



5th ANNUAL TECHCON

West Central Florida Section Technical Conference

**SATURDAY FEBRUARY 23, 2019
LIST OF PRESENTATIONS**

Revision 3.0 - 2/14/19

THE ARRL RF SAFETY COMMITTEE - KAI SIWIAK KE4PT QEX EDITOR, QST CONTRIBUTING EDITOR.

Who are the RFSC and what do they do? When does RF exposure affect you? Where are the exposure dangers? Congress mandated, and in August 1996 the FCC announced new rules governing RF Exposure. The ARRL petitioned, and the FCC extended the effective rule date to Jan 1, 1998. The RF Safety Committee was formed in 1998 to address this new compliance burden on Radio Amateurs, and to monitor and participate in scientific studies and committees. The RFSC Reports to the ARRL Board of Directors twice a year. Kai Siwiak, KE4PT will explain the functions of the RFSC.

PROPOSED DXCC RULE CHANGE - KAI SIWIAK KE4PT QEX EDITOR, QST CONTRIBUTING EDITOR.

DXCC Section I Rule 8 mandates that all stations contacted must be "land stations". Contacts with ships and boats, anchored or underway, and airborne aircraft, cannot be counted. The reason is rooted in past abuses related to proving one's location. The solution is rooted in secure modern location technology. The change proposed by the SFDXA would allow shipboard operation, either anchored or underway, that are located within the political confines of a DXCC entity. Unambiguous secure proof of location is available via Automatic Identification System (AIS) or Satellite-AIS systems. Result will increase operator safety, decrease threat to life and safety at difficult locations, and increase accessibility to rare locations currently under government restrictions.

USING TECHNOLOGY FOR YOUR PUBLIC SERVICE EVENT: MIKE BREESE W2YS - ARRL ASSISTANT SECTION MANAGER.

Mike Bresse W2YS will show you how various digital communications technology, both amateur and commercial based, to enhance your next public service event. Mike will illustrate this by showing how these technologies are used to support the Bike MS Citrus Tour in recent years and what is new this year.

HRD - HAM RADIO DELUXE: KEVIN YOUNG KC7FPF.

Kevin Young KC7FPF will do an overview of Ham Radio Deluxe which is a software suite that allows you to control your radio with the following: Rig Control, Logging, and Digital Master which allows you to operate PSK, RTTY, CW, Satellite Tracking, and Rotor Control.

INTRODUCTION TO THE RASPBERRY PI - DARRELL DAVIS KT4WX.

Darrell Davis KT4WX will show you what the Raspberry PI is and a basic overview of the Raspberry PI and products currently available. At the end of the presentation, you will be shown how to get a distribution of Raspbian Linux up and running on the Raspberry PI for the first time.



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MULTIPLE USES OF THE RASPBERRY PI IN EMERGENCY COMMUNICATIONS - GORDON GIBBY KX4Z

Gordon Gibby KX4Z will show us how to use the Raspberry PI in a number of applications in emergency communications including (1) Shelter WIFI Bulletin System Communicating Critical Information Delivered by Ham Radio; (2) VHF Packet WINLINK Gateway Moving Traffic from a 4000 square mile area to an HF Hybrid (Forwarding) WINLINK Gateway

TOOLS AND TEST GEAR / MORE STUFF FOR THE WORKBENCH: GEOFF HAINES N1GY - ARRL TECHNICAL COORDINATOR

Geoff Haines N1GY will show you what you need to do to setup your workbench with the proper tools and test equipment for project and follow up with some nice accessories for your workbench to make life on the workbench easier and more comfortable.

PICAXE JUMP START: MIKE HEMBREY KV0OOM - ARRL TECHNICAL SPECIALIST

Mike Hembrey KV0OOM will show you about how to start using the PICAXE Microcontroller and will end with a demonstration of a PICAXE based project he developed.

BUILDING AN HF RADIO FROM SURPLUS PARTS - MARTIN MACHADO KN4SGL

Martin Machado KN4SGL will show us how he built a totally homebrew HF transceiver from surplus parts that he found. However, Martin did this while living in Cuba and he will actually have the radio with him for you to see.

PROPER TRANSMIT AUDIO LEVELS ON HF - LU ROMERO W4LT

Lu Romero W4LT will show you in this presentation how to adjust your transmit audio levels on HF so you will not annoy your neighbors on the HF spectrum and your station will operate efficiently.

THE INTERNET OF THINGS AND JAVASCRIPT -

JON PELLANT W1JP - ARRL TECHNICAL SPECIALIST

Jon Pellant W1JP will introduce you to the concept of the "Internet of Things" or IoT as it is called and will show you some of the techniques used in getting your devices hooked up to the Internet.

RAPIDFIRE SLOTS - These are 15 minute presentations in one timeslot:

- **Lee Bolineau KX4TT** - 6 Meter Propagation Anomalies
- **Mike Douglas W4MDD** – **ARRL Technical Specialist**
Yaesu System Fusion tips and tricks.
- **Mike Hembrey KV0OOM** - **ARRL Technical Specialist**
Another PICAXE Project Demonstration.