



THE COMMUNICATOR

Newsletter of the TAMAMI AMATEUR RADIO CLUB

Incorporated 30 November 1984 – Venice, Florida
Mailing Address: 1419 E. Manasota Beach Rd., Englewood, FL 34223-6341
W4AC Repeater – 444.100 MHz & 146.805 MHz(-) w/100 Hz PL
Web Site – <http://tamiamiarc.org>



-- JUNE 2013 --

-- PRESIDENT'S MESSAGE --

Hard to believe that June is upon us. This also begins our Hurricane season. Our snowbirds are safe up north, but are we prepared? I just put together my "go bag" and storm kit for the house, including the generator checklist. I am sure you all have done the same. Yes?

The May TARC meeting centered around a presentation by Norm Scholer-K4GFD of Greensboro, Florida. Norm talked of a new digital 440 MHz network (and we have already heard a digital signal overriding our 444.1 analog repeater). The software control package which is still in development should correct this situation. Our membership is very diversified and, as a result, there were a varied collection of comments and questions following Norm's presentation. While digital radio is not everyone's cup of tea it is an important part of Ham Radio. As is often commented: STAY TUNED FOR A FOLLOW UP REPORT.

For those of us who have never visited an Internet Ham site called "HAM RADIO NOW", I would suggest a visit. Take a look at <http://arvideonews.com/hrn/>. There are some 77 episodes, starting back in February 2012, currently available. A very current coverage of how Ham Radio contributed support to the recent Marathon in Boston both during and following the event proved very interesting.

73 to All, Fred-KJ4TNI

-- JUNE MEETING --

Our meeting will start at **7:00 PM** on Wednesday, **12 June 2013** at the Coast Guard Auxiliary Training Center, 1200 South Harbor Drive. Following the business meeting, Jack Sproat-W4JS will offer a program about HF propagation, what the numbers mean, Sporadic E, etc.

If you don't think about the future, you can't have one.

Learning is a treasure which accompanies us everywhere.

(Yep, more Chinese Fortune Cookies logic.)

-- DAYTON HAMVENTION --

The Dayton Amateur Radio Association held its first hamfest in March 1952 with a budget of \$100. See <http://www.w8bi.org/index.php/about-hamvention> for more info. TARC snowbird member Frank Schwab-W8OK (SK) was responsible for organizing that initial event, which has grown to become the largest hamfest in this country over the ensuing 61 years. The following Dayton photos are from the ARRL web site.



Don Greenbaum-N1DG, buddy of TARC's Bob Marchese-K1NOK, with delegates from the Qatar Amateur Radio Society.



Some familiar manufacturers and vendors, however, as will be noted later in this article, some of the regulars didn't participate this year.

See **Hamvention**, pg. 4

TAMIAMI AMATEUR RADIO CLUB
Minutes of the Meeting
08 May 2013

President Fred Lathwood-KJ4TNI called the meeting to order at 7:01 PM and, following a flag salute, introductions were made all around. Norm Scholer-K4GFD from Greensboro, FL, Gary Norman-KJ4REF from Venice, Marvin Dailley-KK4BOV from Venice and Alice Yoder, XYL of San-K3SY, were welcomed as visitors.

MINUTES – Fred requested a motion to accept the minutes of the 10 April meeting as published in the May issue of *The Communicator*. Bob Avrutik-N1RA so moved, seconded by Bob Miller-KI4NLP, and passed.

CORRESPONDENCE – A \$15 check was sent to Special Olympics Sarasota County for the \$7 received as donations with QSL cards, and a Thank You letter was received. The Herald Tribune obituary for Don Fontaine-N4ET was sent by e-mail to the ARRL for publication in the Silent Keys listing.

TREASURER'S REPORT – Treasurer Don Jansen-KI4VGE was out of town such that the secretary read the Treasurer's Report for April. The starting balance was \$3924.94. Receipts were \$55.00 from membership dues and \$20.00 from the April meeting 50/50, totaling \$75.00. Expenses were \$11.10 to Birch Communications for Internet service. The ending balance is \$3988.84. Bob Curts-KA9ZAZ moved for acceptance of the report, seconded by Hans Napfel-WB2ZZB, and passed.

COMMITTEE REPORTS

SUNSHINE – The passing of Honorary Life Member Don Fontain-N4ET, at the age of 96 years, on 29 April was reported.

VE TESTING – A special VE session was held at Venice High School on 24 April. Of the four candidates, two passed Element 2 and one upgraded to General. One inquiry has been received for our 11 May VE session.

REPEATER/TECHNICAL – Both repeaters are operational. Fred turned the floor over to Norm Scholer-K4GFD who informed us as to why our 440 repeater was giving out "motorboat" sounds during our previous Tuesday night net. Unknown to us, the digital mode of that repeater had been connected via the Internet into some form of international digital 440 network. When anyone, anywhere in that network transmits, it will bring up this digital mode, blanking out our analog use of our repeater. Mr. Scholer stated that somebody, somewhere would develop a code whereby we could limit the input to only the

local area. Hopefully that capability will be soon coming.

PUBLICITY/MEMBERSHIP – San Yoder-K3SY advised that we have 57 paid members and four Life Members, for a total of 61 members.

NET OPERATIONS – No comments were offered.

LIAISON TO QCWA – There were 27 members, spouses and friends present at the Suncoast Chapter 53 lunch/meeting on 01 May at Denny's on Bee Ridge Road, Sarasota. The program was a PP travelogue of "Romantic Germany" by Hans Napfel-WB2ZZB. Chapter 53 members will be gathering for lunch at the Panda Pavilion in Venice, June through September, and all are welcome.

OLD BUSINESS – Fred-KJ4TNI paid recognition to Andy Durette-KB1HIP for his leadership for TARC participation in the Sharks Tooth 10-K Run and setup and operation of special event station K4S from the Sharks Tooth Festival site.

NEW BUSINESS – Nothing.

COMMENTS FROM THE FLOOR – Nothing.

ADJOURNMENT – A motion to adjourn at 7:35 PM was made by Bob Avrutik-N1RA, seconded by Hans-WB2ZZB, and passed. There were 18 members and four visitors present.

PROGRAM – Hans Napfel-WB2ZZB offered a PP program showing both current and historical photos of the numerous cities he and his wife, Lisa, visited during a bus tour several years ago.

Jack Sproat-W4JS
Secretary

-- THE EVER PATIENT JEEVES --



Gil – June 1955 QST

We who knew of him sure miss Gil's humor.

CURRENT/UPCOMING DX ACTIVITY & PROPAGATION HIGHLIGHTS

CURRENT and/or SCHEDULED DX ACTIVITY										
COUNTRY – CALL SIGN	ACTIVITY PERIOD	BEARING	HF BANDS and BEST OPENING TIMES (UTC)							
			80	40	30	20	17	15	12	10
Marion Is. – ZS8C, ZS8Z; SSB and digital	Now Active	130	--	23-07	23-08	07-11	10-14	11-14	08-14	09-13
Turks & Caicos – VP5/W5CW; CW & SSB	Now to 11 June	116	20-14	00-24	00-24	15-04	16-05	00-03	NO	NO
Maldives – 8Q7FC; **, holiday style, 5 watts	Now to 08 June	41	NO	00-01	23-02	21-03	18-05	16-05	01-03	NO
Aland Is. – OH0/PA0VHA w/Dutch friends	Now to 07 June	31	01-03	23-06	22-08	18-12	12-00	07-02	NO	NO
Greenland – OX3LX; HF+ 6 meters	Now to 05 June	13	02-07	00-10	22-12	22-12	13-03	08-06	NO	NO
Malta – 9H25Y; multi-modes by Dutch team	Now to 04 June	55	00-04	22-06	21-07	10-05	14-03	09-04	NO	NO
Fiji – 3D2WN; holiday style by AA2WN	01 to 07 June	258	05-11	04-13	03-13	01-13	19-07	18-06	22-05	19-06
St Barthelemy – FJ/K5WE, FJ/N5WR; **	03 to 10 June	113	23-11	00-24	00-24	00-24	13-05	15-04	23-03	15-03
Cape Verde Is – D44TWO; holiday style	03 to 20 June	89	--	21-10	20-11	00-24	13-05	00-24	16-04	NO
Bonaire – PJ4V; ++, holiday style	04 to 16 June	136	23-11	00-24	00-24	00-24	12-06	14-05	16-04	16-05
French Guiana – FY/F5UII	05 to 14 June	123	23-10	21-12	19-14	00-24	14-05	14-05	14-09	16-04
Bahamas – C6ATT and friends; all modes	08 to 15 June	113	00-24	00-24	16-04	NO	NO	NO	NO	NO
St. Martin – FS/K9EL	11 to 28 June	113	23-11	00-24	00-24	00-24	14-04	13-05	14-05	16-04
British Virgin Is – VP2V/W9DR; 6 meters	14 to 28 June	114	Look	for	Es	skip	to	work	this	one.
Svalbard – JW9JKA	16 June to Dec.	13	NO	01-06	00-08	21-14	10-04	10-04	NO	NO
Belize – V31IV; by W6JKV	20 June - 01 July	211	21-14	00-24	00-24	00-24	16-06	23-03	NO	NO
Guantanamo Bay – KG4/home calls	22 to 29 June	135	19-16	00-24	12-06	16-04	22-04	NO	NO	NO
Curacao – PJ2/ON6DX; HF + 6 meters	28 June – 07 July	137	--	--	--	--	--	16-04	14-06	16-04
Luxembourg – LX/OO6P; ON ops, all modes	30 June – 05 July	44	00-05	23-07	22-08	00-24	10-01	00-24	16-23	NO

Updated 30 May based on the 27 May *The Weekly DX*, the 29 May *QRZ DX*, and the NG3K Contest/DX Page, <http://www.ng3k.com>
Notes: Time in bold = the Bands with 75-100% opening; ??? = Call Sign not yet known; ++ = Mostly Phone; ** = Mostly CW; NO = No Opening forecast. Long Path bearings and opening times are underlined. All forecasts calculated using *W6ELProp V.2.60* propagation software, available to download at <http://www.qsl.net/w6elprop/>. Solar Flux and K-index varied by date in accordance with USAF 45-Day A/P Forecast.

-- MAY SOLAR ACTIVITY --

The Solar Flux ranged from 104 to 159, with a mean value of 131.4 (vs. 121.4 for May 2012 and 96.0 for May 2011), and the A-index was ≥ 7 on 20 days. The sunspot number through 30 May ranged from 71 to 212, with a mean of 127.8. Sunspot Regions 1735 to 1761 were active, with four X-class, 13 M-class and 204 C-class flares. It was a “rough month” with A-index hitting 67 on 01 May, 48 on 18 May during seven active days, and 67 on 24 May during seven active days.

-- JUNE FORECAST --

Solar activity is expected to be low with a chance for moderate activity through the month, with high levels of activity from 07 June through 22 June with the return of Old region 1748.

No proton events are expected at geosynchronous orbit, although there is a chance from 05 through 20 June with the return of Old Region 1745.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to be at moderate to high levels 05 to 07 June and 20 to 22 June in response to recurrent coronal hole high speed streams.

In the absence of any earth-directed coronal mass ejections, geomagnetic field activity is expected to be quiet to unsettled with active periods possible 01 June, 21 June and 24 June associated with recurrent CHSS.

The Solar Flux should range from 100 to 140 and average 117.0 during June

(From *NOAA Weekly Highlights and Forecasts, 27 May 2013, NOAA 27-day Space Weather Outlook Table, 27 May 2013, and 45 Day AP Forecast, USAF, 27 May 2013*)

-- DX NOTES OF INTEREST --

With few long haul Dxpeditions scheduled for June, the scheduled Caribbean operations are shown above. While there’s excellent potential to work a number of them note that some, such as the Bahamas, are too close to work on the higher frequencies.

There will be a number of VHF contests during June, as the Sporadic E (Es) season is with us. Newer rigs all have 6-meter capability and a simple loop or vertical could give you some fun on the “magic band.” There have been some good openings recently into the Caribbean. 50.125 MHz is the national calling frequency and 50.110 is the DX calling frequency. CW, SSB and digital modes are all active on six meters.

The W4, K4, N4 QSL Bureau has a new address: W4, K4, N4 QSL Bureau

631-200B Brawley School Rd.
 PMB# 305
 Mooresville, NC 28117

The Smoothed Sunspot Number was 66.9 in February 2012, and that just might have been the peak of Solar Cycle 24. Stay tuned!!

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MAJOR CONTESTS DURING MAY

Contest/Special Event	Begin-End Times/Dates	Bands/Modes	QSO With	Exchange
Digifest	0400Z 01 June 2000Z 02 June	80 – 10 Meters All Digital Modes	Multiple operating times Anyone, Anywhere	RST, Grid Square
Maritimes QSO Party	1200Z 01 June 2359Z 01 June	160 – 2 Meters SSB and CW	Stations in Maritime Provinces: NB, NS, PEI	S/P/C
SEANET Contest	1200Z 01 June 1200Z 02 June	80 – 10 Meters SSB and CW	Stations in Southeast Asia	RS(T), Serial
Six Meters World Wide Club Contest	1500Z 01 June 2359Z 02 June	6 Meters SSB, CW, Digital	Anyone, Anywhere See www.6mt.com	Call sign, Grid Square
Australian Shires Contest	0600Z 08 June 0600Z 09 June	80 – 10 Meters SSB and CW	Australian Stations	RS(T), CQ Zone
Portugal Day Contest	1200Z 08 June 1200Z 09 June	80 – 10 Meters SSB and CW	Anyone, Anywhere	RS(T), Serial
GACW WWSA CW DX Contest	1500Z 08 June 1500Z 09 June	80 – 10 Meters CW	Anyone, Anywhere	RST, CQ Zone
ARRL June VHF Contest	1800Z 08 June 0300Z 10 June	6 Meters and Up SSB, CW, Digital	Anyone, Anywhere	Grid Square
All- Asian DX Contest	0000Z 15 June 2400Z 16 June	160 – 10 Meters CW	Asian Stations	RST, Operator's Age
SMIRK QSO Party	0000Z 15 June 2400Z 16 June	6 Meters SSB and CW	Anyone, Anywhere (SMIRK members)	Grid Square
His Majesty King of Spain Contest	1200Z 22 June 1200Z 23 June	160 – 10 Meters SSB	Anyone, Anywhere	RST, Serial
Marconi Memorial HF Contest	1400Z 22 June 1400Z 23 June	160 – 10 Meters CW	Anyone, Anywhere	RST, Serial
ARRL Field Day	1800Z 22 June 2100Z 23 June	160 – 6 Meters ++ SSB, CW, Digital	Other FD Stations; see www.arrl.org/contests	Category, ARRL Section

Legend: Serial = Sequential number of contact starting with 001; S/P/C = State, Province, DXCC Entity

From ARRL "Contest Corral" and WA7BNM Contest Calendar at <http://www.hornucopia.com/contestcal/>

NOTE: State QSO Parties and "membership clubs" contests are not shown. See above references for information.

Hamvention, from pg. 1



The DX Engineering hex beam dominates their presence.

(The following comments are taken from http://wb8nut.com/blog/files/May_21_2013.html as prepared by Jim Beischel-WB8NUT and forwarded by Bob Marchese-K1NOK.)

Attendance seemed on par with last year. There were a number of vendors missing this year, including AES, Ham Station and Scanner

Master. Some of the indoor display areas had isles completely empty.

Again, as last year, there were a large number of empty flea market spaces. Also, as usual, most of the stuff being sold in the flea market is junk that no one would even put on eBay. It seems to be a recurring theme that the good stuff that will bring increasing bids goes to eBay, while the junk that no one really wants is brought to the flea market. Prices for the junk in many cases were too high and unrealistic. Why buy a beat-up and scratched radio with questionable history for \$100 less than buying one new?

Offerings by the big-five were variable, as per: ICOM's exhibit was packed as usual. D-Star is still hot and growing rapidly. There are now over 2,000 D-Star repeaters and 50,000+ D-Star registered users. *(Ed note: It should be noted that D-Star stands for Digital Smart Technologies for Amateur Radio and is a digital voice and data protocol specification developed as the result of*

See Hamvention, pg. 5

Hamvention, from pg. 4

research by the Japan Amateur Radio League to investigate digital technologies for amateur radio. The first manufacturer to offer D-Star compatible radios was ICOM. As of February 1, 2013, no other amateur radio equipment manufacturer has chosen to include D-Star technology in their radios. The technology requires the use of a proprietary AMBE Codec that is owned by Digital Voice Systems, Inc.) The reports that you see on D-Star info are only for U.S. Gateway 2 registrations and do not include the other gateway infrastructures. D-Star is even bigger than many thought. ICOM had a separate D-Star display that was packed with people all the time. The ID-51A dual-band D-Star radio was flying off the shelves with most vendors sold out by Friday night. HRO got another 50 for Saturday and they blew out. This radio has all the world-wide D-Star repeaters already loaded. It can program the nearest repeater using its built-in GPS. As usual there was much interest in all the ICOM HF offerings.

Kenwood's display seemed lightly attended. The only "new" thing they had was a \$7,000 HF rig so since that is way out of the budget of most hams, it was not creating much excitement. Fact is, I've never witnessed such a dismal crowd at the Kenwood display. Probably because there was nothing new.

Yaesu was not giving out their traditional hats but was giving out mouse pads instead. Their display was also lightly attended, though not as bad as Kenwood. Hardly any interest in their new digital VHF/UHF handheld which is finally for sale. Frankly, Yaesu's entrance into the digital voice world has been a disaster.

The DMR Mototrbo folks are trying to make everyone think DMR is overtaking D-Star, but their booth was nowhere to be found. DMR has so many issues that D-Star is continuing to rule and outgrow them. The DMR radios are a nightmare to program. Each radio has to be registered and not the simple method of registering the call sign only. TDMA (*Time Division Multiple Access*) starts becoming a problem when the distance is more than 45 miles. It does not do integrated data and voice.

TenTec was fairly busy all the time. They had a new computer controlled CW QRP radio. Their new QRP radio, the Argonaut VI, was not creating a lot of excitement since it is a crippled radio missing 6, 12 and 60 meters. In this day and age given the technology, how can you create an HF radio with missing bands?

Elecraft was packed as usual and their influence in the U.S. ham market is obviously growing. The fact that they continue to create new products and rapidly bring them to market is why they create excitement. Elecraft was not offering any discounts because the demand for their products is so high.



Lots of lookers and lots of boxed goods available for sale.

As for other vendors:

Flexradio had a lot of visitors to their booths as usual. Still showing the 6000 series of radios and software, but still no deliveries. Some hams have had Flex6000 orders in for a year and still no radio. The Flex1500 and Flex3000 are still the most economical way to get into an SDR transceiver.

Ham Radio Deluxe is doing well and has a growing following since the new owners have taken over. Great full-featured product for rig control, digital modes, logbook and satellite tracking.

LNR Precision was showing a dual-band CW QRP radio but the real exciting thing was a quad-band SSB and CW QRP radio that they will be offering around the Q3/Q4 timeframe. Five watts and very small. This was really neat and it's supposed to be less than \$500 when offered for sale. Watch for an announcement at <http://www.lnrprecision.com>.

Silent System is a tiny Japanese company offering a very small 100 milliwatt QRP PSK transceiver with built-in display. Connect a keyboard, antenna and power supply, and you have a fully-functional PSK station. The price was under \$300 and you can get more information or order it at <http://silentsystem.jp/handypsk.htm>.

The FreeDV/Codec2 folks had a nice display in the main arena. They even showed a concept of an open source digital voice handheld.

See **Hamvention, pg. 6**

Hamvention, from pg.5

Palstar was showing their new TR-30 5-Band SSB/CW (full QSK) touch screen transceiver. Great idea, and it should be out later this year.

GRE America was there and yet not there. This year it was a combined single booth and none of the usual GRE America folks were there as it looked like all Alinco staff manning the booth. GRE made some of the best scanners in the past. It looks like GRE America is trying to become independent and restart scanner manufacturing.

More SDR's were expected this year but only WinRadio and Bonito, with their integrated SDR/Control application on display, were there.



Grandpa's (or great grandpa's) 1906 Edison Cylinder Phonograph. How many MP3 players and a gazillion songs could be stuffed inside this historic machine?

Reports from some of the 18 Florida Contest Group members who attended this year's Hamvention were essentially positive, other than that the food at both the DX and Contest banquets wasn't worth the prices and that Hara Arena (also snidely referred to as Horror Arena) is definitely showing its age.

-- REWARD OFFERED --

A reward of 500 microfarads has been offered for information leading to the arrest of Hopalong Capacity. This unrectified criminal escaped from a Weston standard cell where he had been clamped in ions awaiting the Gauss Chamber.

He is charged with the murder of his Aunt Enna and his Uncle Con Denser, as well as the induction of an 18-turn coil named Millie Henry, who was found choked and robbed of valuable joules. He is armed with a carbon rod and is a potential killer. Capacity is also charged with driving a DC motor over a Wheatstone bridge and refusing to let the band pass.

If encountered, he may offer series resistance. The Electromotive Force spent the entire night searching for him in a magnetic field where he had gone to ground. They had no success and now believe he has returned ohm via a short circuit.

He was last seen riding a megacycle with his friend Eddy Current who was playing a harmonic. Charges against Hopalong Capacity are being considered under those pertaining to Ohm's Law.

(Yeah, that has been around the block a time or two but it's a nice lexicon of electronic terms.)

-- THINGS OF PERSONAL VALUE --

One of the local QRPers (someone new to DXing and who runs barefoot) came by last week and we talked of a number of things. "You know something?" the QRPer said, "I have this new neighbor and he watches birds. Says he has what they call a "Lifetime" of over four hundred. That means he has identified over four hundred species of birds. What do you think of that?"

We thought about this a bit and ventured our opinion. "Sort of sounds like DXing, doesn't it?" and the QRPer smiled in agreement. "I once thought that maybe this fellow was a bit eccentric," the QRPer went on, "but I don't anymore. For I have found that there are many things for which others might raise a question of values but which bring pride and joy and a bit of self-esteem to some. And I have decided that it is not what we might think of something but how others regard it that will establish its value with them."

After hearing all of this we were silent for a bit. Finally we asked "How did you come to figure all of this out?" and the QRPer smiled. "Oh, I just read the ARRL DXCC Country List," and we both smiled at this and said we not a further word on the subject. For as old Will James would often say, "A thing is important if anyone thinks it's important."

(From *DX IS!*, *The Best of the West Coast DX Bulleting* edited and published by Charles T. Allen-W5DV and James M. Allen-W6OGC, c. 1981)

Conversation heard by the office coffee machine:

"Tell me Sam, how long have you been working here?"

"Ever since they threatened to fire me."

June 2013

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4 Breakfast @ Peach's, ± 7:15 AM 440 Net @ 7:30 PM, 444.100 Rptr	5 QCWA Lunch @ Panda Pavilion 11:15 AM	6 TARC Net @ 7:30 PM, W4AC Repeater 146.805	7 Breakfast @ Peach's, ± 7:15 AM	8 TARC VE Session @ 10:00 AM, Venice Library
9	10 DARN Emergency Net @ 11 AM Starts on NI4CE repeater 145.430	11 Breakfast @ Peach's, ± 7:15 AM 440 Net @ 7:30 PM, 444.100 Rptr	12 TARC Meeting @ 7 PM, Coast Guard Training Center	13 TARC Net @ 7:30 PM, W4AC Repeater 146.805	14 Breakfast @ Peach's, ± 7:15 AM	15
16	17	18 Breakfast @ Peach's, ± 7:15 AM 440 Net @ 7:30 PM, 444.100 Rptr	19	20 TARC Net @ 7:30 PM, W4AC Repeater 146.805	21 Breakfast @ Peach's, ± 7:15 AM	22 ARRL Field Day
23/30 ARRL Field Day (cont'd)	24	25 Breakfast @ Peach's, ± 7:15 AM 440 Net @ 7:30 PM, 444.100 Rptr	26	27 TARC Net @ 7:30 PM, W4AC Repeater 146.805	28 Breakfast @ Peach's, ± 7:15 AM	29

NOTE: If the W4AC 146.805 Repeater is inoperative, nets scheduled for activity will be held on the W4AC 444.100 MHz Repeater. Thanks for your cooperation.

**TAMIAMI AMATEUR RADIO CLUB, INC.
MEMBERSHIP APPLICATION**

Name _____ Call Sign _____ Class ____ ARRL (Y/N)____

Local Address _____ City _____ Zip _____

Summer Address _____ City/State _____ Zip _____

Tel. No. _____ E-Mail _____ Application Date _____

Please check activity interests: Ass't Net Control __, RFI/TVI __, VE Testing __, Training __, Packet __, RTTY __,
Computers __, DXing __, Contests __, Field Day __, Publicity __, Emergency Communications __, Special Events __,
VHF/UHF __, SSTV __, ATV __, Repeater __, EchoLink __, Other (specify) _____

Regular Member @ \$25.00/year __, Family Membership @ \$30.00/year __, Non-Voting Student Membership @ \$5.00/year __ . (New Regular Members joining after 30 June pay \$15.00 for remainder of calendar year. \$25.00 dues payment after 31 October grants membership through remainder of year and all of the following year.)

MAIL TO: TARC, 1419 E. MANASOTA BEACH RD, ENGLEWOOD, FL 34223-6341

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2013 TARC Officers

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