



INDIAN RIVER ARC

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

VOLUME XLV, NUMBER 2

SPURIOUS EMISSIONS

FEBRUARY, 2023

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KN4JN

CLUB MINUTES

The meeting was called to order by President Steve Luchuk, N4UTQ at 7:19 PM. Following the Pledge of Allegiance, Steve introduced visitors. Tonight, new hams present were Dan, KQ4EYB and Lou, KQ4EYQ. Steve then proceeded to give the President's Report.

Last month, the club participated in Winter Field Day. Antenna set up began in the morning on Saturday, January 29 and operations started at 2:00 PM and extended until about 8:00 PM, when we had to clear the room for next day's church activities. In all we made multiple contacts in phone and CW and had a great social activity as well.

Next, the Treasurer's Report: The club started the year with \$1071.11 in the checking account and added \$488.00 in January for a final of \$1598.65. The Equipment Fund also saw an increase of \$20.00 from a donation for a total of

\$1903.65. The Treasurer's Report was approved for audit.

The minutes of the January meeting were then approved.

Past President, Viron, N4VEP reported that the club held a QRP event at Manatee Cove Park last Saturday, February 19, with several members participating.

Following the business meeting, Steve gave a presentation on the QRP event at Manatee Park. He showed several pictures of participants and their antennas. Sandy brought a loop antenna, Greg, AB4GO a Buddy Pole that he configured as a half-wave horizontal dipole and raised to about 25 feet. Viron used a Chameleon EMCOMM III Portable antenna. A discussion then followed on the advantages and disadvantages of different antennas for QRP use.

Following this part of the pres-

entation, Steve went on to show pictures of many QRP radios available on the market or on eBay.

The meeting adjourned at 8:15 PM and members proceeded to the back of the room where a show-and-tell set up of radios and QRP gear was displayed by some of the members.

Respectfully submitted by
Armando Delgado, KN4JN
Secretary

HAPPENINGS

Amateur Radio Operations at the US Military The Service Academies Radio Group (SARG) was recently formed for alumni and amateur radio operators who are interested in the five U.S military academies. William Curry, W5CQ, founder and net control operator for the SARG Net, said two months ago there was a new interest in forming a group and net. He noticed that only one military academy, West Point, W2KGY,

was still operating a club station. At one time, every military academy had an operating club station. The SARG net meets every Thursday at 2200 UTC on 7.280 MHz, and every Saturday at 1600 UTC on 14.338 MHz. All amateur radio operators, whether they are veterans, or just have an interest in the military or history of the academies, are invited. For additional information about the SARG Net, contact Curry at

w5cq@arrl.net.

HAARP Thanks Amateur Radio Operators for Help with Latest Experiment

On Tuesday, December 27, 2022, the High-frequency Active Auroral Research Program (HAARP) conducted its latest ionospheric bouncing radio signals off an asteroid passing near Earth's orbit. Amateur radio operators and radio astronomy enthusiasts

were invited to monitor the test and send their results to HAARP for analysis. While the results of the experiment will take several weeks, Jessica Matthews, HAARP Program Manager, said the help was greatly appreciated. "So far we have received over 300 reception reports from the amateur radio and radio astronomy communities from six continents who confirmed the

HAPPENINGS

HAARP transmission." HAARP officials say the results of the experiment could aid efforts to defend Earth from larger asteroids that could cause significant damage. "We will be analyzing the data over the next few weeks and hope to publish the results in the coming months," said Mark Haynes, lead investigator on the project and a radar systems engineer at NASA's Jet Propulsion Laboratory in California. "This experiment was the first time an asteroid observation was attempted at such low frequencies," he said.

Another big dxpedition will take place starting towards the end of March, 2023. The expedition to Sable Island, CYOC was supposed to take place two years ago, but COVID-19 came along and put an end to the event before it happened. Now, three years later, it may take place.

Sable island is a small island off the coast of Nova Scotia, about 190 miles southeast. It is not uninhabited, but it is mostly a Canadian National Park Reserve with limited access.

The dxpedition, as planned, should take place between March 20-29, 2023. It is composed of team WA4DAN, K4UEE, WOGJ, K5YY, N2IEN, N2TU, K4ZLE, W4DKS,

WW2DX and they plan to operate on all bands and modes, including digital, EME, and satellite. QSL via WA4DAN, ClubLog OQRS, LOTW

In Poland, from February 17 - March 5, 2023, the [Polish Amateur Radio Union](#) (PZK) will operate nine special event stations honoring the 550th anniversary of the birth of Nicolaus Copernicus. Copernicus mapped the universe and formulated a model that placed the sun, rather than Earth, at its center.

The nine special event stations will operate from February 17 at 00:00 UTC to March 5 at 23:59

UTC, using the following call signs: SN550K, SN5500, SN550P, SN550E, SN550R, SN550N, SN550I, SP550K, and SN550NC.

The ARRL International DX Contest, SSB portion, will be on the weekend of March 5-6. The contest starts at 0000 UTC, March 5, that's 7:00 PM local time on Friday, March 4. Rules and details [here](#). This is a fun contest with a brief exchange and with new band openings lots of DX contacts are possible.

On March 25 Bob Luken, W3RDL will begin a class for General license at Hobb's Pharmacy on Merritt Island, starting at 9:30 AM

ON THE AIR

19th annual "Freeze Your Keys" winter operating event Feb 25, 1400Z-2200Z, WOEBB, Leavenworth, KS. Kickapoo QRP Amateur Radio Club. 7.035 CW 7.240 SSB 14.058 CW 14.325 SSB. QSL. Gary Auchard, 34058 167th Street, Leavenworth, KS 66048. wOma74@gmail.com

100 Years of WWV Time and Frequency Broadcasts Mar 6-Mar 12, 0000Z-2359Z, WWOWWV, Various towns and

states. WWV Amateur Radio Club. 7.048 7.248 14.048 14.248. QSL. WWV ARC, PO Box 273226, Fort Collins, CO 80527. This is an operating event, on all HF bands, CW, SSB and standard digital mode frequencies. QSL via LOTW, OQRS and PO Box 273226, Fort Collins, CO 80527 www.wwv.org

74th Anniversary of Merci Train Boxcar Feb 1-Feb 28, 0000Z-0000Z, NV7AL, Las Vegas, NV. American Legion Paradise Post 149 and 40&8 Voiture 306. 7.074 7.250 14.074 14.250.

QSL. Robert Bencsko - AD7J, 2548 Fort Lauderdale Drive, Las Vegas, NV 89156. This special event station is set up to raise awareness of the 40&8 "MERCY Train Boxcar" 74th Anniversary Watch for us on DX Summit QSL with SASE to AD7J <https://www.qrz.com/db/NV7AL>

Worldwide Antarctic Program Feb 19-Feb 26, 0000Z-0000Z, K4C, McDonough, GA. Worldwide Antarctic Program. 14.270 MHz 21.270 MHz

28.470 MHz 7.170 MHz. QSL. Robert Hines, K4MZU, 1978 Snapping Shoals Rd, McDonough, GA 30252. Annual celebration for over 50+ years of US amateur radio activity in Antarctica. www.qrz.com/db/k4c

100 Years of Organized Amateur Radio on Sydney's Northern Beaches All bands, all modes. QSL See website, for, information, AUSTRALIA. February 26, 2023 through February 25, 2024 www.qrz.com/db/vi100mb or <https://www.mwrs.org.au>

The VEC by Armando Delgado, KN4JN

When the FCC was created in 1934, it was tasked with regulating and licensing all radio activities in the United States, including amateur radio. The FCC developed for the amateur radio license a required knowledge test and a Morse code qualification, each test designed for the license level being applied for. The qualifying exams were given by FCC examiners at regional FCC offices. Unfortunately, FCC offices were located in major regional cities and ham applicants many times had to travel many miles to get tested. As time went by, the number of potential amateur applicants increased

and the FCC budget for amateur examiners proportionately decreased. A crisis of sorts came about in the 1980's when the FCC had a budget crunch. Through the efforts of ARRL, Senator Barry Goldwater (K7UGA-SK) a very active ham, and others, the VEC system was created to ensure the ability for the Amateur Service to continue to grow and prosper. The Volunteer Examiner Coordinator system privatized the FCC licensing process for amateur radio. Thus, it

opened the doors for more availability of exams and examiners for licensing. VECs coordinate the efforts of Volunteer Examiners (VEs) in preparing and administering amateur service operator license examinations. The coordinating VEC screens collected information, resolves all discrepancies, and forwards all required data to the FCC electronically. All VECs are authorized to coordinate examination sessions at any location an examination can be administered. A

VEC, however, may choose to limit its area of operation to a particular geographical area.

Many hams think the ARRL is the only VEC available, but there are many more. Actually, there are 14 VEC regions, each operating in different parts of the nation and at times overlapping in their coverage.

| Region | States & Other Areas: |
|--------|--|
| 1 | Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island and Vermont |
| 2 | New Jersey and New York |
| 3 | Delaware, District of Co- |

lumbia, Maryland and Pennsylvania
 4 Alabama, Florida, Georgia, Kentucky, North Carolina, South Carolina, Tennessee and Virginia
 5 Arkansas, Louisiana, Mississippi, New Mexico, Oklahoma and Texas
 6 California
 7 Arizona, Idaho, Montana, Nevada, Oregon, Utah, Washington and Wyoming
 8 Michigan, Ohio and West Virginia
 9 Illinois, Indiana and Wisconsin
 10 Colorado, Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota and South Dakota
 11 Alaska
 12 Caribbean Insular areas
 13 Hawaii and Pacific Insular areas
 14 (unofficial). Outside the United States
 And the VEC groups are multiple:
 Anchorage ARC VEC
 P.O. Box 190192
 Anchorage, AK 99519
 P: (907) 632-3963
 E: vec@kl7aa.org
 American Radio Relay League (ARRL)
 225 Main Street
 Newington, CT 06111-1494
 P: 860-594-0300
 F: 860-594-0339
 E: VEC@arrl.org
 Central America CAVEC, Inc.
 1204 Governors Dr SE
 Huntsville, AL 35801
 P: 256-509-5271
 E: CAVEC.Org@gmail.com
 Golden Empire Amateur Radio Society (GEARS)
 P.O. Box 508
 Chico, CA 95927-0508
 P: 530-893-9211
 E: myw6js@gmail.com
 Greater L.A. Amateur Radio Group
 POB 500133
 Palmdale, CA 93591
 P: 661-264-1863
 E: vec@glarg.org
 Jefferson Amateur Radio Club
 P.O. Box 73665
 Metairie, LA 70033
 E: w5gad.vec@w5gad.org
 P: 504-636-8809

Laurel Amateur Radio Club, Inc.
 5287 W Belmont Rd
 Tucson, AZ 85743
 P: 520-664-5070
 E: aa3of@arrl.net
 MRAC VEC, Inc. (Milwaukee)
 2505 S. Calhoun Rd., #203
 New Berlin, WI 53151
 E: MRACVEC@gmail.com
 MO-KAN VEC Coordinator
 6850 Deer Ridge Dr.
 Shawnee, KS 66226
 P: 913-526-9151
 E: w0ser.radio@gmail.com
 Sandarc-VEC
 5511 Maryland Ave
 La Mesa, CA 91942-1519
 P: 619-843-3747
 E: n6nyx@arrl.net
 Sunnyvale VEC Amateur Radio Club, Inc.
 P.O. Box 60307
 Sunnyvale, CA 94088-0307
 P: 408-255-9000
 E: vec@amateur-radio.org
 W4VEC Volunteer Examiners Club of America
 P. O. Box 41
 Lexington, NC 27293-0041
 P: 704-279-8567
 Contact: Billy Stewart
 E: bstewart@windstream.net
 W5YI-VEC
 P.O. Box 200065
 Arlington, TX 76006-0065
 P: 800-669-9594
 Contact: Larry Pollock
 E: NB5X@w5yi.org
 Western Carolina Amateur Radio Society VEC, Inc.
 417 Ivy Hill Rd.
 Weaverville, NC 28787
 P: 828-658-0261
 E: n4set.wnc@frontier.com

VEC's manage the examination process through Volunteer Examiners (VEs) that they certify to carry on the exams. The volunteer examiners are responsible for the proper conduct and necessary supervision of examinations, including:
 Observing the examinees throughout the entire examination.
 Determining the correctness of answers.
 Issuing a Certificate of Success-

ful Completion of Examination (CSCE) when the examinee scores a passing grade. Terminating the examination if examinees do not comply with their instructions.

Volunteer Examiners are Amateur Extra Class radio operators who volunteer their time and talent to prepare and administer amateur radio operator license examinations. A VE is a person at least 18 years of age whose license has never been revoked or suspended. Close relatives, however, cannot be an examinee's VE. Each VE, moreover, has been accredited by a Volunteer-Examiner Coordinator (VEC). The examination for a Technician Class operator license grant can also be prepared and administered by Advanced and General Class operators. Advanced Class licensees may also prepare and administer General Class license examinations. Although General and Advanced class hams can give some exams, most VEC's prefer VEs to be Amateur Extra class because most exam sessions involve multiple examinees applying for different classes of license and if accidentally the wrong license VE were to grade the wrong exam, that could invalidate the new license and the applicant could have to retake the exam under the proper conditions. Exam sessions require no less than three VEs present, and three VEs must grade each exam and concur on the number of correct answers. Those three VEs will then sign the CSCE, if the applicant passes the exam.



W1AW CW PRACTICE TRANSMISSIONS

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



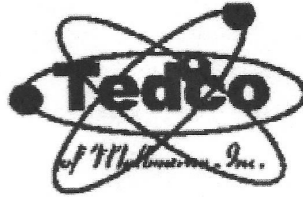
Editor's Note:

Send comments about the Newsletter or to contribute information or articles to the Editor's email address:

olardelga@aol.com.

| ACTIVE REPEATERS INCLUDING DMR, PACKET & SIMPLEX | | | | | | | RACESBRE0008 REV B |
|---|-----------|---------|-------------|----------|---|-------------|---|
| Repeaters & Packet are open for all licensed amateur radio operators to use. | | | | | | | |
| OUTPUT FREQ. | STD. NAME | OFFSET | TONE/CC | CALL | LOCATION | OWNER | NOTES |
| WBFM | | | | | | | |
| 145.130 | 130 VB | -600 | 107.2 | AB4AZ | VERO BEACH, INDIAN RIVER | AB4AZ | |
| 145.350 | 350 SC | -600 | 103.5 | K4OSC | St. CLOUD, OSCEOLA | K1XC | Radio Science Club, FI Club |
| 145.370 | 370 CO | -600 | 156.7 | W2SDB | COCOA-BROADCAST CT. | IRARC | Yaesu Repeater replaced with Bridgecom FM |
| 145.470 | 470 ME | -600 | 107.2 | K4HRS | MELBOURNE- RIALTO PL. | HIRAC | |
| 145.490 | 490 TI | -600 | 100.0 | WN3DHI | TITUSVILLE SR405 & Fox lk rd. | WN3DHI | |
| 146.610 | 610 ME | -600 | None/107.2 | W4MLB | MELBOURNE- HOLMES HOSP | PCARS | Tone Downlink only |
| 146.625 | 625 MM | -600 | 100.0 | KE4NUZ | NW of MIMS NEAR HARRISON RD. | KE4NUZ | Limited coverage |
| 146.775 | 775 MM | -600 | 100.0 | K4KSC | NW of MIMS Hog Valley , W of I95 | K4KSC | |
| 146.850 | 850 ME | -600 | None/107.2 | W4MLB | PALM BAY- Port Malabar Rd. | PCARS | Tone Downlink Only |
| 146.880 | 880 RO | -600 | 107.2 | W4NLX | ROCKLEDGE- WUESTHOFF HOSP. | IRARC | FUSION Repeater replaced with Bridgecom F |
| 146.895 | 895 PB | -600 | 107.2/107.2 | K4EOC | PALM BAY- DeGroot Library | EOC | TSQL as of 5/2018 |
| 146.910 | 910 TI | -600 | 107.2 | K4KSC | TITUSVILLE Water Tower on south st. | TARC | |
| 146.940 | 940 RO | -600 | None | K4GCC | ROCKLEDGE Carver Rd.WLRQ Tower | LISATS | |
| 146.970 | 970 TI | -600 | 107.2 | K4KSC | TITUSVILLE-T'VILLE TOWERS | TARC | |
| 147.075 | 075 SC | +600 | 107.2/107.2 | K4EOC | SCOTTSMOOR Near US1-Aurantia Rd | EOC | TSQL as of 5/2018 Relocated 4/2019 |
| 147.135 | 135 RO | +600 | 107.2/107.2 | K4EOC | ROCKLEDGE-EOC | EOC | TSql as of 5/2018 |
| 147.240 | 240 DE | +600 | 123.0 | KV4EOC | DELAND | VARES | |
| 147.255 | 255 PB | +600 | 107.2 | K4DCS | Near Babcock & Palm City S City limi | PBARC | |
| 147.330 | 330 TI | +600 | 107.2 | K4NBR | TITUSVILLE-PARRISH HOSP. | NBARC | |
| 147.360 | 360 TI | +600 | 107.2 | N4TDX | TITUSVILLE-PARRISH HOSP. | NBARC | DSTAR Gateway in work |
| 442.850 | 850TI4 | +5000 | 107.2/107.2 | N4TDX | TITUSVILLE-PARRISH HOSP. | NBARC | TSql;FUSION/WBFM/WIRES-X |
| 444.325 | 325ME4 | +5000 | 107.2 | K4DCS | MELBOURNE-TRINITY TWRS-E | PBARC | |
| 444.375 | CNLBRE | +5000 | 107.2 | | 195 FDT Twr 1/2 Mile N of County Lin | SARNET | "SARNet Sebastian Repeater" |
| 444.425 | 425ME4 | +5000 | 107.2 | W4MLB | MELBOURNE- RIALTO PL. | PCARS | |
| 444.525 | 525RO4 | +5000 | 103.5/103.5 | K4EOC | ROCKLEDGE-EOC | EOC | TSql; VOICE/NBEMS |
| 444.650 | CNMBRE | +5000 | 107.2 | W4NLX | COCOA-FHP SR520 | IRARC | "SARNet Cocoa Repeater" |
| 444.750 | 750TI4 | +5000 | 156.7/156.7 | N4TDX | TITUSVILLE- TGO WATERTOER 230 ft. | NBARC | TSql |
| 444.875 | 875MI4 | +5000 | 107.2 | KC2UFO | MERRITT IS. COURTNEY SPRS. | K4UJZM | |
| 444.925 | 925KS4 | +5000 | 131.8/131.8 | N1KSC | KENNEDY SP. CTR.-VAB | KSCARC | FM Tsql ; P25 capable |
| 224.120 | 120CO2 | -1600 | 123.0 | AA4CD | COCOA Broadcast Ct. | AA4CD | |
| DMR | | | | | | | |
| 444.150 | 150TI4 | +5000 | CC1 | K2JO | TITUSVILLE-PARRISH HOSP. | KC2CWT | DMR FL |
| 444.575 | 575CO4 | +5000 | CC3 | K4DJN | COCOA BROADCAST CT. | AA4CD | DMR Brandmeister |
| 444.675 | 675TI4 | +5000 | CC3 | K4DJN | TITUSVILLE-T'VILLE TOWERS | AA4CD | DMR Brandmeister |
| ATV | | | | | | | |
| 427.250 | 250CO4 | | | K4ATV | COCOA BROADCAST CT. | LISATS | NTSC INPUT 439.25 See www.lisats.org |
| PACKET STATIONS: | | | | | | | |
| 145.090 | W12KPB | WINLINK | | W2PH-10 | PALM BAY-W2PH QTH | PBARC | WINLINK GATEWAY |
| 145.090 | 090 ME | PCARS | | W4MLB-2 | MELBOURNE-TRINITY TWRS-EAST | PCARS-K1YON | BBS W4MLB-4 EASTNET |
| 145.770 | 770 PB | SEDAN | | K4EOC-7 | PALM BAY | N2DB | http://www.fla-sedan.com |
| 145.770 | 770 TI | SEDAN | | KD4MWO-4 | TITUSVILLE | N2DB | INACTIVE NODE |
| BREVARD RACES/ARES SIMPLEX | | | | | | | |
| 146.480 | CENTX | SIMPLEX | | N/A | CENTRAL REG | IRARC | CENTRAL NET SIMPLEX BACKUP |
| 146.550 | SOUTHX | SIMPLEX | | N/A | SOUTH REGION | PBARC | SOUTH NET SIMPLEX BACKUP |
| 146.580 | MLBX | SIMPLEX | | N/A | MELBOURNE REGION | PCARS | MELBOURNE REGION NET SIMPLEX BACKUP |
| 146.595 | NORTHX | SIMPLEX | | N/A | NORTH REGION | TARC | NORTH NET SIMPLEX BACKUP |
| 147.540 | EOCROX | SIMPLEX | | N/A | RACES Bay | EOC | EOC VOICE/NBEMS |
| SIMPLEX | | | | | | | |
| 146.520 | CALL52 | SIMPLEX | | N/A | Station to station, anywhere | | VHF national simplex calling freq |
| 146.490 | TAC A | SIMPLEX | | N/A | Station to station, anywhere | | Standardized tactical option since 2006 |
| 146.560 | NBRX | SIMPLEX | | N/A | NBARC -Club/Parrish Hosptial Activities | | |
| 146.580 | TAC B | SIMPLEX | | N/A | Station to station, anywhere | | Standardized tactical option since 2006 |
| 147.420 | TAC C | SIMPLEX | | N/A | Station to station, anywhere | | Standardized tactical option since 2006 |
| 147.420 | IRARCX | SIMPLEX | | N/A | IRARC 'FUN NET" and CLUB ACTIVIES | | |
| 147.450 | TAC D | SIMPLEX | | N/A | Station to station, anywhere | | Standardized tactical option since 2006 |
| 147.570 | TAC E | SIMPLEX | | N/A | Station to station, anywhere | | Standardized tactical option since 2006 |
| 446.000 | CALL46 | SIMPLEX | | N/A | Station to station, anywhere | | UHF national simplex calling freq |
| 446.500 | TAC A4 | SIMPLEX | | N/A | Station to station, anywhere | | Standardized tactical option since 2006 |
| 446.600 | TAC B4 | SIMPLEX | | N/A | Station to station, anywhere | | Standardized tactical option since 2006 |
| 446.700 | TAC C4 | SIMPLEX | | N/A | Station to station, anywhere | | Standardized tactical option since 2006 |
| 2 Meter & 70 cm WBFM repeaters use CTCSS; if one frequency is listed it is for uplink (user Tx) , if two are listed the repeater is set for uplink and downlink (user Tx and user Rx) | | | | | | | |
| Repeater Call Signs in bold are owned by Brevard Emergency Management and are maintained by the county. Repeater Trustee: Ron K2RJ | | | | | | | |
| NOT ON AIR | | | | | | | |
| Standard Names in Bold are recommended for Emergency Radio in Brevard * | | | | | | | |
| PBARC= Palm Bay Amateur Radio Club (Replaces DCS for South Brevard) See Ed W2PH for more info | | | | | | | |

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ARRL
ASTATIC
ASTI

BEARCAT
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BUSSMAN FUSES
BUD

C.B.RADIO
CALRAD
CORNELL DUBILIER
CELLPHONE AMPS
CHICAGO MINIATURE
CINCH JONES
CLOVER
COBRA
CUSHCRAFT

DALBANI
DECIBEL PRODUCTS
DENNISON
DURACELL
DANTONA IND.

ECG (SEE NTE)
ELECTRONIC RESOURCES
ELECTROVOICE
EVEREADY

FANON-INTERCOMS
FLUKE (WAVETEK)

GC ELECTRONIC
GALAXY
GOLDLINE

HAM RADIO
HARADA
HITACHI
HYGAIN

ICOM RADIO

JSC WIRE
JW DAVIS SOUND
JVC PARTS

KENWOOD RADIO
KOSS
KESTER

LITTELFUSE
LOWELL

M & G
MALLORY
MACOM
MAXON
MIDLAND
MOTOROLA

NTE TRANSISTORS
NELLO TOWERS
NTE ELECTRONICS
NORMAN LAMPS

PANASONIC
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PHILMORE
PIONEER
POMONA
POWERSONIC
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PROAM ANTENNAS

QUAM
QUEST

RANGER RADIO
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UNION CARBIDE

VARCO
VALOR
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VIDEO EQUIPMENT

W2AU BALUNS
WALDOM - MOLEX
WAHL-CLIPPER
WAVETEK (BECKMAN)
WILSON ANTENNAS
WILSON ELECTRONICS

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WEB PAGE:
www.tedcoelectronics.com

EMAIL:
tedco@bellsouth.net

Hours:
MON - FRI 9 AM - 5 PM
SATURDAY 9AM-3PM

TED - W4LR - GENERAL MGR.

DOTTIE - OFFICE MANAGER