



TARC Bulletin



W5LM Repeaters:

146.820- MHz (PL 123.0) — 444.700 MHz (PL 123.0)

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Ham Expo Is Here!

- Ham Expo is Saturday, October 2, 7:00 a.m.—3:00 p.m.
- Workers needed Friday, Oct. 1 and Saturday, Oct. 2
 - Bell County Expo Center, Belton, Texas
 - We need YOU (see page 3)
 - Help make this the best yet!

Steganonography—Identity Theft Is Sept. Program

Richard Prewitt, KD5OGF, a TARC board member, will present our program at the Sept. 2 club meeting. He will explain the esoteric science of “steganology,” which involves hiding data within .jpg computer images.

An image containing hidden digital data will not appear any different than a “non-crypto” image. However, an innocent looking picture of your puppy could be hiding details on a terrorist attack. Aspects of this technology also affect daily concerns such as identity theft.

Richard has studied this complex technology and will share his expertise with us on Sept. 2.

At Our Next Meeting

Our club meeting on Sept. 2 will look at a new data encryption technique called steganology. Richard KD5OGF will present, showing why we should care about this. We'll have a door prize and lots of fun. Meeting time is 7:00 p.m. at the Western Hills Church of Christ in Temple. Come enjoy the refreshments and fellowship.

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A VHF/UHF Portable Yagi Antenna for Satellite Mode-J (FM)

by
Charlie Schlieper,
N5TD

Working LEO (low earth orbit) satellites like the new AMSAT AO-51 with a handheld can be fun and challenging. It's possible to do it with a lesser antenna than I'm describing, but I recommend using a dual-band Yagi for best results. The most popular version of this is the



ARROW 146/437-10 Model, which has 3-elements on 2m and 7-elements on UHF. A Diplexer (Duplexer, if you wish) is required and is usually mounted on the rear of the boom.

My antenna has 5-elements on UHF and 3-elements on 2-meters. It was constructed

using two surplus Yagi antennas. Most combined antennas of this type have each set of elements arranged 90-degrees apart to minimize mutual proximity effects. I discovered that using a physical offset (each Yagi is mounted on opposing sides), coupled with careful UHF element placement, allowed an "in-plane" layout which produced good coexistence and performance. Each Yagi's driven element uses a Gamma match. The SWR measured close to 1:1 at 145 MHz and 435 MHz, and a quick field-test for patterns proved excellent.



Temple
Amateur Radio Club

Nominations Committee Report Due in October

In accordance with club bylaws, President Oscar Houser, KD5DGJ, appointed a nominating committee at our August meeting to search for candidates for TARC officers for 2005. Their report will be published in the

October issue of the *TARC Bulletin* in the form of a ballot. Elections will be conducted at the November club meeting. The members of the nominating committee are Steve Bosshard, NU5D; Jan Gregg, W5GNK; and Vern Starnes, W5WDW.

KEY CLICKS FROM THE ARMADILLO

...The Ice Cream Social in August was great, as usual. No one went away wanting more. We also had an interesting presentation on the Texas VHF/FM Society.

...It's time to get your calendar and to block out some time for helping with *Ham Expo*. Your presence and help will be needed Oct. 1 and 2. Make plans now to be there then! See p. 3 to see how you can help.

...Be sure to attend the club meeting on Sept. 2 to take advantage of an intriguing program.

...Remember the Net — Mondays at 7:00 p.m. on 146.820- MHz (PL 123.0). Some of you have not been on the net in quite a while—and we miss your smiling face. Check-ins have been slow lately, so get onboard and check in with us. Join the fun!

...See you at the club meeting on August 5.

Ham Expo Staff Questionnaire

First Name Last Name Callsign
Phone E-mail TARC Member? Yes No

Ham Expo

- * Help needed Friday, October 1, and Saturday, October 2. How are you helping with this major TARC event?
- * Filling out this form does **NOT obligate** you to anything.
- * We just need an idea of who could be available.

Check all that apply:

I can help with *Ham Expo* sometime --

- during Friday afternoon vendor setup (noon – 5 p.m., approx.)
- during Friday evening vendor setup (5 – 10 p.m., approx.)
- Saturday morning (5 – 7 a.m., approx.)
- Saturday morning (7 a.m. – noon, approx.)
- Saturday afternoon (noon – 2 p.m., approx.)
- I am a VE and will help with the test session at 1:00 p.m. ARRL W5YI

Assign me to help in these areas (check all in which you are willing to help. You will be assigned to only one or two as needed, but indicate all that you are willing to do):

- I can distribute sack lunches to vendors on Saturday.
- I can arrange for snacks and soft drinks for vendors and TARC personnel on Friday evening.
- I can arrange for soft drinks, coffee, and donuts for TARC personnel on Saturday morning.
- I can order sack lunches and soft drinks for vendors and TARC personnel on Saturday.
- I will help sell raffle tickets on Saturday morning.
- I will collect admission on Saturday morning.
- I will oversee the free handouts at *Expo* (you can recruit helpers to relieve you).
- I will help staff a TARC table where members may sell an item or two.
- I will visit Chambers of Commerce in Temple Belton Killeen to solicit handouts.
- I will help with on-the-air talk-in to help attendees 146.820
- I will help with door prize drawings.
- I will solicit prize donations from vendors.
- I will draw winning tickets from drum.
- I will announce winners on PA system.
- I will oversee solicitation of names to add to our mailing list (see that forms are available, collected after being filled out, returned to chairman).
- I will be a "gopher" to run errands or other tasks before and during *Expo* (if I'm available).
- I will work where needed.

Please complete this questionnaire and return it to Mike LeFan, WA5EQQ, 1802 South 13th Street, Temple, TX 76504; bring it to the September club meeting; or complete the form online at <www.tarc.org>.

Whether you can work for just an hour, or for the entire *Expo* weekend, we NEED you. The staffing for our last couple of events has been very tight, so we definitely — and desperately — ask you to make time for this activity. If you have a specific time slot when you can help, then please indicate what it is. We will work with you. Let's make this the best and smoothest *Ham Expo* yet! Thank you.

TARC Bulletin

Temple Amateur Radio Club, Inc.
P.O. Box 616
Temple, TX 76503

Temple Amateur Radio Club meets the first Thursday of each month from 7:00-9:00 p.m., at the Church of Christ in Western Hills, 210 N. General Bruce Dr., in Temple—across I-35 from La Quinta Motel. Refreshments are served, and guests are invited and welcome!

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The Usual Gang of Suspects showed up for the breakfast on August 21st.

We have reserved the North section of Golden Corral for the third Saturday of each month, at 9 a.m.

Our next TARC Breakfast will be Sept. 18th at 9:00 a.m.

It is *Dutch Treat*. Bring your wallet, an appetite, and come enjoy!