ORANGE COUNTY AMATEUR RADIO CLUB, INC.

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P.O. BOX 3454, TUSTIN, CA 92781

February 2022

The Prez Sez... By Nicholas AF6CF



At the second month of 2022 we can see some changes coming, as the pandemic is apparently evolving into something less relevant. We don't know if it's here to stay or going away. But I can tell that this is going to be another great year for the Club.

Despite the sanitary situation, we had a fantastic Winter Field Day with many members participating at our site and from home. This dual participation seems to be the new norm for these activities, and I don't see any signs of change in the near future. Of course, we hope that this will not be the case. but having hoped for a "back to normal" for a couple of years, now, all bets are off. I would like to personally thank both co-chairs of the WFD activity Ron and Tim, they did a wonderful job and so did all those that were brave enough to share the operating tent.

See the WFD pictures in this issue.

We have big hopes for the rest of the year with plans and activities. Of course, Field Day is always front, and center and we are now that WFD is over will we be starting conversations about Summer Field Dav. We'll see what the ARRL has to say about this year's rules. The Board will be electing working on Chairpersons to give it an early start. Again, I will delegate most if not all activities to others, so we will have qualified people doing the job at hand.

The Baker to Vegas race that has been cancelled for a couple of years now is going to happen and several Club members (including myself) plan participate providing communications support to one of the participating teams. We are going to evaluate if we can have other activities like antennas at the park (or beach), open houses, parties and picnics as before. We know that the Board Directors is working to find activities scheduled and hope to come up with some.

Continued page 3....

NEXT GENERAL MEETING

February 18, 2022

Join us via ZOOM at 19:00 Hrs.
Current OCARC members will
receive an email with
instructions. Early check-in
available at 18:30 Hrs. (+-)

Speaker:

Wayne Overbeck N6NB Presents "RF Safety"

NEXT BOARD MEETINGSaturday, March 5, 2022

SPECIAL NOTICE:

During the COVID-19 pandemic All OCARC Nets will Remain Active!
See page 2.

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2022 Board of Directors:

President:

Nicholas Haban, AF6CF (714) 693-9778 af6cf@w6ze.org

Vice President:

Tim Goeppinger, N6GP (714) 730-0395 n6gp@w6ze.org

Secretary:

Corey Miller, KE6YHX (714) 322-0395 ke6yhx@w6ze.org

Treasurer:

Ken Konechy, W6HHC (714) 348-1636 W6HHC@W6ZE.org

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Steven Belasco, N1BKB n1bkb@w6ze.org

Directors-at-Large

Dan Violette, KI6X (714) 637- 4632 ki6x@w6ze.org

Tim Millard, N6TMT (714) 744-8909 n6tmt@w6ze.org

2022 Club Appointments:

W6ZE Club License Trustee:

Bob Eckweiler, AF6C (714) 639-5074 af6c@w6ze.org

Club Historian:

Corey Miller, KE6YHX (714) 639-5475 ke6yhx@w6ze.org

RF Editor for February 2022: **Greg Bohning W6ATB**

Greg.w6atb@gmail.com

Webmaster:

Ken Konechy, W6HHC (714) 348-1636 W6HHC@W6ZE.org

Assistant Webmaster:

Bob Eckweiler, AF6C (714) 639-5074 af6c@w6ze.org

Tim Millard, N6TMT (714) 744-8909 n6tmt@w6ze.org

ARRL Awards Appointees:

Arnie Shatz, N6HC (714) 573-2965 N6HC@aol.com

John Schroeder, N6QQ (West Orange Co.) (562) 404-1112 N6QQ@msn.com

Monthly Events:

Membership Meetings* 200m



Time: 7:00 PM

When: 3rd Friday of each Month *See ZOOM announcement pg.1

Board Meetings

February 05 at 8:15 AM New physical location coming soon ** Board will handle Club business by ZOOM at this time

Club Nets (Listen for W6ZE):

10M: 28.375 ± MHz SSB Wed- 7:30 PM - 8:30 PM Net Control: Corey, KE6YHX

2M: 146.55 MHz Simplex FM Wed- 8:30 PM - 9:00 PM Net Control: Corey, KE6YHX

75M 3.883 MHz LSB

Tue @ 8:00 PM

Net Control: Corey, KE6YHX

CATALINA AMATEUR REPEATER ASSOCIATION (CARA) 147.090 MHz (+0.600 MHz) No PL

Monday - Friday 9:00AM and 9:00PM Prg. Director. Tom W6ETC

OCARC 2022 DUES

Membership period is: 1 January to 31 December

Individual New or Renewal: \$30. Family New or Renewal: \$45. Teen New or Renewal: \$15.

New Member Dues are prorated quarterly and includes a badge: Additional Badges: 9 Use one of our interactive online forms to calculate current prices, join the club and/or order badges:

Online Forms / Dues & Badges

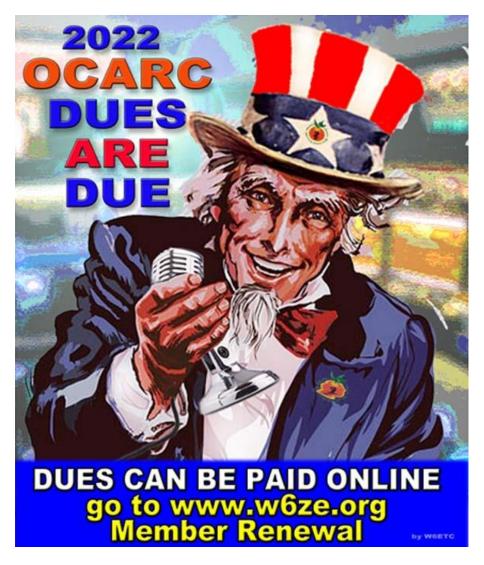
\$3. plus mailing costs if applicable

The Prez Sez...
By Nicholas AF6CF (continued)

The Radio Nets are still actively growing, and many repeater nets are buzzing with activity. We hope that this momentum will stay for the long run. HAM radio is a wonderful means of socializing with each other. As a Club, we are fortunate to have many great celebrities amongst us. This month's speaker is an example of that, talking about "RF Safety". No doubt It will be a very entertaining and informative meeting, don't miss it. I know that we will not be disappointed, so Happy Valentine's Day and I'll see you all at the Meeting.

73 from

Nicholas, AF6CF



Adult Renewal: Teen New or Renewal: Family Renewal: \$30.00 for the full year \$15.00 for the full year \$45.00 for the full year



Winter Field Day

Winter Field Day 2022 is now in the history books. 2022 has been the seventh WFD that our club has put W6ZE on the air. The first couple of years our station was manned only by a few operators setting up at the Prado Regional Park with marginal success, but we had fun doing it. To increase participation, we moved the operation to the Ocean View School District facility in Huntington Beach. The move has been a success and with more operators and more entries shown in the log.

This year's WFD ran smoothly with only a few glitches. One was not getting the sides of our tent until Saturday afternoon, and another was a rig that wouldn't transmit 30 minutes before the event begun, (funny it worked last year). Looking at our score summary you can see we had 27 multipliers while working eleven bands and three modes. In his spare time Chip K7JA also snagged a couple of satellite contacts. Most of the cast of characters (operators and support) had been through the drill before so the setup of towers, masts and an array of antennas went well. The tear down must have set a record, we were nearly 100% packed up within an hour of the event finishing.

The team member ages ranged from 15 to 80 years. I only mention that because if your age falls between or even outside those ages you can have fun at WFD. One of our club's younger members, Allan KN6KOR and guest operator Isaac K6IAS (15), were manning the 40m phone station for a time on Saturday afternoon.

Remember it's less than 12 months to WFD 2023 and we want to see you in the next group photo.

73, Ron W6WG



WFD 2022 PICTURES



Familiar Faces



WFD 2022 PICTURES



Our Field Day Tent - The Night Shift



WFD 2022 PICTURES





Chip's K7JA Crew Putting Up the Crankup US Tower & Homebrew 20 Meter Beam

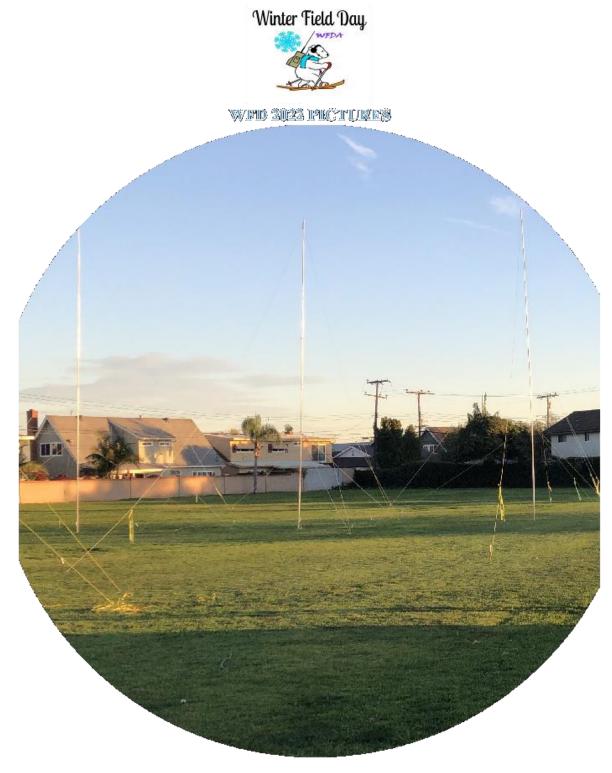


Wind 2022 Photogra





Afternoon and Early Morning



Ron's-W6WG Pride & Joy – 40 Meter 3 Element Phased Array



27 Multipliers 2000 Bonus Points

Final Score 141752

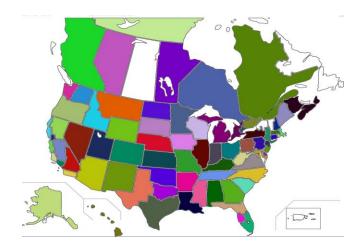
Band	CW	Phone	Dig	Total	%
160	2	0	0	2	0
80	56	1	6	63	4
40	37	309	12	358	20
20	426	459	31	916	51
15	197	175	4	376	21
10	26	20	2	48	3
6	1	1	1	3	0
2	1	6	1	8	0
1.25	0	1	0	1	0
70	1	4	1	6	0
33	0	2	0	2	0
Totals	747	978	58	1,783	100

Nearest scores posted on 3830:

N5AEX 77K https://www.3830scores.com/showrumor.php?arg=7xa9zNsqsqcfd

W8MAI 72K https://www.3830scores.com/showrumor.php?arg=hrarzusqsaas0

"You can quote me that our 4^{th} repeat win appears safe" \rightarrow Tim – N6GP



Non-white = worked by W6ZE - These colors are randomly generated White = not worked

OCARC NEW PROPANE GENERATOR



I wanted to extent the generator's continuous run time by building a dual propane tank setup. The following materials are used to build the dual tank setup and are listed below.

- 1) Automatic valve/regulator: https://www.ebay.com/itm/275037629577
- 2) Hoses w/gas pressure gauges: https://www.ebay.com/itm/393008618801
- 3) Base for two tanks: https://www.ebay.com/itm/384666684397
 - I replaced the original hoses with the ones with gauges and purchased some pipes, elbows, etc. at the Home Depot.
 - The elbows and pipes were used to connect the generator gas input valve after removing the original regulator.
 - Prices vary wildly, so you must do some research to get the best prices on eBay, Amazon, etc...

The dual propane tanks provided more than enough fuel to power the generator at Winter FD 2022, from Saturday morning until noon on Sunday.

73,

Nicholas Haban, AF6CF

RadioActivity February 2022

FEBRUARY

- *CQ WW WPX / RTTY 0000 UTC Saturday Feb.
 13 through 2359 UTC Sunday Feb. 14
- *ARRL International DX Contest CW: 0000 UTC Sat. Feb 19 through 2359 UTC Sunday Feb. 20
- *CQ WW 160 Meter SSB: 2200 UTC Friday Feb.
 25 through 2200 UTC Sunday February 27
- North American QSO Party/RTTY: 1800 UTC Sat. Feb 26 through 0559 UTC Sunday Feb. 27

MARCH

- *ARRL International DX SSB Contest: 0000 UTC Saturday March 5 through 2359 UTC Sunday March 6.
- **North American Sprint / RTTY: 2300 UTC March 12 through 0300 UTC Sunday March 13
- *CQ WW WPX Contest / SSB: 0000 UTC Saturday March 26 through 2359 UTC Sunday March 27
 - * Indicates club entries are accepted
 - ** Indicates team entries are accepted

Note: When submitting logs for ARRL Contests indicate your club affiliation as "Orange County ARC"

State QSO Parties

- **Vermont QSO Party:** 0000 UTC Saturday February 5 through 2400 UTC Sunday Feb. 6
- Minnesota QSO Party: 1400 through 2400 UTC Saturday February 5
- South Carolina QSO Party: 1500 UTC Saturday February 26 through 0159 UTC Sunday Feb. 27
- North Carolina QSO Party: 1500 UTC Sunday Feb. 27 through 0100 UTC Monday Feb. 28
- Oklahoma QSO Party: 1500 UTC Saturday March 12 to 2100 UTC Sunday March 13
- Idaho QSO Party: 1900 UTC Saturday March 12 to 1900 UTC Sunday March 13
- Wisconsin QSO Party: 1800 UTC Sunday March 13 to 0100 UTC Monday March 14

Repeating Activities:

 Phone Fry: Every Tuesday night at 0230 UTC to 0300 UTC

- SKCC: Weekend Sprintathon (Straight Key CW) on the first weekend of the month after the 6TH of the month. 1200 UTC Sat. to 2400 UTC Sunday.
- SKCC: Sprint (Straight Key CW) 0000 UTC to 0200 UTC on the 4th Tuesday night (USA) of the month.
- CWops: Every Wednesday 1300 UTC to 1400 UTC 1900 UTC to 2000 UTC and Thursday 0300 UTC to 0400 UTC
- K1USN Slow Speed Test: (CW, 20WPM Max.) Every Friday 2000 UTC to 2100 UTC Every Sunday night at 0000 UTC to 0100 UTC Monday

OCARC Club Nets:

- 75 Meter Net: Every Tuesday night at 8:00 pm to 8:30 pm Local Time. SSB 3.883 MHz
- 10 Meter Net: Every Wednesday night at 7:30 pm to 8:30 pm Local Time. SSB 28.375 MHz
- 2 Meter Net: Every Wednesday night at 8:30 pm to 9:30 pm Local Time. FM Simplex 146.55 MHz

Other Nets:

Net-AT-9: Wellness & Support
 Monday thru Friday 9:00 am and 9:00

 pm Local Time 147.090 MHz (+600 MHz) No PL

Send an email to Ron W6WG, <u>w6wg@w6ze.org</u> to have your favorite activity or your recent RadioActivity listed in next month's column

OCARC BOARD MEETING MINUTES 2022-02-05

Due to the ongoing pandemic, the second Board Meeting of the year was via Zoom on Saturday, February 5, 2022. The meeting was called to order by our president, Nicholas Haban AF6CF at 8:15 AM PST. Eight (8) directors were present for a quorum. Our public relations officer arrived shortly thereafter, and our treasurer was absent. There were sixteen (16) topics brought to the Board this morning, and two (2) motions carried, including adjournment.

including adjournment.



Fig 1 - Nine (9) Board Directors were present.

Director Reports

-Secretary: Corey KE6YHX got the mail from our post office box in Tustin, yesterday. There was one dues payment and one piece of junk mail.

Corey suggests moving the September General Meeting in response to the move of the September Board Meeting. The Board members don't see the need. Bob AF6C proposes waiting, and no final decision is made.

-Membership: Bob AF6C reports we are steadily receiving member applications.

Old Business

•Review of Financial Audit Committee Report

Financial Audit Committee Members Steve N1BKB and Bob AF6C report the Audit was off by only \$0.89. Dan KI6X moves to approve the Financial Audit Committee Report, Steve N1BKB seconds, and the motion is carried unanimously by the Board.

•Newsletter Editors

February: Greg W6ATB

March: Jim AF6N April: Bob AF6C May: Tim G. N6GP June: Steve N1BKB

July: --open to volunteers--

•General Meeting Programs

February: Wayne Overbeck N6NB Presents "RF Safety"

March: --to be determined--

•Future Meeting Plans and the American Red Cross

Dan KI6X reports there is no news for the American Red Cross meeting room after March.

•Winter Field Day 2022

Ron W6WG tells us we had a very good Winter Field Day. We had three planning meetings with five (5) attendees. Ron counts eighteen (18) participants at the Huntington Beach site, and several visitors. Our score projects a four-peat for us. Ron suggests re-starting the GOTA station for visitors. Nicholas AF6CF explains we had the means but did not implement them.

•PayPal Account Ownership

Tim Goeppinger N6GP reports there is no news regarding this.

New Club Generator

Nicholas AF6CF is pleased to report the new Firman generator lasted through the entire Winter Field Day operation. Tim M. N6TMT plans to change the oil.

•Old Generator Plans

Bob AF6C plans to start work on the old generator soon. He picked up some supplies, and plans to gather more. Bob will get to it after some construction on his house.

New Business

Continuation of Zoom Meetings

It is generally agreed to continue the meetings using Zoom.

Cyber Security

Nicholas AF6CF reminds us we have had some scammers contacting us, and to be aware of this.

Member Stories at Meetings

We should encourage members to share stories at the General Meetings, Nicholas points-out. Bob AF6C says it is a good idea.

•Baker-to-Vegas Race

Nicholas AF6CF expounds on a suggestion from the B2V organizer that more Club members participate.

•Good of the Club

Bob AF6C tells us we are starting to get QSL cards from Winter Field Day.

•Adjournment

A motion to adjourn is made, seconded, and carried at 9:03 AM PST.

--Respectfully submitted by Corey KE6YHX, OCARC Secretary

OCARC GENERAL MEETING MINUTES 2022-01-21

Due to the ongoing pandemic, the first General Meeting of the year was via Zoom on Friday, January 21, 2022. The meeting was called to order by our president Nicholas Haban AF6CF at 7:00 PM PST. There were thirty-two (32) members, guests and visitors present, including our speaker.

•Pledge of Allegiance

Nicholas begins the Pledge of Allegiance at 7:01 PM PST.

•Meeting Presentation

Nicholas AF6CF turns the meeting over to our vice president Tim Goeppinger N6GP. Tim introduces Wayne Yoshida KH6WZ. Mr. Yoshida is a technical writer and a member of our club who has presented for us before. He has participated in Maker Fairs and is a UCLA Graduate. He has also visited the Owens Valley Radio Observatory. Tim also tells us Mr. Yoshida has a certificate in "workplace humor."

Mr. Yoshida presents "No Tools Troubleshooting." This topic began when Wayne participated in a Huntington Beach RACES drill years ago. During the closed net, one operator had difficulty with his rig, and a member had to leave his post to help the operator reprogram his radio, something strongly unadvised. This kind of problem occurs often, especially for beginning operators. This topic can also be described as "no tools diagnosis," as a way to avoid manufacturer service.

During the problems with Apollo 13, a famous quote from Gene Kranz is, "Let's work the problem, people. Let's not make things worse by guessing." Wayne was very aware of Mr. Kranz when he got involved with NASA. Wayne tells us these techniques are applicable to anyone's station, regardless of license class.



Fig 1 − No Tools Troubleshooting

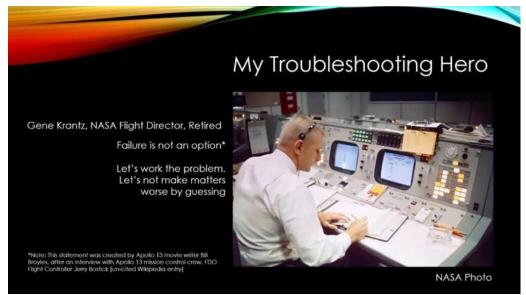


Fig 2 – My Troubleshooting Hero – Gene Kranz, NASA Flight Director



Figs 3 and 4 – Whether Your Station Looks Like This...Or This



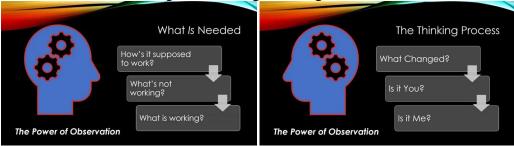
Fig 5 – Sooner or Later, Something Will Happen.



Figs 6 and 7 – If Your Rig Breaks During a Contest... Although Lots of Test Gear Helps...



Fig 8 – Let's Figure Things Out.



Figs 9 and 10 – What is Needed and The Thinking Process



Figs 11 and 12 – Think Like Your Radio – RX and TX

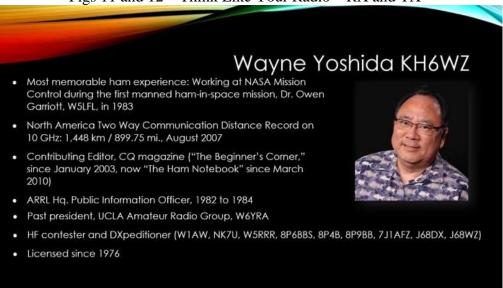


Fig 13 – Wayne Yoshida KH6WZ

Questions and Answers

Wayne turns the meeting back to Tim G. N6GP. Tim calls for questions from the audience.

Chip K7JA is having problems with his audio, and Wayne talks about his experiences with HB RACES.

Steve N1BKB asks about the rig problem Wayne helped a YouTuber with from earlier in the presentation.

Nicholas AF6CF guesses correctly.

Nicholas asks Wayne about his past call signs, and Wayne recounts many from various countries and DXpedition.

Tim G. N6GP asks if radios and equipment should be fully inspected when receiving them new. Wayne recounts a posting from long ago of an operator internally inspecting a new connector and discovering an unsatisfactory contact design. Wayne recommends buying from a reputable dealer and brand and warns of equipment from a more public vendor. "If the deal sounds too good to be true, then it probably is," Wayne concludes. Dan KI6X says some testing should be done. He had a problem with a new three-way antenna switch, and Wayne agrees. Wayne tells us of an exercise about a large order of RF transistors being returned from a distributor, because the transistors were blowing. As it turns out, they were a symptom and not the cause.

Tim G. N6GP thanks Wayne for the very interesting and informative presentation. Wayne says thank you, and Tim turns the meeting back to Nicholas AF6CF.

Business Meeting

Our president, Nicholas AF6CF starts the business meeting at 8:20 PM PST. Nine (9) Board members were present for a quorum. Four (4) topics were brought to the Board tonight, and one (1) motion carried, adjournment.

- •SK Report: Nicholas AF6CF tells us that long-time member and Historian Emeritus Bob Evans WB6IXN passed away earlier this month. Corey KE6YHX reports Bob's services will be held tomorrow afternoon. All the information is available in our January *RF Newsletter*.
- •Winter Field Day: Nicholas AF6CF reminds the attendees that Winter Field Day is next weekend.

Director Reports

Nicholas AF6CF starts the Director Reports.

- -Activities: Ron W6WG tells us we have Winter Field Day 2022 coming on January 29-30. The logging program was updated this week, and we are "COVID compliant." Food and drinks are on an individual basis, and so are headphones and mics. Arrangements are made with the participants present. The times and location are available on our web site.
- **-Membership:** Bob AF6C reports we have a total of about 125 members. The web site is mostly up-to-date, and club dues must be paid by the end of March.
- •Baker-to-Vegas Race: Nicholas AF6CF reports the B2V Race will be on April 9-10, this year. Cellphone coverage is limited, so Ham Radio stations will be placed along the racecourse. If anyone is interested, please send an email to Nicholas at af6cf@w6ze.org.

•Ask the Elmer and Good of the Club

There are no questions for Ask the Elmer or The Good of the Club.

•Adjournment

A motion to adjourn was made, seconded and carried at 8:35 PM PST.

--Respectfully submitted by Corey KE6YHX OCARC Secretary



Press Release: For Immediate Release

QSO Today Virtual Ham Expo March 12-13, 2022 Save The Date!

Our next QSO Today Virtual Ham Expo will be held live from March 12-13, and then on-demand for 30 days afterwards. We promise an amazing learning and networking experience to help you improve your knowledge and get exposed to new ideas, equipment, and practical techniques. No need to travel - participate from your home or office! Information can be found at https://www.gsotodayhamexpo.com.

Here's why this is a "must attend" event:

Listen, engage with 60+ internationally recognized ham radio luminaries. Our speakers are experts and deeply know their material. Most importantly, they've worked hard to make sure that you'll understand the material and can apply it immediately to your projects.

So, so many different topics - everybody will find something of high value. There's content for everyone whether a newly licensed ham looking for next steps to using that license or a 30+ year experienced ham looking for new projects. Some of the more interesting presentations include: Core HF Communication Concepts: Fundamentals of Shortwave Propagation; Deep Dive of An FPGA DVB-S2 Implementation; Fun With The NanoVNA; and Helically Wound Vertical for 160M.

Watch as many presentations as you want! A big limitation of in-person events is that you can't watch many of the presentations (you can only be in one room at a time). At the Expo, return anytime within 30

days to listen to any Live speakers you missed as well as explore exhibitor offerings.

Check out our live <u>Kumospace</u> video lounges for attendees to interact with each other and exhibitors. At the Expo we'll debut exciting but proven technology to further improve the live video interaction experience with exhibitors and fellow operators. You'll find this is a great way to meet up with friends, talk to vendors, and network on specific subject areas.

Take advantage of our calendar technology to efficiently organize your time. You can download speaker times in your local time zone directly to your Google or Outlook calendar. You'll then have a complete schedule of sessions to join to maximize your time during the Live period with speakers that are the most important.

ARRL, the national association for Amateur Radio[®], is a QSO Today Virtual Ham Expo Partner. FlexRadio is the Expo's Platinum Sponsor, Elecraft is our Gold sponsor as of this time.

Early Bird Tickets go on sale February 1, 2022, and are just \$10 (through March 6) and then \$13.50 to the end of the on-demand period. Tickets include entry for the Live 2 day event and the 30 day on-demand period. Save on gas, lodging, and transit time to attend the QSO Today Virtual Ham Expo on March 12 and 13.

For more information, go to https://www.qsotodayhamexpo.com. Make sure to put the March 12-13, 2022 dates on your calendar!

Press contact:

Brad Grob

brad@qsotodayhamexpo.com

+1-323-933-3950

QSO Today Virtual Ham Radio Expo, KEG Media, Inc., 4470 W Sunset Blvd #92485, Los Angeles, CA 90027, USA, +1-213-577-0091

OCARC Cash Flow - Jan 2022

1/1/2022 through 1/31/2022

	1/1/2022-	
Category	1/31/2022	
INFLOWS		
Dues, Family (PayPal)	42.94	
Dues, Membership	60.00	
Dues, Membership (PayPal)	540.74	
TOTAL INFLOWS	643.68	
OUTFLOWS		
Web Site Hosting	19.00	
TOTAL OUTFLOWS	19.00	
OVERALL TOTAL	624.68	



MiniTiouner-Express

Digital Amateur Television DVB-S/S2 Receiver / Analyzer





Available at DATV-Express.com

- Operates with Windows PC using free MiniTioune software from Jean-Pierre F6DZP
- Smaller than a stack of 2 decks of cards (picture above is full size)
- · Two independent simultaneous RF inputs with internal preamps
- High sensitivity -100dBm @1288MHz at 1/2 FEC
- · Fully assembled/tested in aluminum enclosure
- Covers 144-2420MHz (ideal for Space Station DATV reception)
- Symbol rates from 75 KSymb/s to >20 MSymbols/sec
- Uses external 8-24VDC supply or +5V from USB-3 port (with small modification)
- Real time signal modulation constellation & dBm signal strength display
- Price: US \$75 + shipping order with PayPal

For details & ordering go to www.DATV-Express.com MINITIOUNE v0.8s - Receiver/Analyser DV8-5/52 144 MHz to 2450 MHz - SRmini±65 k5/s - for MiniTiouner/MiniTiouner-Pro HOMEON AND ADDRESS OF THE PARTY NIM: Serit FTS-4334L **PIDs** SR (kS) Freq (kHz) MiniTioune 03125 01268000 LNA gain: 8.3 dB BaseBand Gain DVB-S WSRUT 1 Offset-> . 0 __ 0 dB Frequency (kHz) WSRUT 2 SR3125 1268p MHz 00162 Freq asked:1268000kHz Freq. set. 1268004 kHz HDlowSR. 1 search SR4167 1288 MHz Freq -> 1268028 kHz 10 MHz France24 88000 SR250 437 MHz chained Offset 000kHz QRZ DX SR1000 437ae MHz -9-SR22000 437ve MHz Low SR DV8 m FEC 0 DVB-S 1/2 17 37 0 DVB-S2 2/3 17 3/4 0 AUTO Height Target dev. 24kHz Deviation: 24 kHz GRAPH ___ 8000 kHz 4000 kHz 2000 kHz Web Station ID:1 Symbolrate (kS) WERUT 1 SR set: 3125049S DVB-S 1000 kH Deviation: 208S VMpeg2 + MPA SR -> 3125 kS/s ENSOND Preamp 20 dB Carrier Width: 4219 Khz Ant. Dir. East Gain 12 dB Lg Msg IQ Lg Pic 1: 75 Q: 74 Timing 3 sec 000000 0 Equa Noise dBm • -10 dB -60 100% 87% FEC 3/4 MER Carrier Lock Timing Lock TS 🖯 🖯 🖯 🖯 -110 0 Quit Carrier Full RF Pw -40dBm S/N MER 23 dB Constellations (MiniTioune display above is the ATCO 1268MHz DVB-S repeater signal

at WA8RMC QTH 15 miles away).