



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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KID'S NET

The Kid's Net sponsored by the Northern New Jersey Section ARRL Hudson Division will be held weekly on Thursdays at 7PM on the W2LI 2M repeater. Please contact Barry, K2JV at k2jv@arrl.net with any questions or to be added to the Kids Net mailing list.

TCRA NEWS FEBRUARY 2008

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

PROGRAMS/EVENTS FOR
FEBRUARY*

***Subject to change.**

February 4th: Plans were not finalized at press time. It may be a social meeting or a topic you would not want to miss. **(8PM AT THE UNION ELKS)**

February 9th: **"VE TEST SESSION"** 8AM at the Union County College Cranford Campus.

February 18th: Plans were not finalized at press time. It may be a social meeting or a topic you would not want to miss. **(8PM AT THE UNION ELKS)**

February 23rd: **"VE TEST SESSION"** See note on page 2.

February 25th: **"ON THE AIR MEETING"** (9:30PM W2LI 2M 147.255 PL 141.3).

2008 DUES

Just a reminder: TCRA 2008 dues are due for 2008 membership. Dues are \$20.00. If you can't make it out to a meeting, you may send it to the club: **PO Box 412 Scotch Plains, NJ 07076**. Please note that although the dues are the same as last year the clubs expenses continue to rise. If you are able please add a donation to your dues payment. In advance thank you for your donation.

WORLD'S SMALLEST RADIO

A radio recently developed at the University of California, Berkeley is said to be the smallest radio ever built. The nanoradio, which presently operates as a receiver but could work as a transmitter as well, is a single carbon nanotube that operates as a combined antenna, tuner, amplifier, and AM/FM demodulator. (For those unfamiliar with the world of nano technology, a nanotube is a rolled sheet of interlocked carbon atoms that form a tube that is extremely strong and also exhibits some peculiar electronic properties. This particular tube is about 10 nm in diameter and less than 1 micron long, making it about 1/10,000 as thick as a human hair.)

The operation is fairly straightforward. When radio waves strike the nanotube, it begins to vibrate. You then apply an electric field, which forces electrons to be emitted from its tip. This current is used to detect the vibrations and thus turn the radio waves back into sound.

In one of the early experiments, team leader Alex Zettl, UC Berkeley professor of physics, and his team successfully transmitted such works as "Layla" (Derek & the Dominos), "Good Vibrations" (Beach Boys), and "Largo" (from the Handel opera "Xerxes") across a room.

According to professor Zettl, the nanoradio may prove useful in a variety of applications "from cell phones to microscopic devices that sense the environment and relay information via radio signals.....The nanotube radio may lead to radical new applications, such as radio-controlled devices small enough to exist in a human's bloodstream."

If you want to learn more and listen to the actual transmissions, bring up the Berkeley web site (www.berkeley.edu). Once on their web page go to "Search the Berkeley Web"

and enter the labs address (socrates.berkeley.edu/~argon/nanoradio/radio.html).

This is fascinating stuff and combined with SDR we can put implants in everyone's brains and send thought waves to each other instead of speaking. Actually the possibilities are almost endless.

If anyone in the Club happens to have an electron microscope, this would make a dandy club project?

James M. Brown, WB2EDO

WOR TRANSMITTER FIELD TRIP

TCRA will be making a field trip for a tour of the WOR transmitter in Secaucus on Saturday February 2nd. Car pools will be formed at the Union Elks between 9 and 9:30AM. For any additional information please contact Pete, W2NJU at w2nju@msn.com

TCRA VE TEST SESSIONS

Tri-County Radio Association and Roselle Borough OEM will be sponsoring VE sessions to be held on the fourth Saturday of each month. These sessions will be held at the Roselle Fire Department, 725 Chestnut St., Roselle, NJ 07203 in the third floor conference room (handicap accessible). The sessions will start at 0900 thru 1100. An alternate site is available if this location is not available in an emergency

PRE-REGISTRATION PREFERRED, walk-ins accepted. PERSONAL CHECKS PREFERRED, cash accepted.

Contact person,
Gerry Miller, AA2ZJ at aa2zj@juno.com

The sessions are scheduled for the following dates: Feb 23, Mar 22, Apr 26, May 24, Jun 28, Jul 26, Aug 23, Sep 27, Oct 25, Nov 22, and Dec 27



February 2008

TRI-COUNTY RADIO ASSOCIATION EVENTS



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4 8:00 PM TCRA MEETING AT THE UNION ELKS "TBA"	5 8:30 PM SATERN NET 449.975 MHz	6	7 7:00 PM KID'S NET	8	9 8:00 AM VE TEST UNION COUNTY COLLEGE CRANFORD
10	11	12 8:30 PM SATERN NET 449.975 MHz	13	14 7:00 PM KID'S NET	15	16
17	18 8:00 PM TCRA MEETING AT THE UNION ELKS "TBA"	19 8:30 PM SATERN NET 449.975 MHz	20	21 7:00 PM KID'S NET	22	23 9:00 AM VE TEST ROSELLE FIRE DEPARTMENT
24	25 9:00 PM TCRA ON THE AIR MEETING - NJSR 147.255 MHz	26 8:30 PM SATERN NET 449.975 MHz	27	28 7:00 PM KID'S NET	29	