Sunday, May 21st, 2023

TIME	ROOM	FORUM
9:15 AM to 10:15 AM	Room 1	**HF Digital Voice and Digital Mode VarAC**
		Moderator: Mel Whitten, K0PFX
		Speakers: Mooner Salem, K6AQ and Mike Weilbacher, KB0FX
		Digital voice is commonly used on amateur radio, but did you know that you can use it on HF as well as VHF and UHF using equipment you already own? Come learn more about how you can get started with FreeDV, an exciting up and coming digital voice mode designed for use on HF. 'New Digital Mode VarAC'. Mike has been experimenting with SDR technology and digital modes for years. Mike will discuss a new digital mode known as VarAC. Its goal is to promote having "Real" QSOes.
9:15 AM to 10:15 AM	Room 2	**Lightning and Grounding**
		Moderator: Jim Bacher, WB8VSU
		Speaker: Ward Silver, N0AX
		First part will be Jim Bacher WB8VSU and he will focus on what lightning characteristics are and external building bonding and grounding. Second Part is Ward Silver N0AX and he will focus on the in-shack bonding systems.
9:15 AM to 10:15 AM	Room 3	**Voice Control of Amateur Radio Systems & AI Voice Assistants**
		Moderator: William Franzin, VE4VR
		This talk will cover various methods of applying voice control to existing amateur radio systems and potential new areas of development that would benefit the amateur radio community. Let's take the lead and jump ahead of consumer tech. Many of us have become familiar with Apple's Siri, Amazon Alexa, or Google Assistant. These widely adopted voice assistant products have revolutionized how consumers interact with mobile devices. Amateur radio operators have been talking to each other for a very long time. Now it's time to stop pressing buttons and start talking to our radios, our repeaters, and give our infrastructure an upgrade.
9:15 AM to 10:15 AM	Room 4	**Techniques of the Best Operators**
		Moderator: Mitch Stern, W1SJ
		Why is it that everyone else works all the juicy DX and you get shut out? It is likely that they are super operator! We will talk about how to bring up your skill level so that you are an excellent operator working contests, chasing DX, or our highest calling - providing emergency communications.
10:30 AM to 11:30 AM	Room 1	**How to get started with Digital Modes**
		Moderator: Sholto Fisher, K7TMG
		Explaining the basics of digital modes, necessary hardware, software and configuration.
10:30 AM to 11:30 AM	Room 2	**Solar Power for Portable Operations**
		Moderator: John Leonardelli, VE3IPS
		Easy to understand How to Solar Power your portable and field operations. The 5 key components will be explained with best of breed product choices. Three use cases will be explored with low QRP, Mid Power and Field Day set ups. After this presentation, you will be able to choose the right sizing for the components that you require for your operations and enjoy operating Off the Grid.
10:30 AM to 11:30 AM	Room 3	**SWR Meters Make You Stupid**
		Moderator: Eric Nichols, KL7AJ
		For decades, there has been a lot of misinformation propagated and shared with respect to transmission lines. Based and expanded upon Walt Maxwell, W2DU's classic "Reflections" series, SWR Meters Make You Stupid goes a few steps farther, with a detailed description of the Vector Network Analyzer (VNA), a wonderful device that was not available to hams during Walt's lifetime. This talk will use minimal math, and I will introduce my simplified "Fat Purple Crayon" (FPC) Smith Chart, which takes all the dread out of the Smith Chart.
10:30 AM to 11:30 AM	Room 4	**DMR: Current and Future State**
		Moderator: Matt Genelin, N0YNT
		Digital Mobile Radio (DMR) has become a very popular digital mode on VHF/UHF. In this talk (including time for Q and A) Matt Genelin, N0YNT, will explain the current 'peer to peer' state of DMR in a post-DMRx world. Influences of major networks like Brandmeister and regionalization of independent cBridge networks will also be explained. There are many ways to make DMR radio easier for newcomers to continue to grow this digital mode; a few future-looking ideas will be outlined.