams whose installations we visit will be invited to tell us about them. Wear comfortable walking shoes, since the interesting antenna installations are likely to be spread all over QuartzFest! Since the group is likely to be large, bring a handheld to be able to hear all about what we are seeing.

Qfest '20 Sat. 01/25 Presenter Bio and Session Description

- **Yard Sale** **sun-up 'til 11:am** **Along the Quartzfest roadways**

- **Amateur Radio Exams** **1000 – 1300** **Location TBA**
 - **Speaker Introduction**
 - Rick Paquette/W7RAP (Extra Class)
 - ARRL-Arizona Section Manager
 - **Session Description**
 - Saturday's test session will be held starting at 10 AM. All classes will be tested. Pre-registration is not required. The fee for ARRL tests is \$15 in Cash or check. Bring a photo ID and go online ahead of time to register for your Federal Registration Number. If you are already licensed, bring copy of your license to present to the examiners. Bring a chair so you can study and also if you plan to stay after the test, Tables chairs pencils and pens will be provided. Attending the "How To Pass The Ham Exams" session on Monday is a good way to prepare for the VE Exams.

- **Closing Ceremony** **1400 – Close** **Main Fire Ring**
 - **Speaker Introduction**
 - Kristyn Weed/KR1SS (Advanced Class)
 - **Session Description**
 - Our Grand Prize this year is an ICOM IC-705 and our second Grand Prize is a Kenwood TH-D74A handheld. As with all prize drawings, you must be present to win. Many other nice prizes will be given to attendees at this session. Be certain to get your grand prize tickets no later than Thursday to be eligible to win these prizes.