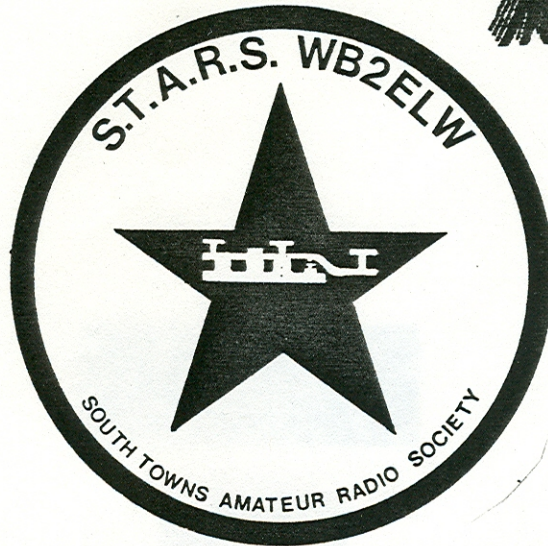


TELSTAR

~~MAY~~ 1989 #102

KB2EQV
STEVE YEKICH
716-825-8049



BUSINESS MEETING = 4th OF MAY = 1930 = YOUTH CENTER
BOARD MEETING = 30th OF MAY = 1900 = YOUTH CENTER

ROCHESTER HAMFEST MAY 19,20,21
LANCASTER HAMFEST JUNE 4 DEPEW GROVE

GOSSIP COLUMN

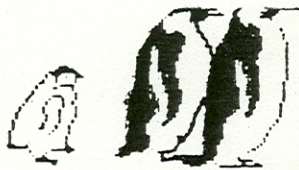
May is the month that the Nike Base is opened up for business for the summer. As a rule it has been opened up on Monday evenings, but any other day is OK also. There will be a new chairman of the Nike Base, Nick N2IBC had a health problem and had to be operated on. He is recovering very nice and I would not be surprised to see him at the Nike Base some time. May 8th will bring the equipment from the Youth Center to the base.

Well I guess everyone is anxious to get started on their antenna farm now that the weather is better. This month we will discuss the G5RV all band dipole antenna. Now I do not take any credit for this design, it has been around for over 15 years in one form or another. The sketches that are enclosed are through the courtesy of C.Q. magazine which has reviewed this ant. in different designs that were submitted to them from various hams. Remember this ant. is no good without a Ant.tuner for maximum output. So take a crack at constructing one and let me know how you make out OK? Only one thing I have to say about it: Its cheap to make, its simple to operate and it works. So study the sketches, materials are easy to come by also.

How many of you knew Irv Sugg WA2WBK a club member. He is a silent key and Mrs Sugg would like to get rid of his ham equipment. Enclosed in this issue is a list plus some articles that I have for sale also, so give her a call or see me for more details.

See you all May 4th.

Guz WB2EZU



VE REPORT

by Dick Haungs W2UJR

The next STARS VE test session will be on Oct. 11, 1989 at the Hamburg Junior High School, Rooms 117/119, 7:00-10:00PM.

The Lancaster Amateur Radio club will hold VE test sessions on May 17 and June 21, 1989 at the Aurora Middle School room 107, 7-10PM, 148 aurora st. Lancaster NY. Please send your completed 610 Form, a check for \$4.75 made out to ARRL/VEC, a copy of your license and a copy of any upgrade or credit certificate that you may have. Also please indicate what exam elements you want to take, there will be NO WALKINS. Send Info

TO: VE contact: Matt Gorski NS2M
6117 Broadway
Lancaster NY, 14086

Dick Haungs W2UJR
VE Liaison

HAM GEAR

Amateur related gear

- A1-Yaesu 757GX plus 20 amp power supply and tuner plus 3 mikes and manuals
- Heath Kit SB230 Linear amp- complete with manuals
- Kenwood TR-7950-2mtr 45 watt T&R with mike, power cord and manuals
- Atlas 210 all band mobile
- Astron RS12A - 12VDC power supply
- KLM Electron #70- 2mtr amp. 10in=70 watts out, complete

Plus various antennas, mobile, Ground mount, Roof mount & other small accessories like SWR meters-Mfj units ETC.ETC

June Sugg c/o Irv Sugg WA2WBK-674-4087 call between 1PM AND 9PM

- C2-Info-Tech: Complete teletype(RTTY) Amtor, ASC11 and CW. Note you can send CW on the #300 Keyboard instead of keys and see it on 9" monitor scope for display of all signals plus manuals & some patch cords.
- Heavy duty Variac with AC meter to check incoming and outgoing voltages.
- Cassette tape: Pioneer KT201 with built in mike, counter. Use with AC, DC or Battery. Heathkit Dummy load with Built in RF probe for neutralizing final

-Guz WB2EZU- -627-3724- call between 10AM to 10PM-

- K3-Wanted: Simple X-Y oscilloscope as a tuning indicator displaying audio signals.

-N2ETH 97 Tindle Ave. Buffalo, N.Y. 14224-

- L4-Uniden PC-244 10Meter converted mobile radio plus extra's \$200
- Ramsy 2Meter Amplifier 35plus watts \$40

-----GARY KB2ESN- -823-0055-----

FROM THE EDITOR.....

Well I hope everyone is enjoying the Telstar. It's been quite an experience for my self. I would like to thank Frank WG2H and John KA2RFT for the help they have given to me. Due to copy machine being down, this months Telstar is only one-sided, next month it should be back to normal. If anyone has anything to put in the telstar like ads or tech articles just give me a call on the repeater, letter or phone and I'd be glad to put it in for you. Until then 73's and well see you at the meeting on the 4th of May.

-Steve KB2EQV- -Editor-

#1

THE 6SRV

When copies of the Antenna Compendium arrived from the ARRL, I couldn't resist grabbing a copy. Right there was an article by Louis Varney, the real honest to gosh 6SRV. He's one of the very few hams to have the honor of being named after an antenna!

Pretty interesting reading, it was, too! 6SRV and a lot of his imitators certainly disagree as to the virtues and operating principles of the 102' wonder.

So, here is some of what I learned. If you want to read the article, it is in the ARRL Antenna Compendium, Volume 1, page 86.

The 6SRV is a 1.5 wave center fed antenna with a design frequency somewhere in the 20 meter band. The stub is 1/2 wave length at the same frequency. All things being equal, and they are on 20 meters, the antenna provides a reasonable SWR. Unlike trap antennas, and most other multi-band antennas, the 6SRV uses its entire length on all bands. On all the bands, 40 meters and above, the 6SRV is longer than a half wave length long. This is a delightful consequence resulting in improved DX capabilities above 80 meters.

On the 40 and 30 meter bands, the 6SRV is 2 half waves in phase. On 80 meters, it is a shortened dipole, and the stub acts as a matching device. On 40 meters, the stub is .25 wave lengths long. It works to convert the very high impedance of the two half waves in phase to lower impedance, closer to 50 ohms. The match is not perfect, though, and the stub presents a reactive load to the coax on most bands. My measurements confirm this, and I recommend using a Transmatch with the 6SRV. Some rigs with tube finals are quite tolerant of SWR and will work well with this type antenna without a transmatch. In my tests, I used a Kenwood TS-820S that worked well on all bands.

One of the nice features of the 6SRV is its coax feed. Coaxial cable is more convenient to use than the open wire or ladder line often used in all band antennas. Also, a lot of Transmatches do not have balanced output and many that do, shouldn't. The RADIO WORKS' version of the 6SRV does not require a balanced output tuner. You can use it with almost any Transmatch, including that neat little "automatic tuning unit" that some rigs now offer.

One short caveat though, the VSWR may, under some conditions, still get a little out of the range of some "automatic tuners".

The New 6SRV



51'

51'

The RADIO WORKS' 6SRV

- ‡ #14 Hard Drawn Antenna Wire
- ‡ Glass-filled Insulators
- ‡ Poly-Coated Tuned Stub
- ‡ 200' Green Nylon Line
- ‡ 70' RG-8x High Qual. Coax
- ‡ Coax-Seal keeps things dry
- ‡ Easy to follow instructions
- ‡ Little Antenna - BIG SIGNAL!

30' POLY COATED STUB

INTEGRATED C1-2K BALUN

\$59.95

APPROX 70' RG-8x

The RADIO WORKS' NEW 6SRV embraces two outstanding improvements. First, I have integrated a special balun right into the coaxial feed line. This balun serves as the interface between the unbalanced coaxial feed line and the balanced stub. The second improvement is the choice and length of matching stub and RG-8x feed line combination. Since the matching stub is reactive on most bands, certain lengths of feed line produced unsatisfactory performance on some bands. After careful analysis, I was able to manage this condition with very critical and careful measurement and choice of both the stub and the feed line. The overall feed line and matching stub length is approximately 120 feet.

Beyond the technical improvements of the RADIO WORKS' 6SRV lies the real beauty of this terrific antenna system: FREEDOM! Freedom from feed line complication plus the frequency agility of a Transmatch, added to the short 102 foot antenna length, all add up and you have a real WINNER!

The performance is similar to that of our "Double Zepp" on most bands.

PUT UP A RADIO WORKS' 6SRV AND GET READY TO LOG SOME GREAT SIGNAL REPORTS. Be sure to answer the QSL requests!

STAND OUT FROM THE CROWD WITH THE OUTSTANDING NEW 6SRV!

The RADIO WORKS Box 6159 Portsmouth, VA. 23703 (804) 484-0140

OFFICERS AND BOARD OF DIRECTOR

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FIN. SECY. = FRANK MODZELEWSKI = WG2H
DIRECTOR = NICK STANKO = N2IBC
DIRECTOR = VOIT DRANKAN = KA2WIO

BUSINESS MEETING = 1st THURSDAY

1930 Hours (7:30) = YOUTH CENTER

BOARD MEETING = 4th TUESDAY

1900 HOURS = YOUTH CENTER

S.T.A.R.S. NETS

75 METER NET = EACH SATURDAY AT

1000 HOURS = +/- 3925 KHZ

2 METER INFO NET = EACH WEDNESDAY AT

1900 HOURS = 147.69/.09

10 METER NET = EACH TUESDAY AT

2000 HOURS = +/- 28.420 KHZ

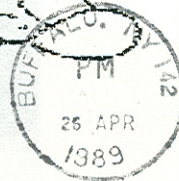
E3



DUES REMINDER

Single \$15
Family \$23
Student \$8

Frank Modzelewski WG2H
1818 Clinton St.
Buffalo, NY 14205

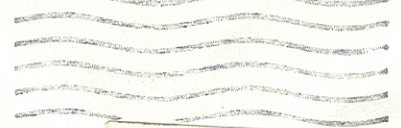


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