



**Tri County Radio Association**  
**W2LI Since 1934**



Tri County Radio operates repeaters on 147.255 (PL 141.3) and 449.975 (PL 141.3) using the W2LI memorial call sign / P.O. Box 412 Scotch Plains, NJ 07076 / Web Site: <http://www.w2li.org>

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**October 15<sup>th</sup>: "NOMINATIONS"**  
 Nominations for the offices of President, Vice President, Secretary and Treasure will be taken. To be eligible you must have attended five meetings this past year and not be in arrears of dues. **Note this will take place prior to our presentation by Tom Ray, W2TRR. See note to right. (8PM AT THE UNION ELKS)**

**TCRA NEWS OCTOBER 2007**

*TCRA News is published ten times a year, with no issues in August and December.*

**PROGRAMS/EVENTS FOR**

**OCTOBER\***

**\*Subject to change.**

**October 1<sup>st</sup>: "FOX HUNT ANTENNA BUILDING PROJECT"** Direction Finding antennas discussed at the September 17<sup>th</sup> meeting will be assembled. See page 2 for more information. **(8PM AT THE UNION ELKS)**

**October 2<sup>nd</sup>: "VE TEST SESSION"** VE testing sessions sponsored by TCRA and the Union County O.E.M will be held on Tuesday October 2<sup>nd</sup> at the Union County E.O.C building, 300 North Avenue East in Westfield. Testing will begin at 7:00PM. All license class tests will be given.

**October 13<sup>th</sup>: "VE TEST SESSION"** 8AM at the Union County College Cranford Campus.

**October 15<sup>th</sup>: "WWV"** Tom Ray, W2TRR Vice President of Engineering WOR Radio and Buckley Broadcasting will do a presentation on WWV The National Bureau of Standards time and frequency radio station. **Note this will take place right after Officer Nominations. See note to left. (8PM AT THE UNION ELKS)**

**October 22<sup>nd</sup>: "ON THE AIR MEETING"** (9PM W2LI 2M 147.255 PL 141.3).

## **NEW YORK CITY MARATHON**

**NOVEMBER 4<sup>TH</sup>**

With Labor Day come and gone and the weather cooling down a bit, it's once again time for the New York Road Runner's club to look to the Amateur Radio community for help with the 2007 New York City Marathon. This years New York City Marathon will be held on November 4, 2007

If you would like to help with this year's marathon E-mail Steve Mendelsohn, W2ML at: [w2ml@arrl.org](mailto:w2ml@arrl.org).

### **Fox Hunt Antennas To be Built At the October 1<sup>st</sup> Meeting**

There were several antennas discussed at the September 17<sup>th</sup> meeting. Please visit the web addresses listed below and order the kits or purchase the needed parts for the antenna(s) you would like to assemble at the April 18<sup>th</sup> meeting. We will then test them in the spring during a Fox Hunt.

The first antenna discussed was the Handy Finder. The Handy Finder is a phase detector. It consists of two antennas and a small switching circuit. The two antennas are alternately switched on and off at a rate of 1 KHz. When the observed signal is received on one antenna before the other, the two antennas are out of phase with the source signal. The result is the appearance of a 1 KHz tone on the incoming audio. This tone is incidental phase modulation produced by the switching action. When the incoming signal is received by both antennas at the same time, the tone disappears, which indicates that each antenna is an equal distance from the source. Therefore, you are pointing right at the signal source! The unit theoretically works on any frequency, but it's most effective frequency range is from 50 MHz to 500 MHz. Kit comes with; board, components, antennas, coax and BNC

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connector. Needed: 9 volt battery and PVC pipe handle. Cost \$21.00 To purchase the Kit click on the following URL:

<http://www.marshwildman.com/handy.htm>

The next antenna discussed was a three element portable hand held Yagi for 2 Meters by Arrow Antenna. Cost \$49.00 plus shipping. To purchase click on the following URL:

<http://www.arrowantennas.com/146-3ii.html>

Note there is also a 70cm version for \$54.00.

The last two are from a web site by Joe Leggio, WB2HOL. A 2 element and a 3 element Yagi built using 1 inch wide tape measure blade.

His site gives detailed instructions, but you need to purchase the needed parts. I purchased the tape measure blade at Sears, the PVC pipe and fittings at Home Depot and the RG-58 coax cable with BNC connector from Radio Shack. I estimate the cost for the 2 element Yagi to be less than \$13.00 and the 3 element Yagi to be less than \$17.00 Note some of the items such as the PVC tubing (10 feet long), replacement tape measure blade (25 feet long), and the 12 foot long RG-58 coax cable with BNC connectors P/N 278-965 can be used to build more than one antenna. To get the article with instructions for the 2 element Yagi click on the following URL:

[http://home.att.net/~jleggio/projects/rdf/snif\\_b m.htm](http://home.att.net/~jleggio/projects/rdf/snif_b m.htm)

To get the article with instructions for the 3 element Yagi click on the following URL:

[http://home.att.net/~jleggio/projects/rdf/tape\\_b m.htm](http://home.att.net/~jleggio/projects/rdf/tape_b m.htm)

Or you can get to both from the following

URL: <http://www.dxzone.com/cgi-bin/dir/jump2.cgi?ID=5374>

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### **FOR SALE**

Like New. Self focusing Polaroid Camera with carrying case: \$20.00. Contact Dick Franklin, W2EUF at (908) 276-1076.



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# TRI-COUNTY RADIO ASSOCIATION EVENTS

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	<b>1</b> 8:00 PM TCRA MEETING AT THE UNION ELKS "FOX HUNT BUILD/DEMO"	<b>2</b> 7:00 PM VE TEST AT THE UNION COUNTY EOC 8:30 PM SATERN NET 449.975 MHz	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>7</b>	<b>8</b>	<b>9</b> 8:30 PM SATERN NET 449.975 MHz	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b> 8:00 AM VE TEST UNION COUNTY COLLEGE CRANFORD
<b>14</b>	<b>15</b> 8:00 PM TCRA MEETING AT THE UNION ELKS "NOMINATIONS" "WWV"	<b>16</b> 8:30 PM SATERN NET 449.975 MHz	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
<b>21</b>	<b>22</b> 9:00 PM TCRA ON THE AIR MEETING - NJ5R 147.255 MHz	<b>23</b> 8:30 PM SATERN NET 449.975 MHz	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>
<b>28</b>	<b>29</b>	<b>30</b> 8:30 PM SATERN NET 449.975 MHz	<b>31</b>			