

## INDIAN RIVER ARC

P.O. BOX 237285, COCOA FLORIDA 32923-7285

## SPURIOUS EMISSIONS

AUGUST, 2019

## **OFFICERS**

PRESIDENT
DAVID LERRET
KUOR

VICE-PRESIDENT VIRON PAYNE N4VEP SECRETARY

STEVE LUCHUCK

TREASURER

LARRY HENDERSIN

KK4WDD

DIRECTOR

DAVID SLAWSON

K4UZM

NEWSLETTER EDITOR ARMANDO DELGADO KN4JN

#### **CLUB MINUTES**

President Dave KUOR was out of town, so Vice-President Viron N4VEP ran the meeting.

The meeting was called to order at 7:30 PM

After the Pledge of Allegiance, Viron started the meeting.

The June meeting minutes were published in the June newsletter. A motion was heard to approve the June meeting minutes. A second was heard and the June meeting minutes were approved by acclamation.

The Treasurer's Report showed \$1475.02 in checking and \$1778.15 in the Equipment Fund. A motion to approve the Treasurer's Report was heard, a second was heard and the Treasurer's Report was approved by acclamation.

For the Technical Committee, Viron reported that the 146.88 repeater antenna was replaced with a new one because the old antenna suffered damage from water intrusion due to inadequate sealing from a manufacturing defect. The new antenna cost \$900 dollars, but the good news is that the manufacturer of the old antenna provided an update kit for the damaged antenna at no cost. We refurbished the old antenna and it passed all tests. Now we have an excellent back up antenna for both 2m club repeaters.

Next, Viron discussed the progress made in the club station refurbishing, where wall openings were provided for access for generators, to provided power during emergencies.

Also, the committee has a request for donation of an allband vertical antenna to replace the dipoles we lost due to the EOC construction behind the Red Cross facility.

Saturday, August 3, is Coast Guard Day and the club will operate a special event station at the Coast Guard Station at Port Canaveral. The BEARS-1 vehicle will provide support for the activity. All interested in participating contact Viron. Access to the Coast Guard base

is limited to those registered to participate in the event.

Dave, K4UZM, for the Educational Committee, next discussed his plans to have exams once a month on the third Thursday of the month, and his hopes of creating a panel of volunteer members willing to elmer new hams. He hopes to be able to provide training classes for prospective hams on both theory and practical, hands-on amateur projects, like basic dipole antenna construction, soldering, etc. Those willing to become elmers for specific aspects of amateur radio, like antennas, power supplies, etc. contact Dave.

Next was the 50-50 drawing. Viron, N4VEP won the price.

A motion to adjourn occurred at 8:11 PM and was moved and approved.

Respectfully Submitted
Steve N4UTQ

#### HAPPENINGS

This year marks the 150th anniversary of the birth of ARRL's first president and cofounder Hiram Percy Maxim (HPM), W1AW, born on September 2, 1869. ARRL will hold an operating event this summer to celebrate HPM's legacy from 0000 UTC on August 31 and continue until 2359 UTC on September 8. It is open to all radio amateurs. More details here.

"Selecting Coaxial Cable" is the topic of the July 4 episode of the <u>ARRL The Doctor is</u> <u>In</u> podcast, "Antenna Polarization" is the topic of the July 18 episode and "Noise Blankers and Noise Reduction" is the topic of the new August 1 episode.

Language in the Federal Aviation Administration (FAA) Reauthorization Act of 2018 will exclude all but a small number of Amateur Radio towers from marking requirements. The bill's original language was amended to the extent that amateur towers, as well as residential towers used for over-theair TV reception, were effectively exempted from marking requirements. While a few Amateur Radio towers will fall under the Act's marking requirements and

will have to be registered, towers in residential yards or within farmland are specifically exempted. More details here.

The WSJT Development Group has announced the "general availability" release of WSJT-X version 2.1.0. This major upgrade formally introduces FT4 as a finished protocol for HF contesting. More information here.

#### HAPPENINGS

TechRepublic reports that the Raspberry Pi Foundation has confirmed that the recently released Raspberry Pi 4 will not work when powered using certain USB-C cables.

#### FT4 contests announced

The RSGB Contest Committee have announced a series of contests using the new digital mode FT4 There will be a series of three short duration events on 80m (dial frequency 3575 kHz USB) to allow entrants to experience this new mode. As this series is experimental, there are likely to be changes as we de-

velop experience with this mode, so please check the rules prior to each event. The objective is to score as many points as possible based on the the distance between stations (subject to a maximum score per QSO).

The contests will take place on:

- (1) Monday September 2, 2019, 19:00 - 19:59 UTC
- (2) Monday October 7, 2019, 19:00 - 19:59 UTC
- (3) Monday November 4, 2019, 20:00 - 20:59 UTC

Full details at <a href="https://">https://</a> www.rsgbcc.org/hf/rules/2019/ r80m ft4.shtml

Here is an interesting video about a "new" Chinese radio.

https://forums.grz.com/ index.php?threads/looking-at-achinese-clone-of-a-fantasticopen-source-sdrproject.666986/

**ARRL Membership Benefits** 

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YourCallSign@arrl.net E-mail sent to your arrl.net address will be forwarded to any email account

### ON THE AIR

PANAMA, HP1AVS, 21.074 14.074 10.136 7.074. OSL. Victor Sierra, P.O.Box 0830-00338, Panama City 0830, PANAMA. The special call sign H31A is being used to commemorate 500 years of the foundation of Panama City. Panama. The station will be available until August 15th 2019. We will be operating on 80 m to 10 m specially in digital modes (RTTY, PSK31 and FT8) and some SSB. QSL manager is HP1AVS. More information on QRZ. https:// www.grz.com/db/h31a

US Coast Guard 229th Birthday

Aug 4-Aug 5, 1400Z-0400Z, K1CG, Port Angeles, WA. USCG CW Operators Association. 21.052 14.052 7.052 3.552. QSL. QSL to , operator, contacted. fgoodwin@olypen.com or www.grz.com/db/k1cg

**D-Day Conneaut** 

Aug 15-Aug 18, 1600Z-0400Z, W8D, Conneaut, OH. Conneaut Amateur Radio Club. 14.285 7.190 3.996 3.885. OSL. Garret Scott W8D, 10236 Birch Hill Ln., Knoxville, TN 37932. D-Day Conneaut recognizes the 75th anniversary of the World War II Allied

D-Day Landings on the beaches of France in 1944. Event will include the country's largest reenactment of the D-Day landings with more than 1,800 WWII reenactors from around the world participating. Radio operations will include vintage WWII equipment.https:// www.facebook.com/W8BHZ

**Burnt Coat Harbor Lighthouse** International Lighthouse/ **Lightship Weekend** Aug 17-Aug 18, 0001Z-2359Z, W2DAR, Swans Island, ME. W2DAR. 40

meters, SSB, near 7.240 MHz,

power level 100 W. QSL. Ronald

Jocher, W2DAR, 24 Park Terrace, East Hanover, NJ 07936. #US0232 ILLW, Burnt Coat Harbor Lighthouse, 433 Harbor Rd.

The **CY9C** DXpedition team will arrive in Dingwall, Nova Scotia, in preparation for the DXpedtion to St. Paul Island. The dates for the DXpedition are July 31st-August 8th. Updates will be provided to the bulletins by Murray/WA4DAN or Randy/NOTG as well as at www.cy9c.com.

#### RF Connectors by Armando Delgado, KN4JN

There is a large host of different types of RF or coaxial cable connector. Some are in widespread use whereas others are less widely used. Some of those in widespread use and likely to be encountered in the standard electronics laboratory or by the hobbyist are:

BNC The BNC coax connector is widely used in professional circles being used on most oscilloscopes and many other laboratory instruments. The BNC connector is also widely used as an RF connector,

being used on RF test equipment, transmitters, receivers and almost any RF equipment. The BNC connector has a bayonet fixing to prevent accidental disconnection while being easy to disconnect when necessary. Electrically the BNC coax cable connector is designed to present a constant impedance and it is most common in its 50 ohm version, although 75 ohm ones can be obtained. It is recommended for operation at frequencies up to 4 GHz and it

can be used up to 10 GHz pro-

vided the special top quality versions specified to that frequency are used.

TNC connector: The TNC connector is a threaded version of the BNC. It was developed to provide low noise reliable connections especially in environments where there may be vibration.

**V-type** The N-type connector is a igh performance RF coax cable onnector used in many RF appliations. The N-type RF connector s larger than the BNC connector nd it has a threaded coupling interface to ensure that it mates correctly. It is available in either

50 ohm or 75 ohm versions. These two versions have subtle mechanical differences that do not allow the two types to mate. The connector is able to withstand relatively high powers when compared to the BNC connector. The standard versions are specified for operation up to 11 GHz, although precision versions are available for operation to 18GHz.



SMA connector: The SMA connector is a sub-miniature RF connector suitable for frequencies up to 12 GHz and more. The connectors are small and provide a reliable RF connection in view of the threaded attachment method. Although the specification depends upon the manufacturer and the actual part. these connectors are being used in many areas associated with RF and microwave circuitry.



SMB connector: The SMB connector is a smaller snap fit connector that can be used where a fast and easy form of connection is required. The connector is available in  $50\Omega$  and  $75\Omega$  versions and has a top frequency of around 4 GHz.

Precision, PC series of connectors: The precision series RF connectors are often designated by PC followed by the inner diameter of the outer conductor. They are normally used for very high very high frequency operation, with the top end being able to carry signals at 110 GHz. In view of their performance and the cost of manufacture,

these RF connectors are not cheap.

UHF connector (SO239 / PL259): The UHF connector is also sometimes known as the Amphenol coaxial connector. The plug may be referred to as a PL259 coaxial connector, and the socket as an SO239 connector as these were their original military part numbers. These coax cable connectors have a threaded coupling, and this prevents them from being removed accidentally. It also enables them to be tightened sufficiently to enable a good low resistance connection to be made between the two halves. he drawback of the UHF or Amphenol connector is that it has a non-constant impedance. This limits their use to frequencies of up to 300 MHz, but despite this these UHF connectors provide a low cost connector suitable for many applications, provided that the frequencies do not rise too much. Also very low cost versions are available for applications such as CB operation, and these are not suitable for operation much above 30 MHz. In view of their non-constant impedance, these connectors are now rarely used for many professional applications, being generally limited to CB, amateur radio and some video and public address sys-



F-type connector: The F-type connector is a low cost coax cable connector suitable for use up to 2 GHz and developed for domestic TV applications. The RF connector uses the coax centre conductor as the

main pin, and maintains a constant impedance across the connector, providing a combination of low cost and good performance.



**MCX connector:** The MCX connector is one of a number of micro-miniature RF connectors have been developed by a variety of manufacturers. The MCX connector name comes from the words MicroCoaX and it was developed in the 1980s by Huber and Suhner of which MCX is a trade name. The MCX connector has many similarities with the construction of the SMB connector.

The MCX connector is normally specified for operation up to 6 GHz, and it finds applications in a variety of arenas including equipment for cellular telecommunications, data telemetry. Global Positioning (GPS) and other applications where size and weight are important and frequencies are generally below 6 GHz.

MMCX connector: Another connector which is being widely used is the MMCX connector. Being some 45% smaller than an SMB connector, the MMCX is ideal where a low profile outline is a key element. It is therefore ideal for applications where board height is limited, including applications where boards may be stacked. As such it is being widely used in many cellular telecommunications applications. The connector provides a snap fitting and or articles to the Editor's email also utilizes a slot-less design to minimize leakage.

A more extensive coverage of connectors is found at

https://www.electronicsnotes.com/articles/ electronic\_components/rfconnectors/coax-cableconnectors.php



7 PM EST Slow CW: 5-15 WPM Mon. Wed. Fri

7 PM EST Fast CW: 35-10 **WPM** Tue, Thu

FREQUENCIES: 1.8025, 3.5815, 7.0475, 14.0475, 18.0975, 21.0675,

28.0675, 50.350, 147.555



## **Editor's Note:**

Send comments about the Newsletter or to contribute information address:

olardelga@aol.com.

				& SIMPLE			RACESBRE0008 REV B
eaters & Pack	et are open for all STD. NAME	licensed an	nateur radio o	perators to us	e.	estation.	NOTES
WBFM	SID. NAME	OFFSET	TONE/CC	CALL	LOCATION	OWNER	NOTES
145.130	190 VR	-600	107.2	AB4AZ	VERO BEACH, INDIAN RIVER	AB4AZ	
145.350		-600	109.5	KAOSC	St. CLOUD, OSCEOLA	KIXC	Radio Science Club, Fl Club
	370 CO	-600	156.7	W2SD8	COCOA-BROADCAST CT.	IRARC	Yaesu Repeater replaced with Bridgecom Fi
145.470		-600		KAHRS	MELBOURNE- RIALTO PL.	HIRAC	
	490 TI	-600	100.0	WN3DHI		WN3DHI	
146.610		-600	None/107.2	W4MLB	TITUSVILLE SR405 & Fox Ik rd. MELBOURNE- HOLMES HOSP	PCAIG	Tone Downlink only
146.625		-600		KE4NUZ	NW of MIMS NEAR HARRISON RD.	KE4NUZ	Limited coverage
146.775	775 MM	-600		K4KSC	NW of MIMS Hog Valley , W of 195	KAKSC	
146.850		-600		W4MLB	PALM BAY- Port Malabar Rd.	PCARS	Tone Downlink Only
146.880		-600		W4NLX	ROCKLEDGE- WUESTHOFF HOSP.	IRARC	FUSION Repeater replaced with Bridgecom
146.895		-600	107.2/107.2		PALM BAY- DeGroot Library	EOC	TSQL as of 5/2018
146.910		-600		K4KSC	TITUSVILLE Water Tower on south st.	TARC	
146.940		-600		K4GCC	ROCKLEDGE Carver Rd.WLRQ Tower	LISATS	
146.970		-		K4KSC	TITUSVILLE-TVILLE TOWERS	TARC	W. C
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	255 PB	4600		KADCS	Near Babcock & Palm City S City limit	PBARC	
	330 TI	+600		KANBR	TITUSVILLE-PARRISH HOSP.	NBARC	<del>                                     </del>
	360 TI	+600		NATOX	TITUSVILLE-PARRISH HOSP.	NBARC	DSTAR Gateway in work
442.850	850TI4		107.2/107/2		TITUSVILLE-PARRISH HOSP.	NBARC	TSqLFUSION/WBFM/WIRES-X
444.325		+5000	107.2	KADCS	MELBOURNE-TRINITY TWRS-E	PBARC	
	CNLBRE	+5000	107.2		195 FDT Twr 1/2 Mile N of County Line	SARNET	"SARNet Sebastian Repeater"
444.425	425ME4	+5000	107.2	W4MLB	MELBOURNE- RIALTO PL.	PCARS	
444.525	525RO4	+5000	108.5/108.5	KAEOC	ROCKLEDGE-EOC	EOC	TSql; VOICE/NBEMS
444.650	CNMBRE	+5000	107.2	W4NLX	COCOA-FHP SR520	IRARC	"SARNet Cocoa Repeater"
444.750	750TM	+5000	156.7/156.7	NATEX	TITUSVILLE-TGO WATERTOER 230 ft	NBARC	TSql
444.875	875MI4	+5000		KC2UFO	MERRITT IS, COURTNEY SPRS.	K4UZM	
444.925	925KS4	+5000	131.8/131.8	N1K5C	KENNEDY SP. CTRVAB	KSCARC	FM Tsql; P25 capable
224.120	120002	-1600	123.0	AAACD	COCOA Broadcast CL	AAACD	
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