



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>



-- MARCH 2016 --

-- PUBLISHER'S MESSAGE --

All TARC members were recently advised via e-mail of the notice of resignation by Fred Lathwood-KJ4TNI as TARC President. Pending a formal resignation from Fred, Vice President Andy Durette-KB1HIP will conduct our business meetings until an election can be held in conformance with the club's bylaws. Fred has stated, "I'm stepping down but I'm not stepping out," as his heart is truly with the TARC.

Proof of that was evident during a recent informal meeting with TARC officers, wherein Fred wanted to discuss the communications assistance the club had promised to the sponsors of the 05 March 10K Sharks Tooth Run. Also high on his "to do" list is coordination with the sponsors of the 08-10 April Sharks Tooth Festival with regard to the location for our special event station K4S on the festival grounds.

It appears that good support has come forth for the 05 March run, including two student members from Venice High School who are eager to participate. As the Festival is a bit earlier this year, hopefully some of our experienced snowbird members will still be here to lend assistance. As Fred stated last month, Jim Shortill-KJ4NDO in contact with the Boy Scouts and TARC has provided Technician Q&A manuals for their use. Activity is swirling about.

Some of our members are providing physical support to the TARC. The down side is that it seems that the same members provide this support. Why do only 10-20% of the members do 100% of the work? Is it a "been there, done that" attitude? Yes, virtually all of us are retired but does that mean you're not young enough to consider being a candidate for office, or assisting with our club activities? Only five (5) of the current TARC membership were members 18 years ago, and they all served the club in one capacity or other. Where will the club be 18 years from now without active participation by its current members? Think about that and act upon it! We need your support more than ever!!

73 to All, Jack Sproat-W4JS

-- MARCH MEETING --

Our meeting will start at **7:00 PM** on Wednesday, **09 March 2016** at the Coast Guard Auxiliary Training Center, 1200 South Harbor Drive. The program has not been determined at "press time" but Program Director Hans Napfel-WB2ZZB will undoubtedly have something to offer of interest to all.

-- PETITION FOR LIFETIME LICENSES --

The FCC is seeking comments on a *Petition for Rule Making* ((RM 11760-- on the web at <http://apps.fcc.gov/ecfs/document/view?id=60001333714>) that asks the FCC to grant lifetime Amateur Radio licenses. Mark F. Krotz, N7MK, of Mesa, Arizona, filed his request with the FCC last November. He wants the FCC to revise § 97.25 of its rules to indicate that Amateur Radio licenses are granted for the holder's lifetime, instead of for the current 10-year term. Krotz noted that the General Radiotelephone Operator License (GROL) already is issued on a lifetime basis, and he maintained that not having to renew licenses would lighten the FCC's workload.

"It would be mutually beneficial for the FCC and Amateur Radio operators to update Part 97 to grant operator licenses for lifetime," Krotz said in his filing. "The FCC would benefit by reducing administrative costs."

In 2014, the FCC granted lifetime credit for examination elements 3 and 4, but applicants seeking relicensing under that provision still must pass examination Element 2.

Individuals may submit their comments via (<http://apps.fcc.gov/ecfs/proceeding/view?name=RM-11760>) to the FCC's Electronic Comment Filing System (ECFS).

(From *ARRL Bulletin 8 ARLB008*, 24 February 2016)

NOTE: For those who have not paid their 2016 TARC dues, this will be the last issue of The Communicator which you will receive. We hate to lose you, but we wish you well in the fascinating hobby of Amateur Radio.

TAMIAMI AMATEUR RADIO CLUB
Minutes of the Meeting
10 February 2016

Ms. Karen Haynes, Race Director for the Shark Tooth 10K race, briefed the membership prior to the start of the meeting.

She noted that the 10 K race had been moved one month earlier in advance of the Shark Tooth Festival to Saturday, March 5, 2016. The race begins at 7:30 AM. She passed out maps for the race route, "T" shirts for the volunteers, and provided the following information. All runners have race bibs. If TARC monitors see a "Band-Aid event," example, skinned hand from a slight fall, and the runner says that they are OK, notify the TARC radio net control. However, if the event is or looks serious, or the runner says that they are hurt, dial 911 and then notify TARC net control. With respect to the last runner identification, Karen said she would notify us later about the method to be used.

After Karen Haynes' presentation, President Lathwood, KJ4TNI, called the meeting to order at 7:07 PM and led the members in the Pledge of Allegiance to the Flag.

The following visitors were recognized: KD9EIN, Mel, Rochester, IN; W1XXV, Joe, East Waterboro, ME; K1YPP, Dennis, Sarasota, FL; W0EAR, Don, Shore View, MN; K1TH, Tom, Plymouth, MA; WB8FXJ, Will, Cincinnati, OH and Englewood, FL; WA9DYH, Jim, South Bend, IN.

MINUTES: President Lathwood requested a motion to accept the minutes of the January meeting as published in the Communicator. The motion was made, seconded and accepted.

TREASURER'S REPORT: Treasurer San Yoder, K3SY, reported a beginning balance of \$5,900.76. January expenses were \$0.00. Receipts were \$167.76. Current balance is \$6,067.76. Motion was made to accept the Treasurer's report. It was seconded and approved.

COMMITTEE REPORTS:

Sunshine: Nothing Discussed

VE Testing: Jack Sproat, W4JS, advised that all testing was now to be held in the Jacaranda Library, using the same test schedule as previously used at the Venice Library. For the upcoming Saturday examinations, Jack reported that he had four, maybe five candidates to take the exam.

Repeater/Technical: Both the 146.805 and the 444.100 repeaters are operating satisfactorily.

Publicity/Membership: San Yoder, K3SY, reported that we have 56 regular members with 9 additional members who have not yet paid their yearly dues.

Net Operations: President Lathwood, KJ4TNI, reported that both nets were well attended and seemed to be running OK.

Liaison to QCWA: Jack Sproat, W4JS, reported that 34 people attended the January lunch meeting of Suncoast Chapter 53.

OLD BUSINESS:

1. Shark Tooth 10K: President Lathwood, KJ4TNI, advised TARC volunteers for the 10K road race to meet him at 6:30 AM, Saturday, March 5, 2016, on the access road to the Airport festival area, vicinity of the old circus buildings, now demolished. Fred will hand out HTs, event "T" shirts and provide final instructions at that time.

2. Report on Exercise Deer Prairie conducted by the Sarasota Emergency Operations Center (EOC): Jim, KJ4NDO, attended as a volunteer radio operator. This one day exercise was devised to test the readiness of volunteer operators and EOC staff to respond to a simulated wildfire. The exercise was conducted in accordance with FEMA Incident Command System procedures. Jim was assigned to the Transportation Group responsible for providing transportation of personnel and equipment during the exercise. Other groups of Hams were required to set up and operate from a field environment. Messages received by radio tasked the various elements of the EOC system to respond, mutually coordinate, and resolve simulated problems based upon events that have occurred during previous disaster operations.

Jack Sproat, W4JS, noted that a tornado struck Siesta Key within a couple of days after the exercise, with extensive property damage. He indicated that two ham operators were active during this event; one at the Sarasota EOC and one at the damage site; quite a contrast to planned exercises.

NEW BUSINESS:

1. USCG Radio Trailer -- President Lathwood explained that the USCG radio trailer was available for sale for about \$5,000.00 dollars. After discussion, President Lathwood asked for a show of hands from members who were interested in the Club purchasing the radio trailer. No hands were raised. President Lathwood declared the issue resolved and that the Club had no interest in buying the trailer.

See Minutes, page 5

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
Solomon Is - H44MS by DL2GAC, 80-6m	Now to 14 April	275	07-12	06-13	06-13	13-16	14-16	14-16	NO	NO
Falkland Is – VP8DPD by VK4BGL	Now to 01 April	165	00-10	23-11	23-11	21-02	13-22	14-21	15-20	15-20
Angola – D2/CT1ITE; CW/SSB, spare time	Now to 31 Mar	96	23-06	22-07	21-07	18-01	16-21	15-20	16-20	15-20
Sao Tome & Principe – S9BK by HB9BEI	Now to 25 Mar	90	--	22-07	20-08	12-01	13-00	14-21	16-20	15-21
Mozambique – C92CC, C91IJ	28 Feb – 07 Mar	101	23-04	22-05	21-06	19-22	18-21	18-20	17-21	17-20
Guinea – 3XY1T by I2YSB & team, incl 6m	Now to 04 Mar	90	23-08	21-10	20-09	12-01	13-00	14-21	15-20	15-21
East Kiribati – T32TR, CO, SB, MU, etc.	01 to 16 March	267	04-12	03-14	01-14	16-02	17-00	18-22	18-21	18-21
Marshall Is – V7??? By AH6OY all modes	01 to 07 March	282	06-13	05-14	03-15	13-15	19-00	19-22	19-23	20-22
Marquesas Is – TX7EU by 4 op team	03 to 15 March	245	03-13	01-14	00-15	15-02	15-01	16-23	17-21	17-23
Equatorial Guinea – 3C7GIA by LA7GIA	04 to 13 March	86	23-06	22-07	20-08	17-00	14-22	15-21	15-21	NO
Uganda – 5X1XA by G3SWH ** holiday stl	04 to 16 March	77	23-04	22-05	23-04	21-01	20-22	20-00	20-22	NO
So. Cook Is E51AQA by VE7AQA ++	04 to 19 March	246	04-12	03-14	--	16-02	17-01	18-00	18-22	18-22
San Andres – 5J0P by 8 op Polish team	06 to 21 March	177	21-14	00-24	12-07	13-02	14-23	16-22	17-21	17-21
Swaziland – 3DA0CC, 3DA0IJ	08 to 15 March	106	23-04	22-06	22-06	19-21	19-20	18-21	18-20	17-19
Palau – T88XH by JA0EKI, CW/SSB/Digital	09 to 15 March	307	09-12	08-13	08-13	13-16	14-17	14-17	16-17	NO
Isle of Man – GD4SKA by GW4SKA, digital	15 to 23 March	41	23-08	21-11	20-11	13-21	15-18	16-18	1700	NO
Minami Torishima – JG8NQJ/JD1, **	15 Mar – 15 May	308	08-12	06-13	06-14	12-16	13-16	21-00	21-00	NO
Palau – T88KH & T88KU	17 to 21 March	307	09-13	08-13	08-13	13-16	14-17	14-17	16-17	NO
St Pierre & Miquelon – FP/KV1J, CW/SB/Ry	17 to 29 March	39	23-11	00-24	11-02	13-00	15-20	16-19	NO	NO
Mayotte – FH/F2DX, FH/F6BEE	18 to 24 March	85	23-03	23-04	23-03	22-00	23-01	21-22	NO	NO
Palau – T88IR by JF1DIR, CW/Digital	20 to 25 March	307	--	08-13	08-13	13-16	--	14-17	--	NO
Heard Island – VK0EK by 13 op team	20 Mar – 10 Apr	152	00-02	23-04	00-04	03-07	06-07	NO	NO	NO
Mayotte – FH/F4ET ++	24 Mar – 21 Apr	85	--	23-04	23-03	22-00	23-01	21-22	NO	NO
Juan de Nova – FT4JA by 9 French ops	29 Mar – 11 Apr	91	00-03	23-04	00-03	21-01	21-01	2130	NO	NO
Svalbard – JW/DL7DF & friends, all modes	30 Mar – 04 Apr	13	00-08	23-11	23-11	13-21	14-21	13-23	1930	NO

Updated 24 February based on 22 Feb *The Weekly DX*, 24 Feb *QRZ DX* and the NG3K Contest-DX site, <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.

-- FEBRUARY SOLAR ACTIVITY --

Through 28 February the 10.7 cm Solar Flux ranged from 88 to 123, with a mean value of 103.9 (vs. 128.5 for February 2015 and 170.3 for February 2014), and the A_p index was ≥ 7 on 17 days. Through 27 January, the sunspot number ranged from 26 to 113, with a mean of 57.2.

Space weather during February ranged from quiet to active with three M-class and 136 C-class flares through February 27th. Severe geomagnetic disturbances from multiple CMEs peaked the A_p to 48 on 08 February and 39 to 56 during 16 to 18 February.

-- MARCH FORECAST --

Solar activity is expected to be at low levels with a slight chance for M-class flares (Minor-Moderate Radio Blackouts) 15-19 March. C-class flares are expected 01-14 March.

No proton events are expected.

The greater than 2 MeV electron flux is expected to reach high levels 15-19 March.

Geomagnetic field activity is likely to reach G1 (Minor) storm levels 14-16 March and active conditions are likely on 01, 03, 06, 17, and 28-30 March.

The solar flux should range from 95-115 and average 106.7 during March.

(From NOAA Weekly Highlights and Forecasts, 22 February 2016, NOAA 27-day Space Weather Outlook Table, 22 February 2016, and 45 Day AP Forecast, USAF, 22 February 2016.)



The eight Italian operators on the 3XY1T DXpedition from Los Island, Guinea are doing a fantastic job on all bands and modes, having run up some 68,000 Q's by 28 February. Their use of a Real Time Log that updates within a minute or less is a great means of confirming Q's and preventing dupes. Propagation has been favorable and they should be there until 04 March. If you need Guinea for an ATNO or band slot filler, go get them while you can.

“WORKING DX IS A CONTACT SPORT”

MAJOR CONTESTS DURING MARCH 2016

ARRL International DX Contest		Open Ukraine RTTY Championship		QCWA QSO Party	
05 Mar 0000Z	06 Mar 2359Z	05 Mar 1800Z	06 Mar 1359Z	12 Mar 1800Z	13 Mar 1800Z
1.8-28	--	SSB	1.9-28	--	RTTY
RS, State		State, Serial		Yr. 1 st lic (e.g. 54), Name, S/P or Ch #	
www.arrrl.org/arrrl-dx		http://uarl.com.ua/openrtty/2015-rules/rtty2015e.txt		http://www.qcwa.org/2016-qso-party-rules.pdf	
TESLA Memorial HF Contest		North American Sprint		BARTG HF RTTY Contest	
12 Mar 1800Z	13 Mar 0759Z	13 Mar 0000Z	13 Mar 0400Z	19 Mar 0200Z	21 Mar 0200Z
3.5	--	CW	3.5-14	--	RTTY
RST, Serial 4-digit Grid Square		Both Call Signs, Serial, Name, S/P		RST, Serial, 4-digit UTC Time	
http://www.radiosport.org.rs/HFTeslaMemorial/		http://ncjweb.com/Sprint-Rules.pdf		http://www.bartg.org.uk/	
Russian DX Contest		FOC QSO Party		CQ WW WPX Contest	
19 Mar 1200Z	20 Mar 1200Z	26 Mar 0000Z	26 Mar 2359Z	26 Mar 0000Z	27 Mar 2359Z
1.8-28	--	CW, SSB	1.8-28	50-144	CW
RS(T), Serial		RST, Name, Member # (if any)		RS, Serial	
http://www.rdx.org/asp/pages/rulesg.asp		http://g4foc.org/qsoparty/		www.cqwwpx.com/rules.htm	

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.arrrl.org/files/file/CORRAL_QST_3-2016.pdf for the complete list of the contests/sprints/QSO parties/etc. that will be held during March.

-- UPCOMING "BIG ONES" --



Ranked #5 Most Wanted worldwide, Heard Island hasn't been on since early 1997. Propagation will be less than ideal, however, *quien sabe?* Give it a try now or wait another 20 years.



Juan de Nova/Europa ranks #6 Most Wanted worldwide, so this 29 March – 11 April operation will be popular and propagation looks good.

-- ORLANDO HAMCATION --



Impressive turnout in the main exhibition hall.



More activity in the main exhibition hall.

(TNX to Bob Marchese-K1NOK for the photos.)

MINUTES, from page 2

2. Boys Club and Girls Club -- President Lathwood mentioned the Boys Club and Girls Club as organizations that TARC could reach out to, to interest them in Ham radio as an element of community service. He noted that successful clubs were marked by members seeking out to community organizations, such as schools, to spread the word about the benefits of Ham radio and Ham service. He encouraged members to be creative, and active.

COMMENTS FROM THE FLOOR: None.

ADJOURNMENT: Club business having been concluded, President Lathwood requested a Motion to Adjourn. The motion was made, seconded and approved. There were 31 Hams in attendance.

PROGRAM:

Jack Sproat, W4JS, showed slides from a three day horseback vacation that he and his wife Yuli recently took in New Mexico. Hans Napfel, WB2ZZB, provided technical camera assistance for Jack and Stew's presentations.

Stew Haag, W4MO, showed a slide presentation of three telecommunications disks being installed on a mountain top in Papua Barat, Indonesia. The installation will be used to link three distant schools for educational purposes.

He also demonstrated a free APP named ZELLO, that allowed him to talk easily to his son in Wamena, Papua Barat, Indonesia. Amazingly, it took about as much time as it would to sip from a cup of coffee, as it did to establish very clear communications between Venice, FL and Indonesia, i.e., "Hello son," Over. Sip the coffee. "Hello, Dad, How are you?," Over.

Imagine how many miles per second those words travelled.

James Shortill, KJ4NDO
Secretary

-- POLISH CODEBREAKERS VS. ENIGMA --

(From "Polish codebreakers 'cracked Enigma before Alan Turing'" by Sarah Knapton, Science Editor, *The Telegraph*, 17 February 2016)

Much publicity has been given to the British codebreakers at Bletchley Park, however, Polish codebreakers were the first to decipher the codes generated by the famous German Enigma machine. Alan Turing, as portrayed in the film "The Imitation Game" could not have cracked the Enigma Code without the help of Polish mathematicians and it is time to "right the

wrong" and acknowledge their contribution, the Polish government has said.

The Enigma machine was invented by German engineer Arthur Scherbius at the end of the First World War and it was used by the military and government of several countries (*Including the U.S.*). The British had struggled to work out how to crack the early Enigma machines, and by the early 1930s the Poles were way ahead.



A 1935 Enigma machine, used by Germans to encrypt messages during World War II

Now the Polish government has launched a touring exhibition entitled "Enigma – Decipher Victory" to remind the world of their crucial contribution. They have already taken the exhibition to Canada and Brussels.

But few people realize that early Enigma codes had already been broken by the Poles who then passed on the knowledge to Britain shortly before the outbreak of war. They even taught Turing how to build electro-mechanical devices which simulated the workings of the Enigma machine and enabled operators to cycle through one possible setting after another. By the time war broke out, the Germans had increased the sophistication of the machine and the Poles were struggling to make more headway. But based on the Polish knowledge, Turing managed to build a huge computer that would finally crack the cipher.

Poland's main codebreakers were Jerzy Rózycki, Henryk Zygalski and Marian Rejewski who joined the Polish General Staff's Cipher Bureau in Warsaw. While Britain still used linguists to break codes, the Poles had understood that it was necessary to use mathematics to look for patterns and had broken some of the early pre-war German codes. They had then taken a further step by building electro-mechanical machines to search for solutions,

See ENIGMA, pg. 6

-- ENIGMA --

which they called "bombes".

On the eve of war in 1939 Bletchley code-breakers Alastair Denniston and Dilly Knox met with members of the Cipher Bureau at a secret facility in a forest in Pyry near Warsaw to share their knowledge. Alan Turing, also later visited the Polish codebreakers and used their knowledge to develop his own "bombe" capable of breaking the more complex Enigma codes.



A replica of the Turing Bombe machine, used for cracking German military Enigma codes, at Bletchley Park

But the Poles have received little credit, e.g., most notably in the recent film "The Imitation Game" where their contribution was dismissed with a single sentence.

Despite their efforts, a British desire to appease Stalin meant that Polish forces, under the command of Poland's independent government in exile, were banned from taking part in official V-E Day celebrations. (Kai Siwiak-KE4PT, who alerted the Mid Florida DX Association to this article, commented "That British 'Stalin appeasement policy' prohibited my parents and grandparents from marching in the WW-II victory parade, yet all fought in British uniforms during the war.")

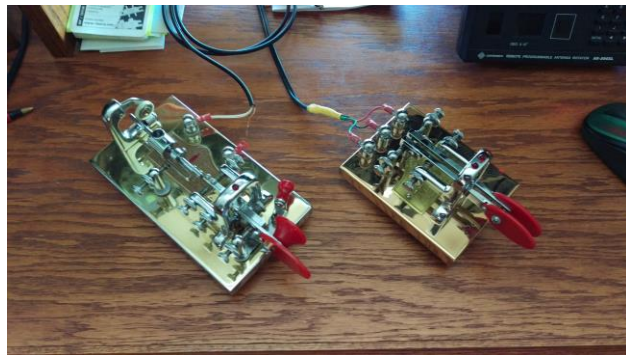
It is hoped that the touring "Enigma -- Decipher Victory" exhibition will not only do justice to the people involved but also underline and underscore the strong cooperation between Britain and Poland when it came to Enigma.



-- KEYS, WE'VE GOT KEYS!! --

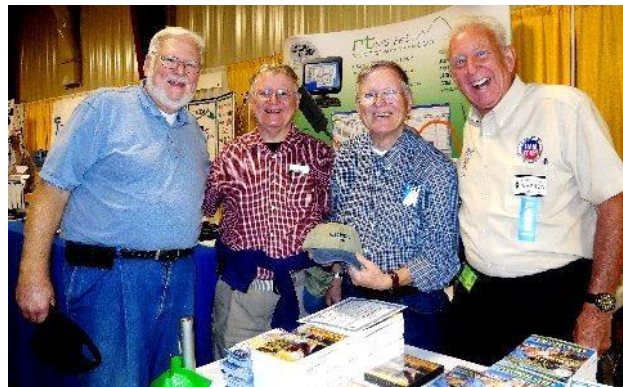


Here is a Morse key Don Watson-K9DDO made back in 1989 when he had a lathe. The knob is from England and he bought it at a ham-fest in Princeton, IL. Don uses it on Straight Key Night which he claims really makes him sound like a novice.



Ham-o-holic Dan Schaaf-K3ZXL got some cleaning liquid and polishing cloth for gold and brought his 1959 Gold Presentation Vibroplex Bug and iambic key to a beautiful luster.

-- BACK TO HAMCATION AGAIN --



Glenn Hyde-N4MXQ, Joe Shortill-W1XXV, Jim Shorill-KJ4NDO and training guru Gordon "Gordo" West -WB6NOA share a light moment.

March 2016

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

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.
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Circulation: San Yoder-K3SY

2015 TARC Officers

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V. President: Andy Durette-KB1HIP
Secretary: Jim Shortill-KJ4NDO
Treasurer: San Yoder-K3SY
Directors: Gary Hagens-K6OC
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