



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>



-- APRIL 2012 --

-- PRESIDENT'S MESSAGE --

Another month gone by in a flash, with the resulting migration of a fair share of our snow birds. I have it from good authority that they will return in six or seven months. In the meantime, a solid crew of the remaining stalwarts have readied the handhelds for the Sharks Tooth 10K Run on April 14.

Last month, if I'm not mistaken, I tossed out a challenge concerning electronic projects. What with no response, I am tossing it out again. It could be as simple as cataloging your QSL cards, to building a QRP rig. Yours truly has begun crafting a portable, hand held Yagi, for my Yaesu VR-7. I know DXing is a great endeavor, but wouldn't it be at least as rewarding to build a piece of gear to finally reach a contact you've been trying to snag for a long time?

As an added thought, we all seem to enjoy the programs given after our business meetings. So why not toot our own horns by showing our members what a little creativity can accomplish?

In the next couple of months I will be putting together my shack. Some of the equipment has been ordered and the layout for the wiring has been drawn out. This means I will at last be able to work HF alongside the rest of you (well maybe just behind you to start) and share QSLs at breakfast.

In closing, let's hope all our northern members reach the barren straits of their summer abodes without trouble.

73, Fred-KJ4TNI

-- MARCH MEETING --

Our meeting will start at **7:00 PM** on Wednesday, **14 March 2012** at the Coast Guard Auxiliary Training Center, 1200 South Harbor Drive. San Yoder-K3SY will give an audio-visual presentation describing an Emergency Preparedness exercise held 31 March in the Venetian Falls community. Come out and see how ham radio factored into the exercise.

-- PROPOSED VACUUM TUBE PC --

(Ed. Note: The following is a summary of a paper to be presented by Lord Euphell Forritt at the 01 April meeting of the Venetian Cybernuts Komputer Klan.)

Having a better background in vacuum tubes vis-à-vis solid state devices, I decided to use tubes for the construction of my 01-04 PC. I chose the 12AX7—a relatively cheap dual-triode.

With at least 8 MB of RAM, quite a number of tubes were required, so I ordered directly from a factory in the small Baltic country of Krapup Wackout. I used Nokitoff, the company's president, was flabbergasted at the order—he acted as if no one had ever before placed an order for 4 million 12AX7's and tube sockets! As point-to-point wiring would be done, I found that my store-bought computer lacked capacity to calculate the number of solder connections or the amount of solder needed for this project.

When I contacted FPL, I had trouble making them understand the need for 105 kv feed mains in order to reduce the current load of the 01-04 PC.

I'll need to construct a 350,000 sq. ft. building to house the 01-04 PC. To handle the heat, exhaust fans with 200,000 cu. ft./minute capacity are needed. Exhaust flow will be directed along Venice Beach to ensure warm winter air temperatures and enhance tourism.

I estimate that screen redraws will take about 6.31 minutes—enough time for the operator to enjoy a cold drink.

The 01-04 PC will cost about \$23 million, and it will be ready around 01 April 2013. I still need information on where I can obtain a 150 VDC @ 1.5 MegaWatt "wall wart," so any assistance is welcome. Wal-Mart can't help me out!

(Times sure have changed. Have a great April Fools Day!)

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TAMIAMI AMATEUR RADIO CLUB

Minutes of the Meeting

14 March 2012

President Fred Lathwood-KJ4TNI called the meeting to order at 7:05 PM and, following a flag salute, introductions were made all around. Jon Krijgsman from Shelton, CT was the only visitor.

MINUTES – Secretary Jack Sproat-W4JS requested a motion to accept the minutes of the 08 February meeting as published in the March issue of *The Communicator*. Conrad Owens-WA3RRS so moved, seconded by Dil Kay-W8DIL, and passed.

CORRESPONDENCE – The revised W4AC club license was received with Stew Haag-W4MO shown as trustee. The IRS Form 990-N e-Postcard was filed and accepted 07 March. As our income is well below \$50,000 we only have to file this form which updates our principal officer.

TREASURER'S REPORT – Treasurer Don Jansen-KI4VGE reported that the starting balance was \$2,570.69. Receipts were \$29.00 from the February meeting 50/50 and \$350 from dues, totaling \$379.00. Expenses were \$15.25 for Internet service. The ending balance is \$2,934.44. Bob Avrutik-N1RA moved for acceptance of the report, seconded by Roger Schmitt-KY4RS, and passed.

COMMITTEE REPORTS

SUNSHINE – Nothing reported.

VE TESTING – Regular VE session was held on 10 March with one candidate who passed the Technician exam.

REPEATER/TECHNICAL – The 146 and 444 MHz repeaters are operational in both analog and digital modes.

CLUB PROPERTY – Stew commented that the inventory was cleared and welcomed anyone to serve as the depository for any future acquisitions by the club.

PUBLICITY/MEMBERSHIP – San Yoder-K3SY reported that we have 55 dues paying members and eight Life Members. Vic Ouellette-K1CGI asked if the members who had not previously paid their dues been given a final notice. Jack-W4JS replied that e-mail had been sent to each of those members and that two of them did renew their dues prior to the 29 February deadline. San commented that both Venice newspapers had the notice of this meeting in their publications.

NET OPERATIONS – Fred-KJ4TNI reported that some 9 to 12 stations have been participating in the Tuesday night 440 Net gets a decent

turnout IF the members are notified in advance, and that we had nine stations on the net last night. The Thursday night 2-meter net typically has 3 to 6 stations checking in.

LIAISON TO QCWA – There were 37 members, spouses and friends present at the 07 March luncheon/meeting of Suncoast Chapter 53. Visitors Jim-W4PRO and Carol Wise-W7PRO both talked about their introduction to ham radio and Jim showed off replicas of his first one-tube transmitter and regenerative receiver. Visitors are welcome to our group the first Wednesday of the month at Denny's on Bee Ridge Road in Sarasota.

OLD BUSINESS – Fred announced that on Friday 09 March all those who had volunteered to serve as monitors along the route of the Sharks Tooth 10K Run participated in a field test of the digital 440 HTs furnished by Stew Haag-W4MO. The tests were successful.

We currently have three stations proposed to be on the air for the K4S operation.

Jack-KY1Z on 15 meters the afternoon of 14 and 15 April

Roger-KY4RS on PSK31

Jack-W4JS on 20, 17 and 10 meters

Jack-W4JS then asked if anyone else has a home station they can operate during the 13-15 April K4S time frame. Bob-N1RA offered to operate RTTY from his home station. Jack advised that Protocol, frequencies, log sheets, etc. will be given out at the 11 April TARC meeting.

NEW BUSINESS – Special Election. Fred advised the members that at the 02 March Officers/BoD meeting, the need for a director to replace Peter Pesa-N4RD was discussed in depth. A list of potential candidates was drawn up and they were contacted by e-mail. As a result, both San Yoder-K3SY and Bob Sullenberger-K1RCS offered to serve on the BoD. While our Bylaws call for a minimum of three (3) directors, there is no upper limit. Considering that sometimes during the summer it can be a problem getting a quorum of officers and directors together, the officers and directors are proposing that both San and Bob be elected as new directors.

Fred then called for any nominations from the floor. There were none and Charlie Covell-W4DB moved that the nominations be closed. Fred called for any discussion. Jack Gaddas-KY1Z moved that both San Yoder and Bob Sullenberger be elected as TARC directors. Hans Napfel-WB2ZZB seconded the motion. Fred called for a voice vote, which was unanimous.

See **MINUTES**, page 4

CURRENT/UPCOMING DX ACTIVITY & PROPAGATION HIGHLIGHTS

CURRENT and/or SCHEDULED DX ACTIVITY

COUNTRY – CALL SIGN	ACTIVITY PERIOD	BEAR-ING	HF BANDS and BEST OPENING TIMES (UTC)							
			80	40	30	20	17	15	12	10
Afghanistan – T6JP; ++ & Digital, 20 m	Now to 31 July	26	--	--	--	01-04	--	--	--	--
Afghanistan – T6JM; ++ & Digital, 20 m	Now to 13 June	26	--	--	--	01-04	--	--	--	--
Jan Mayen Is – JX9JKA; SSB + Digital	Now to 29 April	21	00-07	23-09	23-10	11-01	14-22	15-22	14-21	NO
Minami Torishima – JD1/JG8NQJ	Now to 16 April	308	08-12	06-13	06-13	02-19	20-04	21-01	21-01	21-02
Vietnam – XV2RZ; mostly Digital	Now to 16 April	348	NO	NO	NO	11-12	12-13	1300	NO	NO
Reunion Is – TO2R; ** spare time operation	Now to 14 April	91	--	23-04	23-04	19-	18-22	16-19	15-16	14-19
North Cook Is – E51M, international team op	Now to 10 April	255	04-12	02-14	02-14	12-06	16-03	17-03	17-00	17-23
Micronesia – V63AAZ, V63BAC	Now to 10 April	293	07-12	06-13	06-13	02-16	13-03	20-00	20-22	20-01
Dem Rep of Congo – 9Q6/ZS4U; all modes	Now to 08 April	88	--	22-06	--	17-03	--	13-01	--	16-20
Senegal – 6W/F8ATS; holiday style op	Now to 07 April	87	23-08	21-10	21-10	10-04	11-03	13-01	14-23	13-02
Guinea Bissau – J52HF; mainly RTTY & CW	Now to 06 April	90	23-08	21-10	20-09	10-04	11-03	13-01	14-23	15-21
Tonga – A35XG; ** some SSB & Digital	02 to 09 April	253	05-12	04-14	04-14	23-14	18-05	18-04	18-01	19-23
Morocco – CN2RN – SSB & CW	03 to 30 April	64	23-07	21-09	20-06	10-03	11-01	14-21	16-19	16-19
Swaziland – 3DA0FC; international team op	06 to 10 April	106	23-05	22-06	22-06	18-23	12-18	13-17	14-16	14-18
American Samoa – KH8/N9YU	07 to 09 April	256	05-12	03-14	03-14	12-05	18-04	18-02	18-23	19-21
South Cook Is – E51GMH, E51BKM	08 to 27 April	246	--	02-14	02-13	17-05	17-05	17-03	17-00	19-22
Samoa – 5W7A	09 to 11 April	257	05-12	03-13	03-13	12-05	18-02	18-00	18-22	19-00
Spratly Is – 9M0L ; Malaysian team op	10 to 24 April	337	NO	1100	NO	12-14	14-15	13-15	1500	NO
South Cook Is – E51EWP; German team op	11 to 14 April	246	04-12	02-14	02-13	17-05	17-03	18-00	19-22	19-22
Rotuma Is – 3D2R	13 to 20 April	263	05-12	04-14	04-14	12-06	18-04	19-01	19-22	19-04
Vietnam – XV4LC; SSB and CW	19 to 24 April	348	--	--	--	11-13	12-13	--	--	NO
Vanuatu – YJ0VK; team operation	21 Apr – 05 May	262	06-12	04-13	05-13	01-15	19-03	19-00	20-21	NO
Albania – ZA1OOI ++	22 to 29 April	48	--	22-07	--	10-01	13-23	16-20	15-20	NO
Ogasawara – JD1BMH, BLC, BLY, etc.	22 Apr – 05 May	317	09-11	08-12	08-12	03-15	20-02	21-04	21-05	NO
Lichtenstein – HB0/DL2SBY; all modes	25 Apr – 05 May	46	00-05	21-08	22-07	11-01	13-22	16-20	16-20	NO
Mariana Is – KH0/W2GJ; all modes	29 Apr – 03 May	306	08-11	07-12	07-12	03-16	13-20	21-03	14-16	NO
Micronesia – V63AZ; all modes	30 Apr – 04 May	293	07-12	06-13	06-13	02-16	13-03	14-01	20-00	20-02
Palau – T88RF; mostly Digital	30 Apr – 04 May	307	09-11	08-12	08-12	05-16	01-15	21-01	13-16	01-03

Updated 29 March based on 28 March QRZ DX, 26 March *The Weekly DX* and <http://www.ng3k.com>

Notes: Time in bold = 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.gsl.net/w6elprop/>. Solar Flux and K-index varied by date in accordance with USAF 45-Day A/P Forecast.

-- MARCH SOLAR ACTIVITY --

The Solar Flux ranged from 99 to 149, with a mean value of 115.1 (vs. 155.0 for March 2011 and 83.4 for March 2010), and the A-index was ≥ 7 on 22 days (*one stormy month!!*). Through 30 March the sunspot number ranged from 24 to 109, with a mean of 77.4. Sunspot Regions 1423 to 1448 were active, with three X-class, 19 M-class and 103 C-class flares. Solar flare activity drove the Ap Index up to 207 on 09 March, to 111 on 12 and 15 March and up to 94 on 07 March. Solar storms and radio blackouts occurred, particularly on the polar paths.

-- APRIL FORECAST --

Solar activity is expected to be at low to moderate levels during April. M-class flare probabilities are expected to increase 01 to 11 April as old Region 1429 moves across the solar disk. Low levels should prevail from 12 – 30 April.

There's a slight chance of proton events 01 – 11 April due to the return of Region 1429.

The greater than 2 MeV electron flux is expected to be at moderate to high levels 01 – 03 April, returning to normal to moderate levels 04 – 13 April. Moderate to high levels are expected

14 – 18 April, with normal levels during the remainder of the month. The Solar Flux should average 116.2 during April.

The geomagnetic field should be quiet with the exception of quiet to active levels 13 – 14 April due to recurrent coronal hole high speed streams.

(From NOAA Weekly Highlights and Forecasts, 26 March 2012, NOAA 27-day Space Weather Outlook Table, 26 March 2012, and 45 Day AP Forecast, USAF, 28 March 2012)

-- RANDOM DX COMMENTS --

As the Sun moves further into the northern hemisphere, certain DX paths will be open both morning and evening. This includes paths into the South Pacific and polar paths into SE Asia.

There has been some 6-meter F2 propagation from North America to New Caledonia, which is a hopeful sign that Es propagation will be better this year than the previous two years. Es propagation ramps up in May and runs through July. So give some thought to 6-meter DXing.

How many are active in the Diamond DXCC event? It's a challenge, both in determining which stations count and then working them.

MAJOR CONTESTS DURING APRIL

Contest/Special Event	Begin-End Times/Dates	Bands/Modes	QSO With	Exchange
SP (Polish) DX Contest	1500Z 07 Apr 1500Z 08 Apr	160 – 10 Meters SSB and CW	Polish Stations	RS(T), Serial
EA (Spanish) RTTY Contest	1600Z 07 Apr 1600Z 08 Apr	80 – 10 Meters RTTY Only	Anyone, Anywhere	RST, Serial
Japan International DX Contest	0700Z 14 Apr 1300Z 15 Apr	160 – 10 Meters CW Only	Japanese Stations	RST, CQ Zone (5, locally)
Yuri Gagarin DX Contest	2100Z 14 Apr 2100Z 15 Apr	160 – 10 Meters CW Only	Anyone, Anywhere	RST, ITU Zone (8, locally)
TARA Skirmish Digital Prefix Contest	0000Z 21 Apr 2400Z 21 Apr	160 – 6 Meters All Digital Modes	Anyone, Anywhere	Name, Prefix
Worked All Provinces of China (Test Game)	0000Z 21 Apr 2359Z 21 Apr	80 – 10 Meters SSB and CW	Chinese Stations	RS(T), Serial
CQMM Contest	1200Z 21 Apr 2359Z 21 Apr	80 – 10 Meters CW Only	Anyone, Anywhere, see www.cqmmcx.com	RST, Continent, Category
YU (Serbian) DX Contest	2100Z 21 Apr 1700Z 22 Apr	160 – 10 Meters CW Only	Anyone, Anywhere	RST, ITU Zone (8, locally)
Ten-Ten Spring Digital Contest	0001Z 28 Apr 2359Z 29 Apr	10 Meters Only Digital Only	Members of Ten-Ten International	Call, Name, County, S/P/C
SP (Polish) DX RTTY Contest	1200Z 28 Apr 1200Z 29 Apr	80 – 10 Meters RTTY Only	Anyone, Anywhere	RST, Serial
Helvetia Contest	1300Z 28 Apr 1259Z 29 Apr	160 – 10 Meters SSB, CW, Digital	Swiss Stations	RS(T), Serial
Florida QSO Party	1600Z 26 Apr See Website	40 – 10 Meters SSB and CW	Anyone, Anywhere, see www.floridagso.org	RS(T), Florida County
BARTG 75 Sprint	1700Z 29 Apr 2100Z 29 Apr	80 – 10 Meters 75 Baud RTTY	Anyone, Anywhere	Serial

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/>

MINUTES from page 2

COMMENTS FROM THE FLOOR – None.

ADJOURNMENT – A motion to adjourn at 7:21 PM was made by Vic Ouellette-K1CGI, seconded by Ron Hogarth-K4AUX, and passed. There were 21 members and one visitor present.

PROGRAM – The official video of the 01-24 October 2011 DXpedition that put T32C on the air from Kiritimati (Christmas) Island was shown.

Jack Sproat-W4JS
Secretary

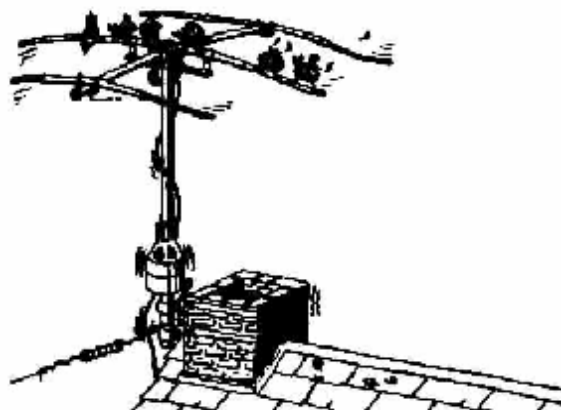
-- HAM RADIO INFO SITE --

Do you want some basic information on a variety of amateur radio topics? Take a look at <http://www.dxzone.com/>. General, major topics include such items as Antennas, Manufacturers, Radio Equipment, Operating Aids, Operating Modes, etc. Within each of these topics are dozens of specific items to click on for information. This is a web site worthy of the attention of all hams--newly minted or Old Timers.

Questions provide the key to unlocking our unlimited potential. – Chinese Fortune Cookie

-- UNDERSTANDING ANTENNAS --

"Understanding Antennas For The Non-Technical Ham by Jim Abercombie-N4JA is a 74-page reference manual that's available at <http://www.hamuniverse.com/basicantennas.pdf>. This reference covers such topics as Antenna Systems, Propagation, All Band Dipoles, Verticals, Loop Antennas, and antenna installations.



-- THE RADIO AMATEUR'S' CODE --

The original Radio Amateur's Code was written by Paul M. Segal-W9EEA in 1928. It reflects a time when both people and amateur radio were different. First, here's the Code as originally published:

ONE: The Amateur is considerate...He never knowingly uses the air in such a way as to lessen the pleasure of others.

TWO: The Amateur is Loyal...He offers his loyalty, encouragement and support to his fellow radio amateurs, his local club and to the American Radio Relay League, through which amateur radio is represented.

THREE: The Amateur is Progressive...He keeps his station abreast of science. It is well built and efficient. His operating practice is above reproach.

FOUR: The Amateur is Friendly...Slow and patient sending when requested, friendly advice and counsel to the beginner, kindly assistance, cooperation and consideration for the interests of others; these are the marks of the amateur spirit.

FIVE: The Amateur is Balanced...Radio is his hobby. He never allows it to interfere with any of the duties he owes to his home, his job, his school, or his community.

SIX: The Amateur is Patriotic...His knowledge and his station are always ready for the service of his country and his community.

Several years ago, L. David Shallenberger-K6VHP prepared a satirical updated version of the Code, based on what he—and many of us—observes in contemporary Amateur Radio. He advises the reader, in advance, not to laugh or get angry.

THE RADIO AMATEUR'S CODE--2000

ONE: The Amateur is Gentlemanly...Never knowingly "keys up" in such a way as to impose on the pleasure of others...this part of the code does not apply to operations on 75, 40 or 20-meter phone bands.

TWO: The Amateur is Loyal...To Kenwood, until he buys an Icom; to Icom, until he buys a Yaesu, and so on. Goes to all club activities where they serve free food -- has no appreciation for Hiram Percy Maxim's contributions to amateur radio.

THREE: The Amateur is Progressive...Sets up his station just like the picture in the ad in the magazine. Has absolutely no idea how it's built, nor can he calculate how efficient it is. Has the telephone number for Factory Service Center

taped to the front panel. Knows how to pronounce some technical words. Cannot, however, recite their true meaning.

FOUR: The Amateur is Friendly...Promotes operating practices he discovered while driving a dump truck and modulating on Channel 19. Provides counsel and advice to his fellow operators based upon whatever he overheard from others modulating on Channel 19. Prefers to concoct colorful metaphors for use in the place of socially accepted words when speaking into a microphone. Ends all spoken statements with the words "okay?" or "you know."

FIVE: The Amateur is Balanced...His wife and kids need shoes; his rent is past due; often arrives late to work, due to QSOing while mobile; and, probably has not registered to vote. But, he's got a \$2,800.00 HF SSB transceiver in his ham shack, a "dual band" FM rig in his 4X4 pickup truck, and a 2-meter HT on his belt. Spends several hours each day playing at ham radio.

SIX: The Amateur is Patriotic...Has no respect for authority (FCC) nor the traditions and disciplines that formed the foundation upon which amateur radio was built.

K6VHP commented that "This doesn't apply to all of us, but hey, most of it sounds familiar, eh?" Unfortunately, he's pretty much in the black on that target.

(From <http://www.eham.net/articles/7988>)

-- HAM RADIO ICON PASSES --

CQ columnist Fred Maia, W5YI, a leading amateur radio journalist, educator and pioneer of volunteer examining, passed away on 28 March after a battle with cancer.

Maia, 76, published "*The W5YI Report*," dubbed "America's Oldest Ham Radio Newsletter," from 1978 to 2003, and was a CQ contributing editor since 1985. His regulatory affairs column, first titled "Ticket Talk," then "Washington Readout," offered news and perspective on FCC and ITU (International Telecommunication Union) actions, and helped untold numbers of hams wend their way through often-confusing mazes of the volunteer examining and vanity call sign systems.

Maia was the first Volunteer Examiner Coordinator appointed by the Federal Communications Commission in 1984, and his W5YI-VEC group grew into the nation's second-largest VEC after the ARRL.

From <http://forums.qrz.com/showthread.php?340155-CQ-columnist-Fred-Maia-W5YI-SK>)

April 2012

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

NOTE: If the W4AC Repeater is inoperative, nets scheduled for activity on the repeater will be held on the simplex frequency of 146.580 MHz. 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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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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Secretary: Jack Sproat-W4JS

Treasurer: Don Jansen-KI4VGE

Directors: Bob Avrutik-N1RA

Rich Greenberg-N6LRT

Conrad Owens-WA3RRS

Bob Sullenberger-K1RCS

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