


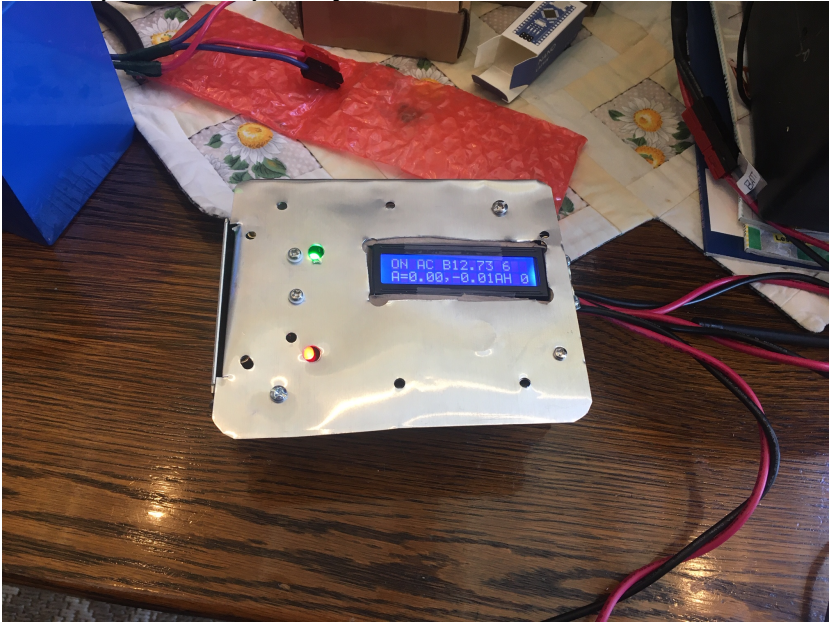
North Florida Amateur Radio Club / AlachuaARES(r) – AUGUST MEETING
Tentative Program, Wednesday AUGUST 12, 2020 – ZOOM
Version 1.0 Sunday August 9 2020



<https://us04web.zoom.us/j/964853731>

Jeff is handling the ZOOM-- click on the link above, or on our web page. .

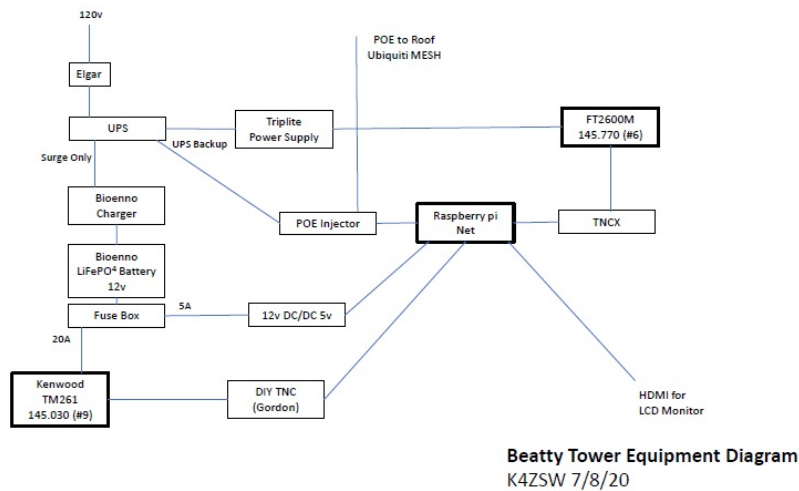
Many thanks to GARS for letting us use their account.

Time	Item	Presenter								
6:30 PM	Informal Get to see folks and get your ZOOM working	Jeff Capehart								
7:00-7:09 (9 min)	Introductions! Zoom & Otherwise Updates on credentialed volunteers & pathway for new potential volunteers (RACES) https://www.qsl.net/nf4rc/2018/ARESACESCOMBINEDDOCUMENT.pdf https://www.qsl.net/nf4rc/2018/RACES Application v2 Fillable.pdf	Jeff Capehart								
7:09	Approval of July Minutes (thanks, Leland!) https://qsl.net/nf4rc/2020/NFARC Minutes July 2020 Final.pdf NOTE: We helped solve Brady Nettina’s tagging problems!	Jeff Capehart								
7:10-7:15 (5 min)	INTEROPERABILITY EXPLAINED – much more than just radios... Video: https://www.youtube.com/watch?v=A7lAxQ2HYsA	Williamson County, TN (Gordon)								
7:15-7:18 (3 min)	Outcome of the effort to file <i>Volunteer Florida Grant Application</i> \$5000 Max – Require “Match” Takeaway: Estimated volunteer effort /12 months = \$16,000	Gordon Gibby								
7:18-7:20 2 min	Upcoming GENERAL CLASS COURSE – November <i>Need ANTENNAS volunteer</i> <table><tr><td>WHEN</td><td>NOVEMBER</td></tr><tr><td>Preparation</td><td>Have students work thru the texts in advance</td></tr><tr><td>WHERE</td><td>?? EOC vs. Gordon’s house??</td></tr><tr><td>WHAT</td><td>?? ARRL Text https://www.amazon.com/ARRL-General-Class-License-Manual/dp/162595106X SLIDES AVAILABLE:</td></tr></table>	WHEN	NOVEMBER	Preparation	Have students work thru the texts in advance	WHERE	?? EOC vs. Gordon’s house??	WHAT	?? ARRL Text https://www.amazon.com/ARRL-General-Class-License-Manual/dp/162595106X SLIDES AVAILABLE:	Gordon Gibby
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7:45-7:47 2 Min	Trailer Creation Update 	Mike Ridlon
7:47-7:55 (8 min)	LAB N LUNCH THIS SATURDAY SIGNALINK CABLES / Boards Creation LabNLunch Saturday August 15 2020 – Burger King / 12 Noon / Social Distancing Gibby House – RSVP required by FRIDAY <input type="checkbox"/> Cables for _____ Radio (nominal cost for hardware) <input type="checkbox"/> Sound Card Interface printed circuit board/kit – get you started... Kit is \$20 (or less if I can get cheaper prices) ***Bring your Mask *** Bring your soldering iron / tools *** Good Time to be Had by All *** THIS IS THE HARDWARE PART OF OUR “DIGITAL 101”	Gordon Gibby
7:55-8:00 5 min	Santa Fe College EOC Support Meeting / Results	Earl McDow
8:00-8:07 (7 min)	Backup Battery Charger / Auto-Switch Update (This will eventually be a kit available for others) 20+ amp current capability 	Gordon Gibby

	<table><tr><th>Features Already</th><th>Features Eventually</th></tr><tr><td>Auto-switch to available power source almost instantly</td><td>Fine tuned charge algorithms</td></tr><tr><td>Charge algorithms for flooded, sealed, agm, LIFEPO4 with or without external charger. (primitive)</td><td>Temperature compensated charging</td></tr><tr><td>Charge algorithms for batteries from 5-100 Ahr (primitive)</td><td>Heatsink temp measurement</td></tr><tr><td>Battery equivalent series resistance measurement (battery health)</td><td>Auto-shutoff @ low battery voltage</td></tr><tr><td>Warning of poor battery status</td><td></td></tr></table>	Features Already	Features Eventually	Auto-switch to available power source almost instantly	Fine tuned charge algorithms	Charge algorithms for flooded, sealed, agm, LIFEPO4 with or without external charger. (primitive)	Temperature compensated charging	Charge algorithms for batteries from 5-100 Ahr (primitive)	Heatsink temp measurement	Battery equivalent series resistance measurement (battery health)	Auto-shutoff @ low battery voltage	Warning of poor battery status		
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8:07-8:10 (3 min)	<p>BRIEF REPORT: AUTO-TUNER Project Update (group-requested project #12; 23 points) ATU-100 – <i>anybody want to build this kit for the group???</i> <i>I've got it & we can find out how well it works</i></p> <div></div>	Gibby												
8:10-8:15	BEATY TOWER REPAIR UPDATE	Earl, Susan,, Jeff												

Possibly report on microwave interrogation



8:15-8:25
10 Min

**Report on Florida Baptist Disaster Relief Satellite Upgrade
& Training System Development**

Gordon Gibby



8:25-8:30
(30 sec each)

Status reports
NEWB Node – Gordon Gibby
DARK Node – Mike Shaffer
Gainesville Winlink Gateway – Bob Guertin
KX4Z HF Gateway – Gibby
New Gateway: KN4YTG Lake City – Gibby or Harding
Possible need for new east Gainesville Gateway – Gibby


Gibby, Shaffer,
Guertin

8:30-8:35	New Raspberry Pi 3B PLUS VHF NODE image available	Gordon Gibby
8:35	ADJOURN	

REVIEW OF ACCOMPLISHMENTS SO FAR THIS YEAR

Jeff suggested that we have a printout of a table of the goals that we set back in December and where we are with them. This is my effort to provide that information.

No.	Item	Voting Points Rcvd	Progress So far
1	EOC Equip/Ant	29	ICOM7300, Linear Amp, Pactor, Goboxes, Guanella low-loss Balun. Field Day proof!
2	LnL: AC Choke (FT-240-43 core)	27	<p>Success! LabNLunch for this activity was held the first week of February with successful outcomes. Document written on how to build these: https://qsl.net/nf4rc/2020/LabNLunchACCommonModeChoke.pdf</p> 
3	ARES Task Book	26	<p>Huge Effort, significant participation I think we have two at level III and more on the way.</p>
4	Solar Power	26	Field Day 20A charging station, tutorials.
5	Trailer Tower	26	<p>TRAILER built! Now awaiting tower mount / tower refurb. LabNLunch was held with the creation of the basic trailer, after it was purchased. Bearings were checked, greased, adjusted. Tag obtained.</p>
6	Rapid Deployment	26	EXERCISE COMPLETED

			<p>A full Saturday exercise held + several home stations Published in section newsletter.</p> 
7	Park Antenna AM	25	<p>Done in conjunction with the rapid deployment exercise in March https://arrrl-nfl.org/wp-content/uploads/2020/04/00-QST-NFL-April-2020.pdf <i>Alachua County Conducts Last "Saturdays-in-the-Park" Exercise For A Long While</i></p>
8	EOC Field Day	25	<p>A stunning success , lots of new experience gained by many.</p>
9	LnL: Common Mode meter	25	<p>Not yet!</p>
10	Digital 101	25	<p>Aug 15 LabNLunch to help with hardware planned.</p>
11	More NTS/Traffic	23	<p>Pursued well. Quarterly training held at the May meeting, discovered many people cannot hit more than 1 repeater. Very significant participation from our group in the Saturday Morning NFL ARES net control station training provided by Dave Davis (Wendell, Leland, Susan, Gordon, Brad)</p>
12	Go box tuner/Arduino	23	<p>Kit being evaluated now.</p>
13	Tech Class	22	<p>Hmmm....may not get done.</p>
14	Gen Class	22	<p>Planned for NOVEMBER</p>
15	Sat/Space Antenna	22	<p>Multiple satellite antennas constructed by John Trites / Mike Ridlon for the Field Day effort with successful capture of satellites, but not transmissions thru them.</p>
16	EZNEC ant sims.	22	<p>Not yet done.</p>
17	MESH Refresher	22	<p>HUGE EFFORT led by John Trites, with Leland Gallup and Earl McDow – considerable familiarity gained with these systems, and a complete working 200+ yard mesh network used successfully at the Field Day effort.</p>

			Gordon learned how to make KISS work over the mesh system and also how to provide a KISS port on a linbpq WINLINK gateway, allowing this to be a successful radiogram transmission technique for our Field Day Need to have a formal training on this.
18	QRP Amplifiers	17	Not yet done
	APRS (which I had forgotten on the listing)		USB GPS delivered to Vann. Further progress unknown

BOTTOM LINE @ AUG 9: Another project moves toward success.

BOTTOM LINE @ JULY 1:

19 Projects proposed for the year

11 Projects either completed or very significant work accomplished

7 Projects either not started or just in planning stage

And.... a HUGE Emergency Communications Conference was carried out at the end of February [not listed in the above projects for the year] with 50+ participating, full support of the Division Director, and a resulting published text of training materials: <https://www.amazon.com/Amateur-Radio-Emergency-Communications-Conference-ebook/dp/B0845TFG3F>

and with a full write up in the Section newsletter:

<https://arrl-nfl.org/wp-content/uploads/2020/04/00-QST-NFL-April-2020.pdf>

“Florida Emergency Communications Conference Holds One of Largest Amateur Radio HSEEP Exercises This Year “

Little did we know at that time that it might be the ONLY Amateur Radio HSEEP Exercise this year....

<i>About here the ratings kinda fell off a cliff (and possibly QRP amplifiers if below that cliff also) and thus the projects below were sorta in a no-man's land....</i>			
19	School club mentoring	16	
20	Legal limit watt meter	16	
21	Ubitx w/Cabinet	15	
22	Manpower electricity	15	
23	P SPICE sims	14	
24	Santa Grams Telegr	10	