



# 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 Repeaters – 444.100 MHz(+) & 146.805 MHz(-) both w/100 Hz PL  
Web Site – <http://tamiamiarc.org>



-- JANUARY 2015 --

## -- PRESIDENT'S MESSAGE --

Tis the season to be jolly and those of you who attended our annual Christmas Party definitely were in that mood. Joy Klapp-N2WUD and Stew Haag-W4MO created another spectacular event, ably assisted Joy's good friends the Gavins. The presence of 42 members and spouses made for a beautiful evening.

Our elections last month pumped some excellent prospects for the year ahead of us. We have a few new projects in the works, which includes a total revamping of our site set up for our yearly participation in the Sharks Tooth Festival. (Have you signed up yet?). We intend to involve the public at our K4S operation which will be April 10 to 12, 2015.

Some of our new members and some of our older members have jumped right into the work pool and that is very much appreciated. Thank you, one and all.

While I'm giving thanks this month allow me to issue one of my biggest thanks to Jack Sproat-W4JS. Jack served our club unflinchingly for 16 years as TARC Secretary. He heads up one of the area's best VE teams, puts out "The Communicator" (to my mind the best newsletter I am privy to), runs our 440 Net and, not to forget, is Secretary of the QCWA Suncoast Chapter 53. Jack has always been willing to go the extra mile for the TARC. THANK YOU JACK!! He has turned over some of his work to Dave Gill.

May you all have a HAPPY NEW YEAR.  
VY 73 de Fred-KJ4TNI

## -- JANUARY MEETING --

Our meeting will start at **7:00 PM** on Wednesday, **14 January 2015** at the Coast Guard Auxiliary Training Center, 1200 South Harbor Drive. Al Culbert-K0AL will offer a correction of history as he addresses the question, "Should It Really Be Called Morse Code?"

*Not to alter one's faults is to be faulty indeed.  
Mediocrity is self-inflicted. Genius is self-bestowed.*

## -- IN-HOUSE WIAW/# COMPETITION --

At the 11 December 2013 TARC meeting, it was proposed that a Club Membership competition be held for working special event station W100AW and the W1AW/portable operations that would occur from every state during 2014. Rules would be derived from the ARRL web page with certificates awarded to the top three TARC members having the most contacts, based on their log entries. A show of hands indicated some interest, and a log format as sent to all members.

Well 2014 has wrapped up and it is known that several TARC members did actively participate in the ARRL Centennial events.

Stan Robinson-W9SMR has created two different certificates for the top scoring members in two different categories.



## ARRL CENTENNIAL POINTS CHALLENGE

**BEST OF TARC - FIRST PLACE**

**To: Ben Splatter - XX4XX**

**??,???,?? Points / ??? QSOs ~ ??? Place Worldwide**

*In recognition of dedicated application of superior amateur radio expertise.*

*Acknowledged by Tamiami Amateur Radio Club this day - 1 January 2015*

*President - Fred Lathwood ~ KJ4TNI*

The above certificate is intended for those members who worked W1AW/# and various "red badge" stations during 2014. These stations had point values for VE's, Life Members, ARRL officers and staff, etc.

Any members applying for this certificate have the individual responsibility to tally up their points earned and number of QSOs. According to <http://www.arrl.org/centennial-qso-party> use of LoTW will enable anyone to compare their points total with the world.

See **Competition**, pg. 4

**Tamiami Amateur Radio Club  
Minutes of the Meeting  
10 December 2014**

President Fred Lathwood-KJ4TNI called the meeting to order at 7:10 PM with a flag pledge. Introductions were then made all around, with Robert Jackson from Englewood being welcomed as a visitor.

**MINUTES** – Fred requested a motion to accept the minutes of the 12 November meeting as published in the December issue of *The Communicator*. Al Culbert-K0AL so moved, seconded by Frank Wroblewski-W2XYZ, and passed.

**CORRESPONDENCE** – E-mail request for attendance intentions at TARC Christmas Party.

**TREASURER'S REPORT** – Treasurer Dave Gill-K4JDG reported that the starting balance was \$3937.12. Receipts were \$21 from the November 50/50, \$125 for 2015 dues and \$10 for name tag sale, for a total of \$156.00. The only expense was \$18.25 for purchase of name tags. The closing balance was \$4,074.87. Bob Avrutik-N1RA moved for acceptance of the report, seconded by Don Jansen-KI4VGE, and passed.

**COMMITTEE REPORTS**

**SUNSHINE** – Nothing known.

**VE TESTING** – A special VE session was held 03 December at the Venice High School, with four candidates. One upgraded to General Class and one passed the Technician exam. We have one firm candidate and two potential candidates for our 13 December session.

**REPEATER/TECHNICAL** – Both the 146.805 and 444.100 machines are operating satisfactorily.

**PUBLICITY/MEMBERSHIP** – San Yoder-K3SY reported that we have 58 full members, of which 15 have paid their 2015 dues, one complimentary member, seven student members and five life members for a total of 71 members.

**NET OPERATIONS** – Fred reminded all of our 440 and 2-meter nets, and was pleased to note that attendance is improving.

**LIAISON TO QCWA** – There were 29 members and spouses at our 03 December lunch at Denny's on Bee Ridge Rd., Sarasota. Stan Robinson-W9SMR offered an entertaining PP program entitled "Blown Away – Stupid Ham Stunts."

**OLD BUSINESS** – Fred stated that he has some plans to improve the public relations aspects of our K4S operation from the Sharks Tooth Festival. This will include better arrangement of the station, having at least two members

at the front table to greet people and distribute brochures, and using a couple CB HTs that kids could communicate with to a remote station.

**NEW BUSINESS** – Annual election: Fred turned the chair over to Dave Gill-K4JDG, the Nominating Committee. Dave showed, on the screen, the current officers, followed by the list of those willing to serve in 2015:

President: Fred Lathwood - KJ4TNI  
Vice Pres: Andy Durette - KB1HIP  
Secretary: Dave Gill - K4JDG  
Treasurer: San Yoder - K3SY  
Directors: Jim Shortill - KJ4NDO  
Conrad Owens - WA3RRS  
Bob Avrutik - N1RA  
Gary Hagens - K6OC  
Tom McDermitt – W3GXV

Dave asked for nominations from the floor and, there being none, Hans Napfel-WB2ZZB moved and Al Culbert-K0AL seconded that the nominations be closed. The motion passed. Al-K0AL moved and San Yoder-K3SY seconded a motion that the secretary cast one vote for all candidates. The motion passed.

**COMMENTS FROM THE FLOOR** – John Kennedy-N2LW announced that he has a 50-watt ICOM duo-band radio for sale. Jim Greenleaf-K1ACT commented about the LUSO Tower and beams of K8XS north of Fruitville Rd. (See <http://www.7163net.com/k8xs/index.html#> for a photo slide show.)

**ADJOURNMENT** – A motion to adjourn was made at 7:45 PM by Al Culbert-K0AL, seconded by Bob Avrutik-N1RA, and passed. There were 25 members and one visitor present.

**PROGRAM** – Hans Napfel-WB2ZZB showed an excellent video on the life of Thomas Alva Edison.

Jack Sproat-W4JS; Outgoing Secretary  
Dave Gill-K4JDG; Incoming Secretary

*I am often asked how radio works. Well, you see, wire telegraphy is like a very long cat. You yank his tail in New York and he meows in Los Angeles. Do you understand this? Now, radio is exactly the same, except that there is no cat. --*  
Attributed to Albert Einstein

*Do ya feel lucky QRPer -- Well do ya? – ("Dirty Harry") Eastwood*

*All the shacks in all the towns in all the world, and the FCC walks into mine. – ("Casablanca") Bogie*

*All ya gotta do is - whistle -- To key or to key not -- A mike test by ("To Have and Have Not") Bacall*

## MAJOR 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
Palestine – E41MT; YL operator	Now Active	49	--	--	--	--	--	--	--	14-16
Morocco – CN2JJ; by F5LYF, CW/SSB	Now to 25 Apr	64	<b>22-09</b>	<b>19-10</b>	<b>18-12</b>	<b>12-00</b>	<b>13-21</b>	<b>13-20</b>	<b>14-19</b>	<b>15-18</b>
French Polynesia – FO/OE1SSS, holiday style	Now to 12 Jan	243	<b>04-13</b>	<b>02-14</b>	<b>02-14</b>	<b>13-03</b>	<b>15-01</b>	<b>15-01</b>	<b>16-00</b>	<b>17-23</b>
Ogasawara – JD1BMH; by JG7PSJ, all modes	Now to 10 Jan	317	<b>07-13</b>	<b>05-14</b>	<b>05-15</b>	<b>20-01</b>	<b>21-23</b>	<b>21-23</b>	<b>22-23</b>	22-23
Cape Verde Is – D44TWO; by DF2WO	Now to 08 Jan	89	<b>21-10</b>	<b>18-12</b>	<b>12-01</b>	<b>12-23</b>	<b>13-22</b>	<b>14-21</b>	<b>15-20</b>	16-19
SMO Malta – 1A0C; International team op.	Now to 06 Jan	50	<b>22-08</b>	<b>19-09</b>	<b>18-08</b>	<b>12-00</b>	<b>13-19</b>	<b>13-18</b>	<b>13-17</b>	<b>14-16</b>
Austral Is – TX5W; by KK6BT	05 to 11 Jan	239	--	<b>02-14</b>	<b>02-14</b>	<b>13-02</b>	<b>15-01</b>	<b>16-00</b>	<b>17-23</b>	<b>20-22</b>
Namibia – V5/G3RWF; **	06 to 13 Jan	107	<b>22-05</b>	<b>21-06</b>	<b>21-06</b>	<b>17-02</b>	<b>12-00</b>	<b>12-23</b>	<b>13-23</b>	<b>13-18</b>
American Samoa – AH0CO/KH8 by JA0JHQ	07 to 12 Jan	256	--	--	<b>03-15</b>	<b>13-03</b>	<b>14-01</b>	<b>17-01</b>	<b>17-00</b>	<b>18-23</b>
Palau – T88SM, HS, HK & CP; JA team	07 to 15 Jan	306	<b>08-13</b>	<b>07-15</b>	<b>07-15</b>	<b>14-01</b>	<b>14-01</b>	<b>15-00</b>	<b>15-23</b>	<b>21-23</b>
Easter Is – XR0YJ; by 7-man JA team	09 to 17 Jan	208	<b>02-12</b>	<b>00-13</b>	<b>23-14</b>	<b>12-05</b>	<b>13-01</b>	<b>14-01</b>	<b>14-00</b>	<b>16-23</b>
Senegal – 6W7SK; by F6BLP, ** holiday sty	10 Jan – 05 Feb	87	<b>22-09</b>	<b>20-10</b>	<b>19-12</b>	<b>12-00</b>	<b>13-23</b>	<b>13-22</b>	<b>14-21</b>	<b>15-20</b>
Haiti – HH5/KC0W; ** (160m also)	11 Jan – 03 Feb	131	<b>00-24</b>	<b>00-24</b>	--	--	--	--	--	--
Laos – XW4XR; by 3W3B	15 to 23 Jan	353	<b>11-13</b>	<b>10-14</b>	<b>10-13</b>	<b>13-01</b>	<b>14-00</b>	<b>14-16</b>	15-16	15-16
Gambia – C5X; by 4-man UK team, all modes	15 to 26 Jan	88	<b>22-09</b>	<b>20-10</b>	<b>19-12</b>	<b>12-00</b>	<b>13-23</b>	<b>13-22</b>	<b>13-22</b>	<b>14-20</b>
Papua New Guinea – P29NK; by DH1NK	15 Jan – 15 Feb	283	<b>08-13</b>	<b>07-14</b>	<b>07-14</b>	<b>07-20</b>	<b>14-01</b>	<b>20-01</b>	<b>20-00</b>	<b>21-23</b>
IRAN – EP6T; by 10-man EU team	16 to 31 Jan	37	<b>22-05</b>	<b>21-06</b>	<b>20-07</b>	<b>12-00</b>	<b>13-17</b>	<b>13-16</b>	<b>14-15</b>	14-15
St. Barthelemy – FJ/N9SW; **	17 to 25 Jan	113	<b>21-13</b>	<b>00-24</b>	<b>00-24</b>	<b>12-00</b>	<b>13-23</b>	<b>13-22</b>	<b>14-21</b>	<b>16-20</b>
Seychelles – S79AC; by OE4AAC, **	17 Jan – 10 Feb	68	--	<b>21-04</b>	<b>21-04</b>	<b>15-00</b>	<b>12-23</b>	<b>13-22</b>	<b>13-21</b>	<b>14-18</b>
Chatham Is – ZL7/JA0JHQ; will try 10m CW	30 Jan – 01 Feb	230	--	--	--	--	<b>20-01</b>	22-01	00-01	00-01
NAVASSA IS – K1N; 15-man team, dates and forecast are tentative	31 Jan – 13 Feb	140	<b>00-24</b>	<b>00-24</b>	<b>13-00</b>	<b>14-22</b>	<b>17-20</b>	17-20	16-21	NO

Updated 03 January based on the 29 December 2014 *The Weekly DX*, the 01 January 2015 *QRZ DX* and, <http://www.ng3k.com>

**Notes:** **Time in bold** = the Bands with 75-100% opening; ??? = Call Sign not yet known; ++ = Mostly SSB; \*\* = Mostly CW; NO = No Opening forecast. Long Path bearings and opening times are underlined. All forecasts calculated using *W6ELProp* propagation software. Solar Flux and K-index varied by date in accordance with the NOAA SWPC 27-day Space Weather Outlook Table and USAF 45 Day AP Forecast.

### -- DECEMBER SOLAR ACTIVITY --

The Solar Flux ranged from 129 to 216, with a mean value of 158.8 (vs. 147.7 for December 2013 and 108.5 for December 2012), and the  $A_p$  index was  $\geq 7$  on 25 days. The December sunspot number ranged from 58 to 175, with a mean of 120.0.

December was a rather quiet to unsettled month, with one X-class, 17 M-class and 241 C-class flares. While the polar paths were sometimes closed, propagation was generally favorable on all HF bands.

### -- JANUARY FORECAST --

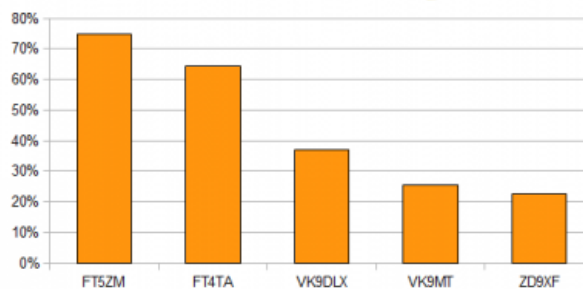
Solar activity is expected to be predominantly low through 04 January, with low to moderate (R1-minor) levels 05 through 19 January. Mostly low levels are expected through the rest of January.

No proton events are expected during the month.

The greater than 2 MeV proton event at geosynchronous orbit is expected to be at moderate to high levels through 17 January, and again on 21-24 January. Normal levels are expected 18-20 January.

Geomagnetic field activity is expected to be at unsettled to active levels through 05 January, 08-11 January, 21-22 January, and 24-31 January. Minor storm levels are possible 03, 18 and

30 January. The remainder of the outlook period is expected to be at predominantly quiet levels.



**Top slot and outright winner is FT5ZM.** A superb effort by a dedicated and professional team focused on giving **Amsterdam Island** to many.

**Runner-up** and, at times, very close to winning is **FT4TA**. Another excellent activity. **Tromelin Island** is now well and truly removed from the most wanted list. Bravo!

**Third place** – in their own right - goes to **VK9DLX**. The Lagunaria DX Group pulled off another great DXpedition.

**Fourth place** to **VK9MT**. True recognition of the hardship and sacrifices this team went through.

**Fifth place** (out of 27) went to **ZD9XF**.  
(From *DXWorld.net*, 02 January 2015)

## MAJOR CONTESTS DURING JANUARY 2015

PODXS 070 PSKFest			ARRL RTTY Roundup			North American QSO Party		
03 Jan 0000Z		03 Jan 2400Z	03 Jan 1800Z		04 Jan 2359Z	10 Jan 1800Z		11 Jan 0559Z
3.5-28	--	PSK31	3.5-28	--	RTTY/Digital	1.8-28	--	CW
Call sign, RST, S/P/C			RST, S/P/C, Serial			Name, S/P/C		
<a href="http://www.podxs070.com">www.podxs070.com</a>			<a href="http://www.arrl.org/contests">www.arrl.org/contests</a>			<a href="http://www.ncjweb.com">www.ncjweb.com</a>		
Hungarian DX Contest			North American QSO Party			REF French Contest		
11 Jan 1200Z		18 Jan 1200Z	17 Jan 1800Z		18 Jan 0559Z	24 Jan 0600Z		25 Jan 1800Z
1.8-28	--	SSB & CW	1.8-28	--	SSB	3.5-28	--	CW
RS(T), Serial			Name, S/P/C/			RST, Serial		
<a href="http://www.ha-dx.com">www.ha-dx.com</a>			<a href="http://www.ncjweb.com">www.ncjweb.com</a>			<a href="http://www.concours.ref-union.org/contest">www.concours.ref-union.org/contest</a>		
BARTG RTTY Sprint			ARRL January VHF Contest			UBA Contest		
24 Jan 1200Z		25 Jan 1200Z	24 Jan 1900Z		26 Jan 0359Z	31 Jan 1300Z		01 Feb 1300Z
3.5-28	--	RTTY	--	50+	SSB & CW	3.5-28	--	SSB
Serial			4-character Grid Square			RS, Serial		
<a href="http://www.bartg.org.uk">www.bartg.org.uk</a>			<a href="http://www.arrl.org/contests">www.arrl.org/contests</a>			<a href="http://www.uba.be/en/hf/contest-rules">www.uba.be/en/hf/contest-rules</a>		

Legend: Serial = 3-digit 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: Only major contests are shown, i.e. state QSO parties, miscellaneous sprints, etc. are not shown. See <http://www.arrl.org/files/file/Contest%20Corral/Contest%20Corral%201501v4.pdf> for the complete list of the 38 contests/sprints/QSO parties/etc. that will be on during January.

### -- TARC DUES REMINDER --

Your 2015 TARC membership dues can now be paid anytime at your convenience. There are two months remaining before those who haven't renewed for 2015 will be dropped from the membership roster after the 2-month grace period expires 28 February. If you can't pay at a meeting, mail a check to Treasurer San Yoder-K3SY, 1820 Batello Drive, Venice, FL 34292, or to the masthead address shown above.

When you do renew, please submit a Membership Application and check off your personal interests in Amateur Radio. The data from that input can be used to ultimately create subgroups within the TARC for those sharing common interests.

The second certificate designed by Stan is for those members who were only, or mainly, interested in working the W1AW/portable stations from the 50 states and overseas possessions. TARC stations in this category have the responsibility to tally up their total QSO's and list the states and possessions working.

Currently there is no set date by which all submittals must be made, however, it seems reasonable that interested stations could have the data available by 31 January 2015. Submit your log records to Dave Gill-K4JDG or review and safe keeping.

### -- FIRST SUCCESSFUL TRANSISTOR TEST --

(By Jessica MacNeil, published 16 December 2014 on EDN Network, <http://www.edn.com>)

What began as research to improve telephone service became one of the most important inventions in electronics history.

In 1945, AT&T's research division, Bell Labs, began working on technology to replace vacuum tubes and make long-distance telephone service more reliable. William Shockley organized a solid-state physics group to research semiconductor replacements for vacuum tubes and electro-mechanical switches.

Possibly influenced by **JE Lilienfeld's idea** for the field-effect transistor patented in 1926, Shockley conceived of a "field-effect" See **Transistor**, pg. 5

Competition, from pg. 1



**ARRL CENTENNIAL - W1AW/#**

**BEST OF TARC - FIRST PLACE**

**To: Ben Splatter - XX4XX**

**Total W1AW Portable Stations worked:**

**??? QSOs with ??? W1AW/# in**

**?? States and Territories**

In recognition of dedicated application of superior amateur radio expertise.

Acknowledged by Tamiami Amateur Radio Club this day - 1 January 2015

President - Fred Lathwood ~ KJ4TNI

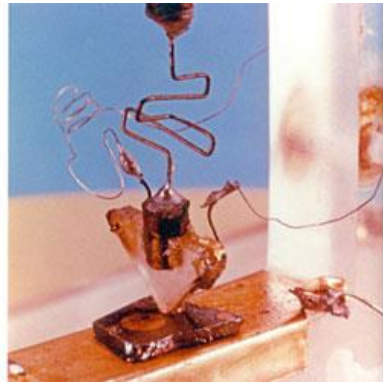
## Transistor, from pg. 4

amplifier and switch based on recent germanium and silicon technology. He built a small cylinder coated thinly with silicon, mounted close to a small, metal plate, but was unable to get it to work.

A member of the research team, John Bardeen, suggested electrons on the semiconductor surface could be blocking the penetration of electric fields in Shockley's experiments. Bardeen and Walter Brattain began using a silicon contraption built to help study how electrons acted on the surface of a semiconductor to test the theory.

It wasn't until December 16, 1947 that the first successful test of their semiconductor amplifier occurred.

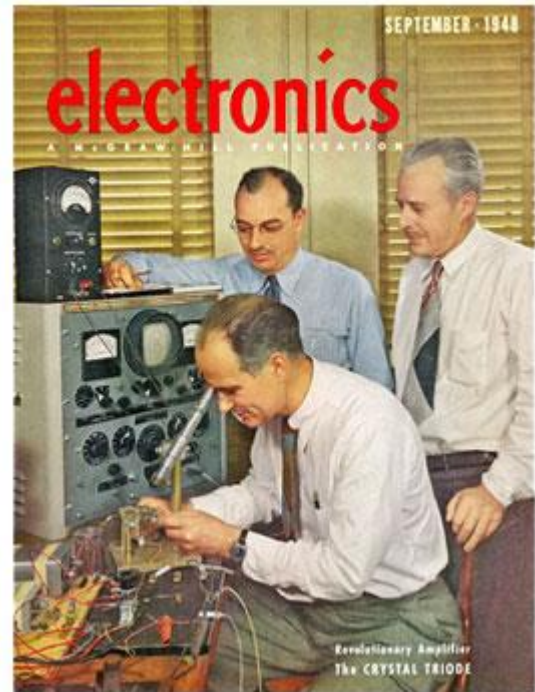
They applied two closely-spaced gold contacts held



Bardeen and Brattain's first point-in place by a contact transistor. (Source: [Computer History Museum](#))  
to the surface of a small slab of high-purity germanium. The voltage on one contact modulated the current flowing through the other, amplifying the input signal up to 100 times.

The team **demonstrated the discovery a week later on December 23**, often considered the date the transistor was invented.

Bell Labs publicly announced the device at a June 30, 1948 press conference, where a spokesman claimed that "it may have far-reaching significance in electronics and electrical communication."

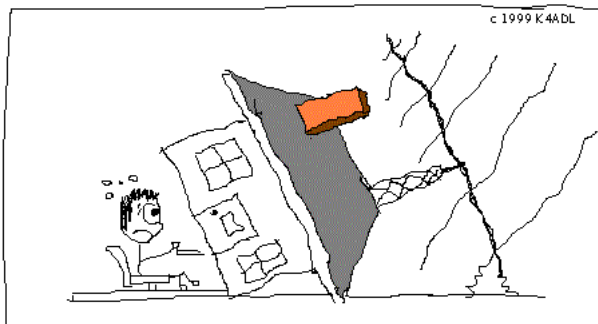


Transistor inventors Bardeen, Brattain (standing L-R), and Shockley (seated) on the cover of Electronics magazine in Sept 1948. (Source: [Computer History Museum](#))

Bardeen, Brattain, and Shockley were jointly awarded the 1956 Nobel Prize in Physics for their work.

*This article was originally posted on December 16, 2013 and edited on December 16, 2014. We are indebted to Andy Durette-KB1HIP for alerting us to this article.*

## K4KDL KARTOON KORNER



DONALD HAD BEEN WARNED TO CENTER THE 40 METER BEAM ON HIS ROOF.

# January 2015

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1 TARC Net @ 7:30 PM, W4AC Repeater 146.805	2 Breakfast @ Peach's, ± 7:00 AM	3
4	5	6 Breakfast @ Peach's, ± 7:00 AM 440 Net @ 7:30 PM, 444.100 Rptr	7 QCWA, 11:15 @ Denny's, Bee Ridge Rd. Sarasota	8 TARC Net @ 7:30 PM, W4AC Repeater 146.805	9 Breakfast @ Peach's, ± 7:00 AM	10 <b>TARC VE Session 10 AM Venice Public Library</b>
11	12 DARN Emer- gency Net @ 11 AM Starts on NI4CE re- peater 145.430	13 Breakfast @ Peach's, ± 7:00 AM 440 Net @ 7:30 PM, 444.100 Rptr	14 <b>TARC Meet- ing @ 7 PM, Coast Guard Training Center</b>	15 TARC Net @ 7:30 PM, W4AC Repeater 146.805	16 Breakfast @ Peach's, ± 7:00 AM	17
18	19	20 Breakfast @ Peach's, ± 7:00 AM 440 Net @ 7:30 PM, 444.100 Rptr	21	22 TARC Net @ 7:30 PM, W4AC Repeater 146.805	23 Breakfast @ Peach's, ± 7:00 AM	24
25	26	27 Breakfast @ Peach's, ± 7:00 AM 440 Net @ 7:30 PM, 444.100 Rptr	28	29 TARC Net @ 7:30 PM, W4AC Repeater 146.805	30 Breakfast @ Peach's, ± 7:00 AM	31

NOTE: If the W4AC 146.805 Repeater or the 444.100 Repeater are inoperative, nets scheduled for activity will be held on 146.580 MHz simplex. 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 Letters of Interests: (N) Net Control\_\_, (I) RFI/TVI\_\_, (V) VE Testing\_\_, (T) Training\_\_, (P) Packet\_\_,  
(Y) RTTY\_\_, (D) PSK, etc.\_\_, (O) Computers\_\_, (X) DX\_\_, (C) Contests\_\_, (F) Field Day\_\_, (Q) Publicity\_\_, (E)  
Emergency Communications\_\_, (S) Special Events\_\_, (U) VHF/UHF\_\_, (A) ATV/SSTV, (R) Repeater\_\_, (L)  
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

**TAMIAMI AMATEUR RADIO CLUB, INC.  
1419 E. MANASOTA BEACH ROAD  
ENGLEWOOD, FL 34223-6341**

*The Communicator* is a monthly publication  
Of the Tamiami Amateur Radio Club, Inc.  
Editor: Jack Sproat-W4JS  
Circulation: San Yoder-K3SY

2013 TARC Officers

President: Fred Lathwood-KJ4TNI  
V. President: Andy Durette-KB1HIP  
Secretary: Dave Gill-K4JDG  
Treasurer: San Yoder-K3SY  
Directors: Jim Shortill-KJ4NDO  
Conrad Owens-WA3RRS  
Gary Hagens-K6OC  
Tom McDermitt-W3GXV