

# *The* MODULATOR

The Baltimore Amateur Radio Club, Inc.  
P.O. Box 120  
Reisterstown, MD 21136-0120

The Baltimore Amateur Radio Club  
Repeater System **W3FT**

Frequency	PL
146.07/146.67	107.2
222.64/224.24	107.2
444.625/449.625	107.2

**simplex:** 146.55

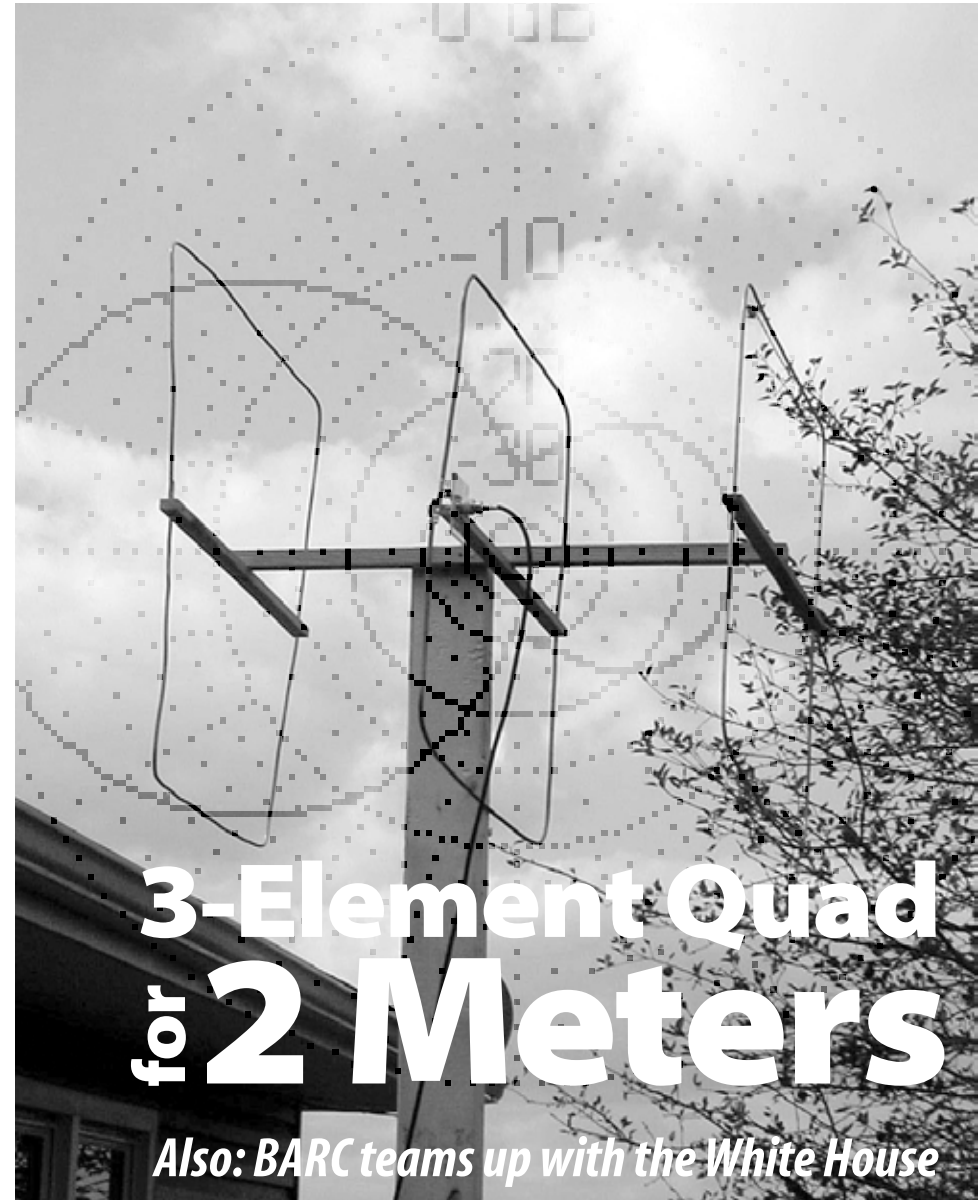
**web:** <http://www.baltarc.com>

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# *The* MODULATOR

December 2006 Vol. 60, No. 12

Newsletter of the Baltimore Amateur Radio Club



## 3-Element Quad for 2 Meters

*Also: BARC teams up with the White House*

# The MODULATOR

published by *The Baltimore Amateur Radio Club*  
P.O. Box 120  
Reisterstown, MD 21136

For Information, dial **410-HAM-TALK**  
Club website: <http://www.baltarc.com>  
Hamboree website: <http://www.gbhc.org>

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Items for *The Modulator* should be sent by the 5th of the previous month, to:

Editor  
*The Modulator*, 3607 Klausmier Rd  
Baltimore, MD 21236  
or email to [modulator@baltarc.com](mailto:modulator@baltarc.com).

The club meets at 7:30 pm. the first and third Wednesday of every month in the club facility at 12360 Owings Mills Blvd., 3/10 mile south of Bond Ave. See ADC map page 16-D8. Complete directions web page <http://www.baltarc.com/directions.htm> or call the Club Facility at 410-526-4263.

**VE Testing:** First weekend of each month. Contact Rusty, N3WKE at arrl.net

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## VE Report - November 2006

A Laurel ARC Volunteer Examiner Coordinator (LARC VEC) affiliated testing session was held at the BARC Meeting and Training Facility in Owings Mills, MD, on Saturday, November 4. Ten people took exams for either their initial ham license or to upgrade their license.

**The examinees achieved the following:**

### Became new Technician Class licensee

Alan Atchley KB3OEV  
Joe Pecora KB3OEW

### Became new General Class licensee

David Adam KB3OEU

### Upgraded to General Class licensee

Thomas Hall N3OYO  
Stephen Howard KI4RCY

### Became new Amateur Extra Class licensee

Dharma Prasad Agrahar AB3EH

### Overall, Eleven tests were passed out of seventeen administered:

Element 1 (5 WPM CW): 67%  
Element 2 (Technician Written): 57%  
Element 3 (General Written): 100%  
Element 4 (Extra Written): 50%

### Thanks to the Volunteer Examiners who made the session possible:

Bill Dobson N3WK      Doc Sanders W3FYA      Tom Hendricks KB3CVS  
Robin Schaefer AA3SB      Russ Kaufman N3YI      Rusty Schaefer N3WKE  
Jerry Matthews N3XWT      Doug Wittich N3VEJ

Last testing session for 2006 at the BARC facility is Saturday, December 2, 2006. Registration opens at 1:00 PM and testing starts at 2:00 PM. To pre-register for the exam session, please send email to [n3wke@arrl.net](mailto:n3wke@arrl.net).

## 73, Rusty N3WKE

VE Team Leader

**Our VEC that processes for the FCC: <http://larcmdorg.doore.net/vec/>**

## For Sale

### Subject: AERO Club Towers

The club has one 50 foot and one 60 foot fold over style tower. These towers are a "military style" 7 inch on side triangular rod type. Each tower has a heavy duty steel fold over base. These towers are designed to be guyed. Tower sections are 10 feet long and bolt together. If anyone would like to examine these please ask them to call me. Thanks.

*RonDistler@aol.com or by twisted pair 410-256-9018*

-----  
1: MW-35 35 ft steel telescoping tower with hinged base, roof bracket,  
3 winches, Cushcraft A-3 Tribander antenna, CD-45 Rotator.  
MAKE AN OFFER

2: TS820S Kenwood Transceiver plus VF-820 VFO, SP820 speaker,  
AT200 Tuner and MC-50 mic. \$500 for the rig package.

3: MLA-1200 Dentron amp plus MFJ989C tuner \$400

Contact *Lee, W3FQE 410-321-6856* or email *captry1st@aol.com*

All in service at this time

### For FREE

-----  
2 Parabolic Antennas one 10 ft and one 12 ft diameter. These are commercial cable TV antennas previously used by Flight Systems Cable, a predecessor of Comcast in Baltimore. Will accept the highest bids. A bid that is an offer "to remove for free" will be considered. Contact Dan Hodge (ex-W9AQR), President, Anchorage Tower Condominium Association, at *dan.hodge@cox.net*, 410-534-4850, or 703-599-2659. These need to be removed in a relatively short timeframe. Please call soon.

*Thanks!*  
*Dan Hodge, ex-W9AQR*

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### BARC Radio Room Gets Facelift

While the trio of **Ed - K3CAV**, **Mark - KB3NGI** and myself **N3WD** were operating in the November Sweepstakes the BARC radio room under went some needed fix up and re-arrangement. **Ed, K3CAV** spearheaded the project and went to town.

In brief after many hours of trial and error to make things work here is what was accomplished:

Station one was left alone. This is the station that consists of the Ten-Tec Omni VI, Ameritron AL-811 H amp, and MFJ Versa Tuner III.

Station two was completely re-done. It consists of the Ten-Tec Jupiter, LDG AT 200 Pro Autotuner, Icom IC-271 (2 Meter 100 W all mode) a new computer loaned by N3WD. We needed a computer with 2 serial ports. The computer was built and drivers found. The software for the Jupiter was loaded and the Jupiter is now connected to the computer for computer control. A rig blaster is now connected and the software loaded and is working. As of this writing, Bill N3WD is working on getting RTTY software up and running on this machine.

Station three has the Yaesu FT 847 with an LDG AT 11MP Autotuner and a Rig Blaster. The rig blaster is configured and working with the Yaesu. We are working on getting the Yaesu to be computer controlled but need a 2 serial port computer.

A lot of efforts went into getting everything working. Please enjoy the benefits but PLEASE do not disconnect or change anything. We still have to get the LAN back to the way it was before it was changed. Once we can get the radio room computers to see the lan again there is a logging section on the lan with the N3FJP log book loaded. This contains the clubs log. Unfortunately it can not be accessed at this time so paper log books are going to be provided until we can fix this issue.

**Bill, N3WD**

*For Immediate Release*  
*Contact: Sharon Dobson*  
*Date: November 15, 2006*

## **Baltimore Amateur Radio Club Joins With President Bush's Council on Service and Civic Participation to Deliver President's Volunteer Service Award**

### **Prestigious Award Honors Outstanding Commitment to Volunteer Service**

Reisterstown, MD BARC today announced it has teamed with the White House to become a Certifying Organization for the President's Volunteer Service Award, a national program recognizing Americans who have demonstrated a sustained commitment to volunteer service. Established in 2003, the Award was created by President George W. Bush to give Presidential recognition to individuals, families and groups who meet requirements for volunteer service, measured by the number of service hours performed over 12-months.

Baltimore Amateur Radio Club is one of thousands of organizations that have joined forces to deliver the President's Volunteer Service Award and honor the volunteers who strengthen our Nation. As a Certifying Organization for the Award, BARC is responsible for verifying service hours, nominating potential recipients and delivering the Award.

"We are extremely proud to recognize our most outstanding volunteers with the President's Volunteer Service Award," said **Joe, AJ3X** "BARC volunteers are role models in our community, donating their time, energy and talent to bring us closer together as neighbors and a Nation. The Award is our way of thanking these volunteers and inspiring everyone in our community to make volunteering a central part of their lives."

"Even if you've never volunteered before, the President's Volunteer Service Award is within your reach," **Sharon, K3DUH** said. "There are so many ways to contribute, and every volunteer hour makes a difference in improving the quality of life for others. We encourage everyone to get involved and to bring along your family, friends and neighbors. Together, we can strengthen America – one hour at a time."

The Award is issued by the President's Council on Service and Civic Participation, a group convened by President George W. Bush to help foster and encourage a culture of volunteer service and civic participation among Americans.

Time: 2000 local  
Week: Every, except National Holidays

WASH Primary (Repeater) Frequency: 146.940  
(WASH AREA/RACES Net)  
Day: Tuesday  
Time: 1900 local  
Week: Every

Secondary (Repeater) Frequency: 147.090  
(Four States Net)  
Day: Thursday

Time: 1900 local  
Week: Every

Tertiary (Repeater) Frequency: 147.375  
Primary ERN Frequency: 146.820 (PL156.7)  
Secondary ERN Frequency: 146.925 (PL156.7)

Primary CRN Frequency: 147.105 (PL107.2)  
Secondary CRN Frequency: 146.760

Primary WRN Frequency: 147.090  
Secondary WRN Frequency: 146.730

*"Contest" from page 5*

80 through out the night and knocked out all but 5 sections. At 10 am we decided to break and come back at 3 pm to work the last 7 hours and stay within the rule of working no more than 24 hours. When we split at 10 am we had South Carolina, North Dakota, British Columbia, Northwest Territories and Quebec left.

We gathered back at 2 pm to get ready to nail the last 5 sections. While N3WD was lost in the Ravens game, Mark went to work on the last five. Mark was able to knock out South Carolina. After the Ravens game I joined the gang in search out the last five. Mark got on the spotting nets and I got on 20 meters. We soon were able to knock out British Columbia and then a little later we got North Territories. Mark took over the radio and I went to spotting. We saw a Quebec station on the spotting nets on 40 meters and mark jumped on it. We soon had Quebec bagged and were after North Dakota.

With over 2 hour left we were sure North Dakota would fall. Mark went back to spotting and I went back to 20 meters searching for North Dakota. Mark yelled out that North Dakota was at 14.273 and I was on it like you know what. Unfortunately with a California station at 14.273.5 and a Colorado station at 14.272, I never heard North Dakota. We were still determined to get that last section. Back to spotting and back to searching. We decided to go to 40 meters and Mark took over the radio while I spotted.

With about 45 minutes left in the contest I saw a spotting of North Dakota on 40 meters. Unfortunately we never found that station. We worked some stations watched the spots and even tried 80 meters with no luck. The finals were 543 contacts, 79 of 80 sections and a score of 85,794. I know we all had fun and wish there were more BARC members there to participate.

**Bill, N3WD**



Name: Rob Hoyt  
Nickname: Rob  
Appointment: EC  
Address: 46860 Hilton Dr, Apt 1722  
City, State, Zip: Lexington Park, MD 20653-3736  
Jurisdiction: STMA  
Callsign: N20MC  
Home BBS:  
Cell Phone: 301-643-6561  
Email Address: n20mc@arrl.net  
Pager: Number:

Name: Robert Long  
Nickname: Bob  
Appointment: EC  
Address: 10618 Roberts Lane  
City, State, Zip: Hagerstown, MD 21741  
Jurisdiction: WASH  
Callsign: KD3JK  
Home BBS:  
Home Phone: 301-824-5132  
Work Phone: 301-790-2800 x 495  
Email Address: rjlong61@myactv.net  
Pager: Number: 301-745-2783

#### LOCAL ARES NETS

ALLE Primary (Repeater) Frequency: 146.88, PL 123.0  
Simplex Frequency: 146.52  
Day: Monday  
Time: 1900 local  
Week: Every

ANAR Primary (Repeater) Frequency: 146.805 (PL107.2)  
Secondary (Repeater) Frequency: 442.300 (PL107.2)  
Tertiary (Repeater) Frequency: 449.125 (PL107.2)  
Simplex Frequency: 147.495  
Day: Sunday  
Time: 2000 local  
Week: Every

BALT Primary (Repeater) Frequency: 145.33  
Secondary (Repeater) Frequency: 146.67  
Simplex Frequency: 146.550  
Day: Tuesday  
Time: 1930 local  
Week: First

CALV Primary (Repeater) Frequency: 146.985 (PL156.7)  
Secondary (Repeater) Frequency:  
Simplex Frequency: 146.58  
Day: Monday  
Time: 2000 local  
Week: Every

CARR Primary (Repeater) Frequency: 145.410 (PL114.8)  
Primary Simplex Frequency: 146.475

Secondary Simplex Frequency: 147.480  
Day: Tuesday  
Time: 2030 local  
Week: Every  
CHAR Primary (Repeater) Frequency: 443.700/145.390  
Secondary (Repeater) Frequency: 443.700/145.390/  
146.850  
Simplex Frequency: 146.535  
Day: Thursday  
Time: 2000 local  
Week: Every

FRED Primary (Repeater) Frequency: 147.060 (PL123.0)  
Simplex Frequency: 146.58  
Day: Monday  
Time: 1930 local  
Week: Every

GARR Primary (Repeater) Frequency: 146.805 (PL 123.0)  
Primary (Simplex) Frequency: 146.55  
Secondary (Simplex) Frequency: 147.55  
Day: Sunday  
Time: 2000 local  
Week: Every

HOWA Primary (Repeater) Frequency: 147.135 (PL156.7)  
Secondary (Repeater) Frequency: 147.39  
Simplex Frequency: 146.43  
Day: Tuesday  
Time: 1930 local  
Week: First and Third


KENT Primary (Repeater) Frequency: 147.375  
Simplex Frequency: 146.43  
Day: Tuesday  
Time: 2000 local  
Week: Every

MONT Primary (Repeater) Frequency: 146.955  
Secondary (Repeater) Frequency: 145.45 / 443.90  
Simplex Frequency: 146.46 and 147.51  
Day: Tuesday  
Time: 2000 local  
Week: Every

PRGE Primary (Repeater) Frequency: 146.610  
Secondary (Repeater) Frequency: 146.880  
Tertiary (Repeater) Frequency: 147.150 (PL114.8)  
Day: Tuesday  
Time: 2030 local  
Week: First, Third and Fifth

STMA Primary (Repeater) Frequency: 146.64  
Secondary (Repeater) Frequency: 146.775  
Simplex Frequency: 146.49  
Day: Monday

Chaired by two-time Super Bowl Champion Darrell Green, with former U.S. Senators Bob Dole and John Glenn as honorary co-chairs, the Council is composed of leaders in government, media, entertainment, business, education, nonprofit and volunteer service organizations and community volunteering.

For more information about volunteering with BARC, **Sharon, K3DUH, Particia, N3DUH** or **Travis, KB3MTZ**. For more information on the President's Volunteer Service Award and to find out how to identify additional volunteer opportunities in this area, visit [www.presidentialserviceawards.gov](http://www.presidentialserviceawards.gov) or call **1-866-545-5307**. 

## BARC Enters November Sweepstakes

Over the weekend of November 18 and 19, 2006 BARC participated in the ARRL November sweepstakes. The participants were: **Mark - KB3NGI, Ed - K3CAV** and myself **N3WD**. We knew we were not going to win in the multi category and decided early on we wanted to go for the sweep.

This is a contest within a contest. It is the usual "how many contacts can you make in a period of time" BUT it also has the contest of working all of the ARRL and RAC sections. There are 80 sections in all and some can be a real challenge to work. For some reason Quebec is real tough to find. Maybe it is because we do not have a French accent.

The contest runs from Saturday at 4 pm local time concludes Sunday evening at 10 pm local. You can only work 24 hours total out of that time period and every off time must be 30 minutes in length. Mark went to the facility on Friday to load the logging program on the computers only to find that someone had messed around with the lan (Local Area Network) and we could not get to any of the lan drives. Since only one transmitter is permitted it was decided that we would load the software on a computer locally and hope for the best.

We used the Ten-Tec Omni VI with the MFJ Versa Tuner III and the Ameritron AL-811H amplifier. We ran about 600 watts all weekend. The Ten-Tec has some great filtering in it and really worked well. We used the refurbished Cushcraft A4S beam and the Carolina Windom. Most of the contacts were on 20 meters early on and then we switched to 40 Meters and then 80 meters in the middle of the night.

I start off the contest on 20 meters and being the first to operate, I was able to knock out 40 some sections. Mark and Ed took over and worked 40 and

*continued on page 13*



## Three Element Quad Antenna for 2 Meters

by Joe Tracey, KB3LNM

The quad antenna is easily constructed out of low cost materials using common hand tools. It offers good performance. It is about 59 ohm impedance so can be driven with 50 ohm coax and without the use of an antenna tuner. Gain and SWR plots from EZNEC are attached.

I experimented with different coax types. RG58 and RG58A/U give the best results with a SWR of 1.1 at 146.010 MHz. Use of RG 8 (9913F) at the same frequency has a SWR of 1.5.

This antenna was designed for indoor use. If you intend to use it in an outdoor environment the diamond shape is more desirable so that water and ice buildup is minimized. The antenna is very light and can be mounted on a TV antenna rotor. When mounting, place the SO239 on a vertical side to get vertical polarization.

Basic design information was obtained from the ARRL Antenna Handbook 2004 and was enhanced using the software program EZNEC supplied with the handbook.

### Materials:

- #6 gauge solid copper wire 22 feet - available from Lowes or electrical supply
- SO239 connector
- #14 gauge solid copper wire - 6 inches
- Wood 1"x0.75x24 - antenna boom
- Wood 1"x0.75x23 - reflector support, holes for wire 1/2 from ends
- Wood 1"x0.75x22.25 - director support, hole for wire 5/8 from ends
- Wood 1"x0.75x21.5 - driven element support, holes for wire 5/8 from one end
- Plexiglass 2"x3" - support for SO239 connector
- Miscellaneous wood screws
- 1 wire lug for #14 wire to fit a 4-40 screw
- 4 4-40 screws 0.5 length, nuts and lock washers

Elements (6 gauge wire)	Length (inches)	1 Side Length (inches)
Reflector	88.75	22.0
Driven	84.50	21.0
Director	79.25	19.75

Email Address: lawman349@verizon.net  
 Pager Number:  
 Name: Norman Kaplan  
 Nickname: Norman  
 Appointment: EC  
 Address: 2605 Loma St  
 City, State, Zip: Silver Spring, MD 20902  
 Jurisdiction: D.C.  
 Callsign: N3LDM  
 Home BBS:  
 Home Phone: 301-649-6389  
 Work Phone:  
 Email Address: nkaplan@reactintl.org  
 Pager Number:

Name: Eric L. Gammeter  
 Nickname: Eric  
 Appointment: EC  
 Address: 10494 Balmoral Pl.  
 City, State, Zip: New Market, MD 21774-6947  
 Jurisdiction: FRED  
 Callsign: N8AAY  
 Home BBS:  
 Home Phone: 301-865-0865  
 Work Phone: 301-696-7899  
 Email Address: n8aay@verizon.net  
 Cell/Pager Number: 301-471-7654

Name: William Shomo  
 Nickname: Bill  
 Appointment: EC  
 Address: 116 S. 8th St.  
 City, State, Zip: Oakland, MD 21550  
 Jurisdiction: GARR  
 Callsign: KB3FMJ  
 Home BBS:  
 Home Phone: 301-334-2997  
 Cell Phone #1: 304-813-2013  
 Cell Phone #2: 301-616-5026  
 Email Address: bshomo@iceweb.net  
 Pager: Number:

Name: Patrick Scolla  
 Nickname: Pat  
 Appointment: EC  
 Address: 401 Woodridge Ct.  
 City, State, Zip: Fallston, MD 21047  
 Jurisdiction: HARF  
 Callsign: WB0EGR  
 Home BBS:  
 Home Phone: 410-877-0750  
 Work Phone: 410-612-6520  
 Cell Phone: 410-961-0163  
 Email Address: wb0egr@comcast.net;  
 scollap@battelle.org

Pager: Number:  
 Name: Richard D. Firestone  
 Nickname: Rich  
 Appointment: EC  
 Address: 7401 Hickory Log Cir  
 City, State, Zip: Columbia, MD 21045  
 Jurisdiction: HOWA  
 Callsign: AB3BQ  
 Home BBS:  
 Home Phone: 410-309-1984  
 Work Phone: 301-763-8000 X7580  
 Email Address: ab3bq@arrl.net  
 Pager: Number:

Name: John Hamm  
 Nickname: Jeff  
 Appointment: EC  
 Address: 118 Pine Street  
 City, State, Zip: Chestertown, Maryland 21620  
 Jurisdiction: KENT  
 Callsign: WA6LHQ  
 Home BBS:  
 Home Phone: 410-810-0488  
 Work Phone: 410-778-1342  
 Email Address: n3tf@atlanticbb.net,  
 also ghamm2@washcoll.edu  
 Pager: Number:

Name: Fred Bader  
 Nickname: Fred  
 Appointment: EC  
 Address: P O Box 2993  
 City, State, Zip: Gaithersburg, MD 20886-2993  
 Jurisdiction: MONT  
 Callsign: K3CSX  
 Home BBS:  
 Home Phone: 301-540-1188  
 Cell Phone: 240-401-9111  
 Email Address: k3csx@arrl.net  
 Pager: Number:

Name: Kenneth Greenhouse  
 Nickname: Ken  
 Appointment: EC  
 Address: 4910 Ashford Dr  
 City, State, Zip: Upper Marlboro, MD 20772  
 Jurisdiction: PRGE  
 Callsign: KB3IIE  
 Home BBS:  
 Home Phone: 301-627-8255  
 Work Phone: 301-583-2056  
 Cell Phone: 301-509-3522  
 Email Address: KFG301@aol.com  
 Pager: Number:

# Maryland EC Roster

October 23, 2006

Name: Douglas P. Lindsey, Jr  
 Nickname: Doug  
 Appointment: SEC  
 Address: 9919 Chessington Way  
 City, State, Zip: Bowie, MD 20721  
 Jurisdiction: MDC  
 Callsign: KB3HER  
 Cell Phone: 240.460.3336  
 Home Phone: 301-925-3227  
 Work Phone: 301-925-3229  
 Email Address: dgroup@verizon.net

Name: Hank E. Vandeursen  
 Nickname: Hank  
 Appointment: DEC  
 Address: PO Box 237  
 City, State, Zip: Lisbon, MD 21765-0237  
 Jurisdiction: MDC  
 Callsign: KB3LMM  
 Cell Phone: 443-285-1397  
 Email Address: kb3lmm@arrl.net

Name: William M. Tucker  
 Nickname: Bill  
 Appointment: EC  
 Address: 936 National Hwy  
 City, State, Zip: Cumberland, MD 21502-7326  
 Jurisdiction: ALLE  
 Callsign: K3UEZ  
 Home Phone: 301-729-2544  
 Work Phone:  
 Email Address: k3uez@arrl.net

Name: John F. Winner, Jr.  
 Nickname: Frank  
 Appointment: EC  
 Address: 283 Oak Ct.  
 City, State, Zip: Severna Park, MD 21146-3134  
 Jurisdiction: ANAR  
 Callsign: N3SEO  
 Home Phone: 410-647-3335  
 Email Address: n3seo@arrl.net  
 Pager: Number: 410-280-7539

Name: James Cundiff  
 Nickname: Jim  
 Appointment: EC  
 Address: PO Box 34002  
 City, State, Zip: Essex, MD 21221-8002  
 Jurisdiction: BALT  
 Callsign: KB3GFC  
 Home BBS:  
 Home Phone: 410-686-9199

Work Phone: 410-917-1220  
 Email Address: kb3gfc@arrl.net  
 Pager: Number: 410-597-6600 then ID 3671

Name: Dennis Bowling  
 Nickname: Dennis  
 Appointment: EC  
 Address: 1687 Paris Oaks Rd.  
 City, State, Zip: Owings, MD 20736-9524  
 Jurisdiction: CALV  
 Callsign: N3QHC

Home BBS:  
 Home Phone: 410-286-0180  
 Work Phone:  
 Cell Phone: 410-610-9220  
 Email Address: n3qhc@verizon.net  
 Pager: Number:

Name: Steve C. Beckman  
 Nickname: Steve  
 Appointment: EC  
 Address: 2145 Bethel Rd  
 City, State, Zip: Finksburg, MD 21048  
 Jurisdiction: CARR  
 Callsign: N3SB  
 Home BBS:  
 Home Phone: 410-876-1482  
 Work Phone: 410-583-4321  
 Email Address: n3sb@qis.net  
 Pager: Number:

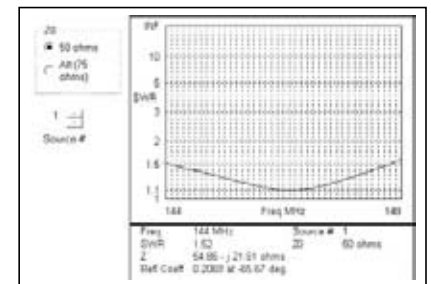
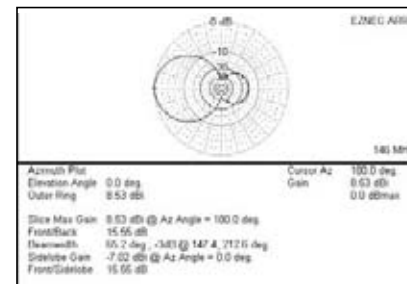
Name: George P Remhof  
 Nickname: George  
 Appointment: EC  
 Address: 140 Harrisville Road  
 City, State, Zip: Colora, MD 21917-1302  
 Jurisdiction: CECL  
 Callsign: KB3LJB  
 Home Phone: 410-658-9564  
 Work Phone: 410-628-6696  
 Cell Phone: 443-466-7005  
 Email Address: KB3LJB@ARRL.NET

Name: Jason Hopkins  
 Nickname: Jason  
 Appointment: EC  
 Address: 38225 Zane Ct  
 City, State, Zip: Mechanicsville MD 20659  
 Jurisdiction: CHAR  
 Callsign: N3NTX  
 Home BBS:  
 Home Phone: 301-290-1773  
 Cell Phone: 240-682-1927

Cut antenna elements to length. (note that they are 1/2" longer than calculated). Thread them through holes in the supports placing the joint on a side without spreader support. Use a hammer to flatten the copper end about 1/2 inch on each end of the reflector and director elements. (not the drive element) Overlap the flatten ends, hold in place with a C clamp and solder. I used a 100 W gun. Use small sheet metal screws at right angles to the supports at the holes to pinch the wire in the holes to prevent the wire from sliding in the supports.

Drill hole and mount SO239 in plexiglass. Drill 2 screw holes to mount plexiglass to the end of driven element support with out the hole.

Solder 2-3" length of 14 gauge wire to center connection of SO239. Solder 2-3" length of 14 gauge wire to a lug and bolt onto mounting screws of SO239. Feed the driven element through the hole in the support and locate the ends at the SO239 connector. Clamp the 14 gauge wire to side of the 6 gauge wire and solder. You may have to slide this in some in tuning. I move it in 1.5" inches to optimize the SWR. Leave the ends. Cutting them off will change the SWR readings.



Frequency (MHz)	Measured SWR
144.010	1.2
145.010	1.15
146.010	1.15
147.990	1.2

Upcoming Public Service & Events

# December 2006

Upcoming Contests

Jan 1 - ♦ Straight Key Night  
 Jan 6-7 - ♦ RTTY Round-up  
 Jan 20-22 - ♦ January VHF Sweepstakes  
 Feb 17-18 - ♦ International DX Contest (CW)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	<b>Phases of the Moon</b> 12/05 Full Moon 12/12 Last Quarter 12/20 New Moon 12/27 First Quarter				<b>1</b>   <b>160M Contest</b> 2200 UTC Friday- 1600 UTC Sunday	<b>2</b> VE Testing- Registration: 1 p.m. Testing begins: 2 p.m.
<b>3</b>	<b>4</b>	<b>5</b> Court Hearing for W3LL	<b>6</b> Club Meeting: 7:30 p.m.	<b>7</b>	<b>8</b>	<b>9</b>   <b>10M Contest</b> 0000 UTC on Saturday- 2359 UTC Sunday
<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b> Club Fundraising Committee Meeting: 7:30 p.m.	<b>14</b>	<b>15</b>	<b>16</b>
<b>17</b>	<b>18</b> Deadline- January 07 Issue of <i>The Modulator</i>	<b>19</b>	<b>20</b> Club Meeting: 7:30 p.m.	<b>21</b>	<b>22</b>	<b>23</b>
<b>24/31</b> Christmas Eve/ New Year's Eve	<b>25</b> Christmas Day	<b>26</b> Deadline- Feature Articles for February 07 Issue of <i>The Modulator</i>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>