

Back to Basics and Future of Ham Radio

MARTIN BUEHRING – KB4MG – JANUARY 2021

Back to Basics Theme in 2021

- Look at as many aspects of the hobby that we can cover in one year
- Explore areas of the hobby you may not have knowledge of or even knew existed
- Try to create some hand-on opportunities at least twice during the year
- Help people who want to advance in licensing
- Try to incorporate demonstrations where possible
- Change up the format that may include panel discussions or round tables
- Encourage more participation

Club Education Goals in 2021

- Level the field for both new and experienced users – we can all learn something
- Shared knowledge of the group – we all have something to contribute and gain new knowledge every day
- Raise the level of expertise in the club
- Expand your horizons about what you are capable of doing
- Overcoming fears you have about certain aspects of the hobby
- Increasing your enjoyment and enthusiasm for this great hobby called Amateur Radio



Proposed Agendas - 2021

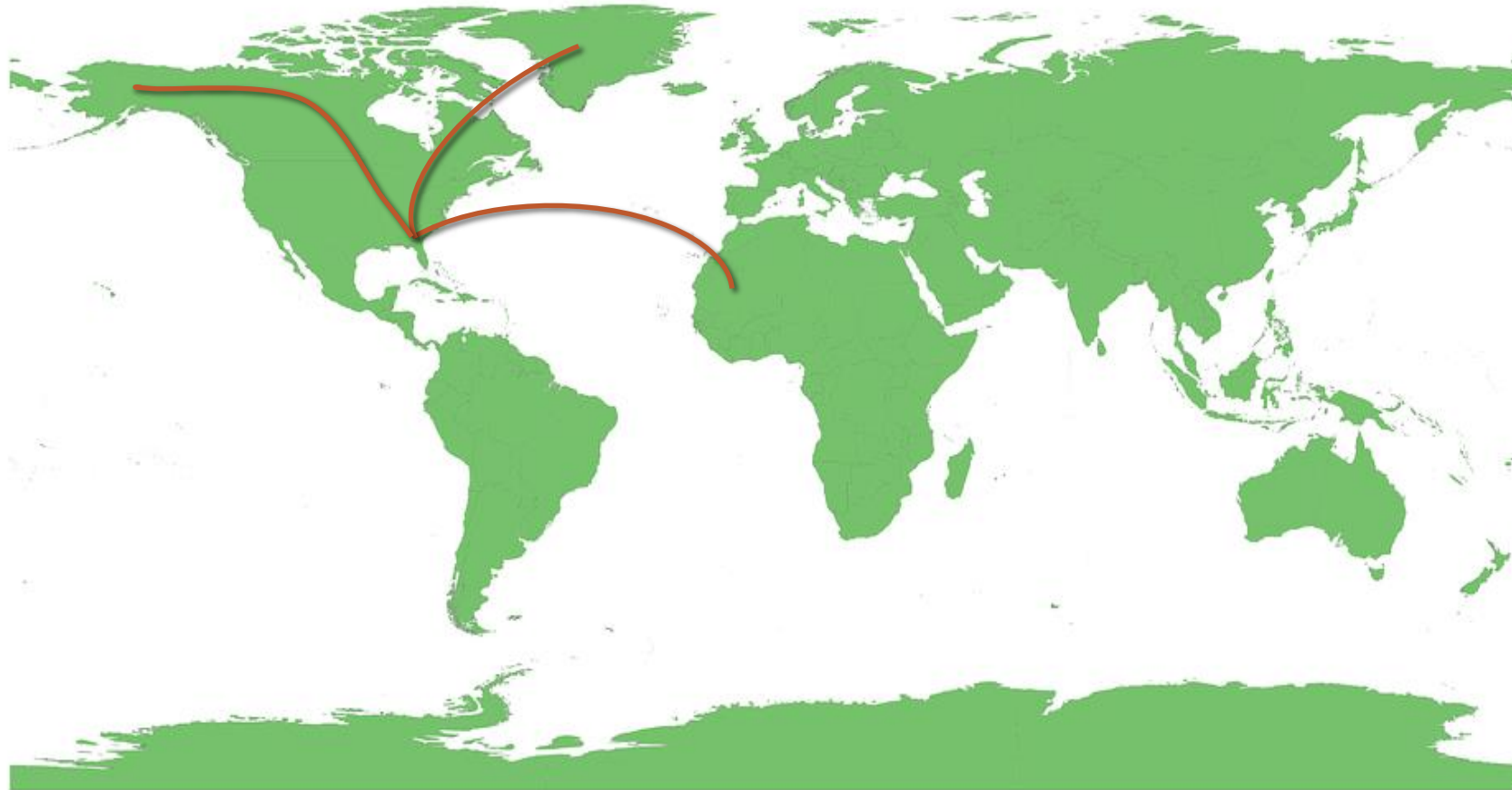
Month	Topic
January	Future of Ham Radio
February	Station Operating Skills
March	Programming Radios
April	Solving Common Issues
May	Field Day skills training
June	Field Day Workshop

Month	Topic
July	ARES Training - basics
August	Satellites
September	Secrets of the Masters - Panel
October	Portable Operating – SOTA, POTA
November	Computers in the Shack
December	Annual Christmas Celebration

Field Day 2021

June 26-27, 2021

What can you do with Ham Radio?



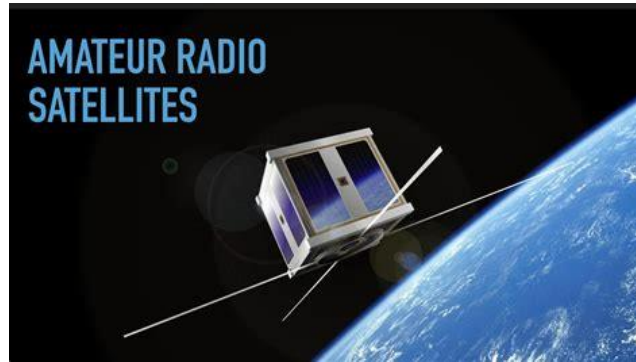
What is the future of Ham Radio?

- Hobby is alive and well with new hams joining all the time. We now have 71 paid members
- Lot's of interest in uses for emergency communications in times of disaster and infrastructure outages.
- There are vast numbers of things you can do in this hobby. This presentation will highlight some of these, but the possibilities are endless.
- What excites you about the hobby? How will you build on that interest in 2021?
- What basics do you need to get or refresh?

License Class ▲	Total ▼
Technician	423263
General	190411
Extra	156701
Advanced	39255
Not Listed	12540
Novice	8336

VHF/UHF Operating

- Repeaters and local simplex
 - Echolink
- VHF/UHF SSB and CW
- Working amateur satellites
- Experimenting with microwaves
- EME (Moon bounce)
- Meteor scatter
- DMR , DSTAR & hotspots
- ARES participation



Extra

General

Technician

HF Operating

- Casual operating on all bands for your class of license
- Working DX (distance) stations
- Participating in HF Nets
- QRP HF
- Special Events Stations
- Contesting
- Go outside the shack – SOTA, POTA
- Experimenting with various modes
 - Learn CW
 - Try digital modes







Ham Radio POTA Activation

Bigelow Hollow State Park, CT (K-1648)

Basic Skills

- Programming your HT or other radios
- Designing and setting up a station
- On the air etiquette and operating norms
- Putting up an antenna – what will work for your situation?
 - Troubleshooting issues with antennas
 - Understanding SWR and what's important
- Connecting computers and radios
- How to take a station portable – POTA, SOTA, Field Day, etc
- What are the secrets of the best operators?



Advanced Skills

- Building (also modeling and designing) of antennas
- Kit building and home brewing your own hardware
- Designing and deploying repeaters
- Leading and ARES team or deployment
- Contesting for awards
- Restoring vintage ham radio gear
- EME –Earth Moon Earth station design and setup
- Get your Amateur Extra Class license
- Be an instructor for license upgrades



How does a club help?

- Elmers – volunteers to help you with a particular interest or problem you may be having with your station – list is at <https://www.wx4car.org/elmers>
- We deliver monthly training and have a library of past presentation – see website
- We have occasional activities outside regular meetings. (in 2020 we a J-pole antenna project)
 - 2021 – 40 meter dipole build project
- Field Day and the meetings prior are designed to build skills for this event. On Field day you can try those skill in a live event.
- Volunteers in the club are available after monthly meetings to help with various things:
 - Radio programming – HT's or even mobile rigs
 - Deeper dives in technical topics – maybe prep work for General or Extra Class exams
 - Operating skills and learning, such as a CW class

Serve your community



www.cherokee-ares.org

- Amateur Radio Emergency Service® (ARES) consists of licensed amateurs who have voluntarily registered their qualifications and equipment, with their local ARES leadership, for communications duty in the public service when disaster strikes.
- It requires training and commitment, but can be really fulfilling work that uses your skills
- Club supports a few activities during the year where YOU can be involved:
 - Georgia Death Race
 - Georgia Jewel
 - Participation in the GSA SET (Simulated Emergency Test)



Sean Blanton

The Future of Ham Radio is YOU

- Club participation is our best way to keep the hobby going and to draw in new people
- Volunteer for something – especially for Field Day
- We need people in ARES! Contact Jim Millsap – K9APD if need to know more
- Start a special interest group within the club – possible ideas
 - Builder and Makers
 - Contesters
 - Portable operating – SOTA, POTA, or just setting up at the park
 - Satellites – group activities, AMSAT participation, etc
 - Vintage Gear restoration
 - Note – we can support sub-groups on the groups.io so we can exchange info within special groups

CHEROKEE AMATEUR RADIO SOCIETY



Thanks and please get involved!