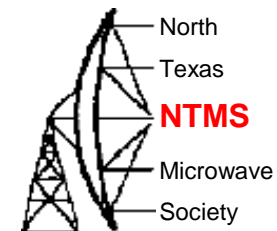
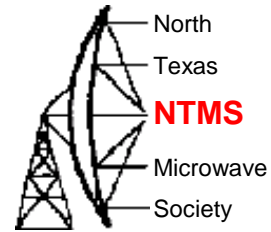


Welcome to The North Texas Microwave Society February 5th 2022



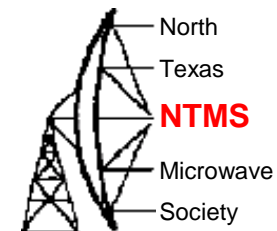
- Noon to 12:30 PM – Bull & Swap Session
- 12:30 PM - Meeting Starts
- Welcome
- Technical Program
 - Greg McIntire AA5C – 222 MHz Transverter and 3256 MHz LO Conversion
 - Al Ward W5LUA – EME Basics from 6m to 76 GHz
- “Show and Tell” by members – Wes WA5TKU, Dave N5RJX, Jim KM5PO, any others?
- 9cm Band Discussion
- NTMS Beacons
- Spring Operating Event
- Other items & Business Meeting

NTMS 2022 Officers



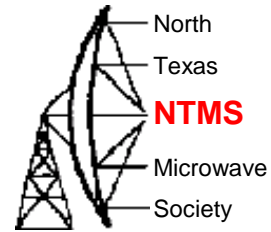
- President – Al Ward W5LUA
- Vice President – Greg McIntire AA5C
- Secretary -- Eric Haskell AG5XV
- Treasurer – Wes Atchison WA5TKU

Future NTMS Meetings

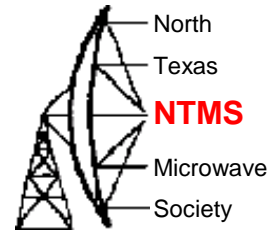


- NTMS generally meets on the first Saturday of most months.
- For now, the near term meetings will be via Zoom. In person meeting place being investigated for future.
- The next several meetings will be on March 5, April 2, and May 7.
- June – I am optimistic that Hamcom will return

Special Thanks



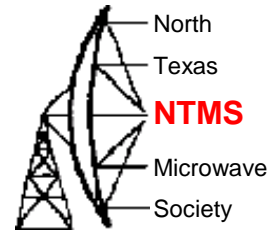
- A special thanks to Greg McIntire AA5C for leading the NTMS the last 2 years. With the pandemic, keeping any organization moving forward is a struggle and Greg was able to do that. Thanks.
- Also a special thanks to Dave McCoy N5RJX for organizing and running the zoom meetings.



Program

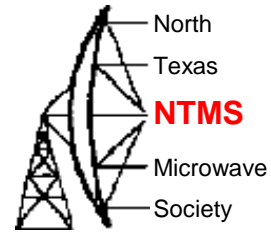
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Amateurs lose 3450 to 3500 MHz



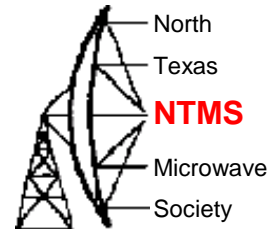
- SB QST ARL ARLB005
- ARLB005 Amateur Operation in 3.45 - 3.5 GHz Segment Must Cease by April 14, 2022
-
- The FCC has established April 14, 2022, as the date by which amateur radio transmissions must stop in the upper 3.45 - 3.5 GHz segment of the amateur secondary 9-centimeter band. Secondary operations are permitted to continue indefinitely in the remainder of the band, 3.3 - 3.45 GHz, pending future FCC proceedings.
-
- On January 14 the FCC released DA 22-39, which announces the results of Auction 110 for the 3.45 - 3.55 GHz band. Release of this notice triggered FCC rules adopted last year requiring that amateur radio operations between 3.45 GHz and 3.5 GHz cease within 90 days of the public notice.
-
-
-

9 cm Activity



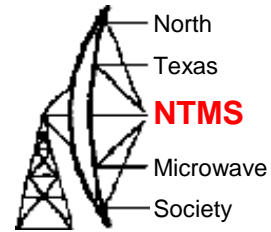
- Zack W9SZ of the SLAMS group in St. Louis suggested an activity event on 3-4-5-6 which is actually March 4,5,6!
- Between NTX and STX and AR, we should be able to generate some activity once we nail down the general time period.
- Question is will it be on 3456 or 3400 or both?
- Any thoughts?

TWU Beacon Site



- In Denton, we have beacons in the 432, 903, 1296, 2304, 3456, 5760 and 10368 MHz bands
- The beacons are located at Stark Hall, one of the TWU dorms in Denton. We are an invited guest of the Denton Amateur Radio Club so we have an obligation to work with any upgrades/changes they incur.
- As a result, they want to move us to a larger cabinet.
- We also need to work on better grounding of any coax that gets routed to our beacons.
- We also need to move the 3456.380 MHz beacon to 3400.380 MHz. This will require the purchase of a new crystal or we could chose to lock the beacon to a 10 MHz reference using a Digi-LO
- At the moment, we can only turn off/on all of our beacons by toggling a power strip via the internet. A nice option would be to individually toggle off/on each beacon.

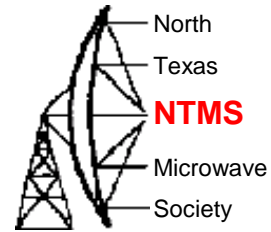
NTMS Beacon Status



North Texas Microwave Society area Beacon Status updated Feb 4, 2022

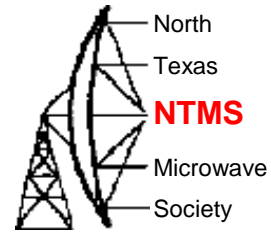
Freq (MHz)	Call	Grid	Power	Antenna	Height above Ground	Status	Frequency Stabilization	Freq Reference	Keying
50.073	W5HN/B	EM13sj	.5 W	Halo	180 ft	OFF THE AIR	Crystal	12.51825 MHz	on/off
144.280.2	W5HN/B	EM13sj	1.5 W	Halo	180 ft	ON THE AIR	Crystal	12.0233 MHz	on/off
222.060	AA5C/B	EM13se	8 W	Folded Dipole	53 ft	ON THE AIR	PLL	10 MHz	on/off
432.370	N5PYK/B	DM93bm	50 W	Yagi towards DFW	70 ft	ON THE AIR	XCVR		on/off
432.380	W5HN/B	EM13kf	.8 W	Halo	280 ft	ON THE AIR	ADF4351	10 MHz OCXO	on/off
903.050	W5HN/B	EM13kf	9 W	Alford Slot	280 ft	ON THE AIR	N5AC PLL	10 MHz OCXO	on/off
1296.375	W5HN/B	EM13kf	3 W	Alford Slot	280 ft	ON THE AIR	N5AC PLL	10 MHz OCXO	on/off
2304.366	W5HN/B	EM13kf	4 W	Alford Slot	280 ft	ON THE AIR	Crystal		FSK
3456.380	W5HN/B	EM13kf	250 mW	Alford Slot	280 ft	ON THE AIR	DB6NT Crystal X 27	128.014 MHz	FSK
3400.380	W5HN/B	EM13kf	250 mW	Alford Slot	280 ft		DB6NT Digi LO ?	125.94 MHz	on/off
5760.364	W5HN/B	EM13kf	158 mW	Alford Slot	280 ft	ON THE AIR	DB6NT Crystal X 48	120.0076 MHz	FSK
10368.368	W5HN/B	EM13kf	2.5 W	Alford Slot	280 ft	ON THE AIR	DB6NT Crystal X 96	108.0038 MHz	FSK
24192.324	AA5C/B	EM13sf	500 mW	16-slot WR42	75 ft	ON THE AIR	Crystal	112.0015 MHz	on/off
47088.300	Under construction								

Spring 5.7/10/24 GHz Event



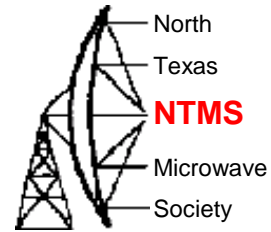
- Good time to check out equipment
- Check out new rover spots
- Possible Dates
 - March 19/20
 - April 16/17
 - May 14/15
- Coordinate with RMG

NTMS Weekly Gatherings on the Radio



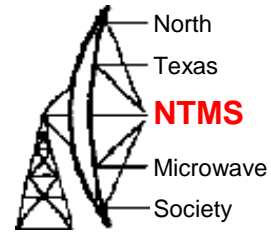
- Sunday 8PM 144.260 MHz USB NET run by Ross K5ZSJ from the Carrollton area
- Monday 7:00 PM 144.174 MHz FT-8
- Tuesday 7:00 PM 222.174 MHz FT-8
- Wednesday 7:00 PM 432.174 MHz FT-8
- Higher frequencies on request

NTMS Lunch



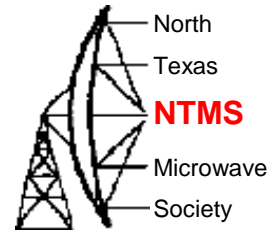
- When: Tuesday 11:30AM
- Where: Texas Smokehouse Bar-B-Que
800 E. Arapaho Rd #101
Richardson, TX
972-699-1521

NTMS Budget



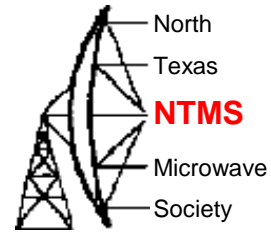
- Zoom Meeting \$100/yr
- Website Blue Host \$86/yr
- ARRL Liability Insurance \$200/yr
- PO Box \$146/yr
- 501c3 non profit filing with TX \$25/yr
- Total \$557 / \$12 dues > 46 members min
- Does not include meeting room space (\$50 per month) and ARRL Spectrum Defense Fund donations

Business Meeting



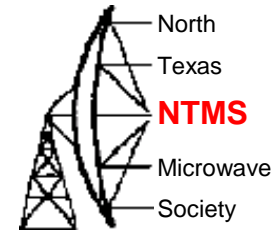
- Old Business
- New Business
- Adjourn

Meeting Room



- St. Barnabas Church has priced themselves out of reach for us.
- We reached out to UNT and it appears that with NTMS being a 501c3 organization, we should be able to get a \$50 rate for a 4 hour time slot with classroom style seating for about 30 people with social distancing.
- We will check out the room in the next month or so.
- We do plan to continue with the Zoom meeting once we decide to startup in person meetings again.

ARRL Spectrum Defense Fund



The screenshot shows the ARRL website interface. At the top left is the ARRL logo with the text "The national association for AMATEUR RADIO®". To the right, there are user options: "Hello Albert | Log Out", "Your Favorites", and "Edit your Profile". Further right are search boxes for "Website Search" (Keyword and Category) and "Call Sign / Name Search" (Search Licensees). Below the header is a navigation menu with links: Home, On The Air, Licensing, Education & Training, Membership, Regulatory & Advocacy, Public Service, Technology, Get Involved, ARRL Store, About ARRL, and News & Features.

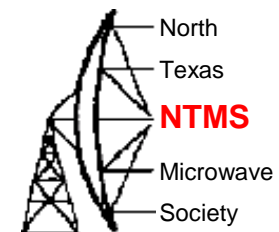
The main content area is titled "Spectrum Defense Fund". On the left is a sidebar menu with links: "Spectrum Defense Fund", "Spectrum Defense Matters Newsletter", "Education and Technology Fund", "W1AW Endowment Fund", "Historic Preservation Fund", "Amateur Radio Direction Finding", "Legislative Issues Advocacy Fund", "Join ARRL", and "Donate Now Help Support ARRL".

The main content area features a large banner with the text "Protect Your Frequencies..." and an image of a radio tower. Below the banner, it says "The 2018 ARRL Spectrum Defense Fund" and "Thanks to the support of ARRL members, ARRL has maintained constant vigilance and taken decisive action throughout the years, including:":

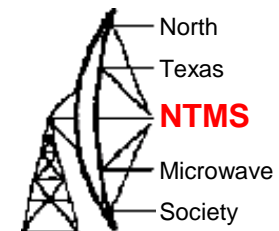
- Defeating the threat that Little Leo satellites posed to the 2-meter and 70-cm bands;

On the right side of the page, there are two promotional boxes. The top one says "Learn to copy in your head. Painless and FREE morseDX". The bottom one is for "Cushcraft Amateur Radio Antennas" and features a photo of an antenna with the text "1405B, 10-20 Meters... \$499.95 small footprint... Big Signal! Average 2.6 dB Gain".

In 2021, the NTMS voted to donate \$300 to the ARRL Spectrum Defense Fund. I would like to see a motion that NTMS donate a similar amount in 2022.



- Any other topics to bring up?



- See you next month on March 5th
- Don't forget activity days
- 73