



# ARASWF

## Newsletter



Vol. MMXI No. 6 - The Journal of the Amateur Radio Association of Southwest Florida  
June 15, 2013

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**The next Club Meeting will be held September 24<sup>th</sup> 2013 at 7:00pm  
at the Red Cross - 2610 Northbrooke Plaza Drive Naples, FL**

## Nickels & Dimes

June marks the midpoint of yet another year, and where does the time go? While you contemplate that, don't let another month go by without doing something for your club.

This month, we have Field Day, which is one of our biggest projects this year for the Club. Also in early July, we will be supporting the Lighthouse of Collier Summer Camp Program for sight impaired children. Both of these projects are great opportunities to give something back to your Club and the community.

Let me start with Field Day which will be held June 22-23<sup>th</sup> at the Red Cross. Club members recently changed the project venue after a majority vote. Therefore, we expect more participation this year... it's that simple!

Fortunately, the venue change is a decision that can be validated objectively in the log count. While the score may be confounded by one of many noise factors: sun spots, solar flux, and local weather and so on, at least your attendance can be counted and will add value to outcome. Enough said; it's not too complicated -- We need you there to make a difference!

Dave Weigel – KJ4ZEJ Director of the Lighthouse of Collier Summer Camp, has been teaching sight impaired children Morse code for the past three years. This year he approached the Board with a request for a few members to help him teach code and setup a radio station to demonstrate the basic communication concepts to the kids.

The Board was very enthusiastic about this opportunity and agreed to help support this project with manpower and additional code oscillators and keys. This project embraces our basic primary purpose as a service club, which is to promote amateur radio in the community.

The Summer Camp program commences July 11<sup>th</sup> and we are looking for volunteers to help on the three consecutive Thursdays. While the exact times and schedules are still being set, the dates are firm. You can even help from home by making a few contacts with the kids on either SSB or CW. Please let me know if you are available and interested in helping.

Well as you can see this is a busy month for our club, please consider it your invitation to join us this month and promote our club's agenda. In the Nike vernacular, ***Just Do It!***

Ken-W9KB  
ARASWF Secretary/Treasurer

Monthly Bonus Links: <http://lighthouseofcollier.org/>

# Amateur Radio Association of Southwest Florida

Regular Membership Meeting held at the Naples American Red Cross.  
Tuesday, May 28<sup>th</sup>, 2013

Officers and  
Directors Present: Uli Altvater, AGØX – President  
Ken Bills, W9KB – Secretary/Treasurer  
George Tomlinson, AA4GT – Director

Absent: Bill Krauss, N1MMQ – Past President  
Eric Gissendaner, KF4IXA – Vice President  
Henrietta Horvay, KA1JVN – Director  
Gary Lee, K8YMN – Director  
Frank Halas, W4RBW – Director

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## MEETING MINUTES

**Meeting Called To Order:** The President called the meeting to order at 7:04 pm with the Pledge of Allegiance. Eighteen members were in attendance.

**Introductions:** All attendees introduced themselves by name and call sign.

**President's Opening Remarks:** Uli-AGØX welcomed all the members and guests in attendance and thanked them for their continuing support and their club participation.

**Reading & Approval of Previous Minutes:** The meeting minutes were accepted dispensed with since they were published in the May 2013 ARASWF Newsletter.

**Treasurer's Report:** Ken-W9KB reported that as of May 28<sup>th</sup> the club's bank balance was \$4,856.56. Expenses included \$71.30 for trailer tags, \$81 equipment insurance, and a \$100 donation to Avow Hospice in memory of Bob – WB2TGY (SK). \$120 from Field Day Raffle sales were deposited this month resulting in a current balance of \$4,724.26

**Officers' Reports:** W9KB reported that that at the previous VE session, two candidates successfully passed their exams. Robert Stekeur – KK4RCR passed his General's examination and Benjamin Powell (now ???) passed his Technician's exam VE exams will commerce again in September.

**Old Business:** Uli-AGØX reported that the WB2QLP Echolink connection currently requires a VPN bridge connection back to his QTH. This will be eventually moved to his business location as a more permanent and robust solution.

The Macro Island K5MI (146.985 MHz) repeater has been converted with the addition of DVRPT external controller board. Reinstallation will be scheduled next week.

W9KB reported that Filed Day Raffle tickets sales are moving well. About 12 tickets remain available for sale.

The Florida QSO Party was successful with 863 contacts logged over the 20 hour contest held April 27-28. Dan Street (K1TO) President of the Florida Contest Group speculated that our club might again place first in the Club category. Stay tuned for final results.

W9KB reported that we have a signed MOU with Collier County to provide assistance in the emergency shelters when requested. Those summer residents wishing to help at the shelters need to take the following NIMS classes: ICS 100, 200, and 700.

**New Business:** W9KB reported that David Weigel – KD4JEZ representing the Lighthouse of Collier Project presented an opportunity for the club at the last Board, meeting involving this year's Lighthouse Summer Camp program for sight impaired children. It will be held at the Naples Beach Club Hotel. David has been teaching Morse code to children for the past two years as one of their Summer Camp activities. This year he would like to add a radio *experience* for the children as part of this program. He is looking for a small group of members to help teach Morse code and setup up a radio station for the children to operate.

The Lighthouse Summer Camp starts July 8<sup>th</sup> and runs for four weeks. David would like club involvement for three consecutive Thursday's beginning July 11<sup>th</sup> (exact times TBD). The Board agreed this would be a good fit to fulfill our community outreach initiative. The Board adopted this project and budgeted \$250 for code oscillators & keys to better equip their classroom. <http://lighthouseofcollier.org/events.htm>

The 2013 Field Day project was next addressed. Results of an earlier email interest survey were discussed. A majority of respondents indicated that they would be out of town for FD weekend and only a few members indicated they would be available to setup and operate an outdoor station like we had last year.

The Board recommended two options: 1.) a Red Cross Florida QSO Party style operation or 2.) a Limited Saturday only operation at Veteran's Park. A show of hands was requested for support of either option. The Red Cross option prevailed, plans along those lines will be made pending upon availability of the facility.

**Presentation:** Ken – W9KB gave a presentation on 2012 Field Day featuring the recording setting W3AO (Pontiac Valley Radio Club) monster effort with 27 radios and 11,116 Q's with 80 participants.

<http://www.arrl.org/files/file/ContestResults/2012/2012-FD-QST.pdf>

**50/50 Raffle:** George – WA2SQO won the raffle (\$31 total) this month, donating his half to the club. Thank you, George!

**Adjournment:** George-AA4GT moved to adjourn at 8:25pm, it was seconded and carried.

Respectfully Submitted,  
Ken Bills – W9KB  
Secretary

## Amateur Radio Association of Southwest Florida

### **Executive Board Meeting held at Trimax Wireless, Naples, Florida, on Friday, May 24, 2013.**

**Present:** Uli Altvater, AG0X – President  
Ken Bills, W9KB – Secretary/Treasurer  
George Tomlinson, AA4GT – Director  
Frank Halas, W4RBW – Director

**Absent:** Bill Krauss, N1MMQ – Past President  
Eric Gissendaner, KF4IXA – Vice President  
Gary Lee, K8YMN – Director  
Henrietta Horvay, KA1JVN – Director

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### **MEETING MINUTES**

**Meeting called to order:** The meeting was called to order at 1:34 pm.

**President's Report** – Uli-AG0X dispensed with a formal report and welcomed everyone this afternoon.

**Guest Presentation:** David Weigel – KD4JEZ representing the Lighthouse of Collier Project presented an opportunity for the club, involving this year's Lighthouse Summer Camp program for sight impaired children. It will be held at the Naples Beach Club Hotel. David has been teaching Morse code to children for the past two years as one of their Summer Camp activities. This year he would like to add a radio *experience* for the children as part of this program. He is looking for a small group of members to help teach Morse code and setup up a radio station for the children to operate.

The Lighthouse Summer Camp starts July 8<sup>th</sup> and runs for four weeks. David would like club involvement for three consecutive Thursday's beginning July 11<sup>th</sup> (exact times TBD). The Board agreed this would be a good fit to fulfill our community outreach initiative. The Board adopted this project and budgeted \$250 for code oscillators & keys to better facilitate the classroom equipment. <http://lighthouseofcollier.org/events.htm>

**Treasurer's Report** – Ken-W9KB provided a current treasurer's report commencing May 1<sup>st</sup> with a bank balance of \$4,856.56. Expenses incurred this month included: \$71.30 for license renewals of (2) antenna trailers and \$81 for our club equipment insurance. Field Day Raffle ticket sales were \$120. The present checking account balance as of May 24<sup>th</sup> is \$4824.56.

**Old Business:** Uli – AG0X reported that the Macro Island Radio Club K5MI (146.985 mHZ ) repeater has been converted to D-Star and will be reinstalled within the next few weeks depending upon schedules.

Ken-W9KB reported the club made 863 QSO's during Florida QSO Party held at the Red Cross on April 27 & 28<sup>th</sup>. According to Dan Street – K1TO Florida Contest Group President, this Q count bettered last year's effort and might insure another 1<sup>st</sup> Club entry. Stayed tuned for final results!

**New Business:** The 2013 Field Day event was discussed at length, evaluating both the level of club commitment and response to recent email surveys. A majority of respondents will be out of town June 22 & 23<sup>th</sup> and only a few members are available to setup and man an outdoor station like we had last year. Therefore, the Board recommends a smaller operation more like the recent Florida QSO Party setup. If the Red Cross is not available Field day weekend, a Saturday afternoon only (no overnight & Sunday morning) effort might be more in scale will available club resources.

These two Field Day options will be presented to the membership at the next meeting.

Bob – W2HI has expressed his desire retire and the end of the year as the ARASWF Webmaster. Bob has done a tremendous job over the past several years and spent countless hours preserving our club history on our extensive website. This will not be an easy position to fill and we will begin the search to find a capable replacement.

The Board would like to recognize Bob – W2HI for all his time and effort invested in website development; a truly super endeavor on your behalf. THANK YOU, BOB!

The agenda for the next GM membership meeting was set for 7:00 May 28<sup>th</sup>.

The next VE testing date was set for 5:30pm May 28<sup>th</sup>.

**Specific assignments** that were taken out of the meeting:

- AG0X – Follow-up with search for new Webmaster
- W9KB – Check Red Cross availability for Field Day, cancel Veteran's Park if necessary

**Next Board Meeting** – Trimax Wireless, Monday June 10<sup>th</sup> @ 1:30 pm

**Adjournment:** George – AA4GT moved to adjourn the meeting, Frank-W4RBW seconded the motion. The meeting was adjourned at 2:35 pm.

Respectfully submitted,  
Ken Bills, W9KB  
Secretary

# Contest Calendar

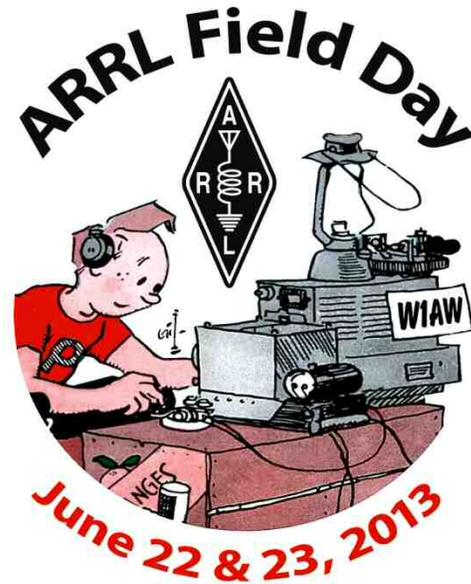
## June 2013

All Asian DX Contest, CW	0000Z, Jun 15 to 2400Z, Jun 16
+ SARL Youth Day Sprint	0700Z-1100Z, Jun 16
Run for the Bacon QRP Contest	0100Z-0300Z, Jun 17
+ His Maj. King of Spain Contest, SSB	1200Z, Jun 22 to 1200Z, Jun 23
Ukrainian DX DIGI Contest	1200Z, Jun 22 to 1200Z, Jun 23
+ Marconi Memorial HF Contest	1400Z, Jun 22 to 1400Z, Jun 23
ARRL Field Day	1800Z, Jun 22 to 2100Z, Jun 23
+ SKCC Sprint	0000Z-0200Z, Jun 26
CWops Mini-CWT Test	1300Z, Jun 26 to 0400Z, Jun 27

## July 2013

RAC Canada Day Contest	0000Z-2359Z, Jul 1
+ MI QRP July 4th CW Sprint	2300Z, Jul 4 to 0300Z, Jul 5
Venezuelan Ind. Day Contest	0000Z, Jul 6 to 2359Z, Jul 7
+ DL-DX RTTY Contest	1100Z, Jul 6 to 1059Z, Jul 7
DARC 10-Meter Digital Contest	1100Z-1700Z, Jul 7
+ CWops Mini-CWT Test	1300Z, Jul 10 to 0400Z, Jul 11
FISTS Summer Sprint	0000Z-0400Z, Jul 13
+ IARU HF World Championship	1200Z, Jul 13 to 1200Z, Jul 14
SKCC Weekend Sprintathon	1200Z, Jul 13 to 2359Z, Jul 14
+ DMC RTTY Contest	1200Z, Jul 20 to 1200Z, Jul 21
North American QSO Party, RTTY	1800Z, Jul 20 to 0600Z, Jul 21
+ CQ Worldwide VHF Contest	1800Z, Jul 20 to 2100Z, Jul 21
Run for the Bacon QRP Contest	0100Z-0300Z, Jul 22
+ SKCC Sprint	0000Z-0200Z, Jul 24
CWops Mini-CWT Test	1300Z, Jul 24 to 0400Z, Jul 25
+ RSGB IOTA Contest	1200Z, Jul 27 to 1200Z, Jul 28

## **FIELD DAY 2013 - JUNE 22 & 23**



*Field Day 2013  
is coming!*

*Field Day: To  
work as many  
stations as  
possible on  
any and all  
amateur bands  
(excluding the  
60, 30, 17 and  
12-meter  
bands) and to  
learn to  
operate in  
abnormal  
situations in*

*less than optimal conditions.*

Field day 2013 is right around the corner, always the fourth full weekend of June, beginning at 1800 UTC Saturday and running through 1800 UTC Sunday, June 22-23, 2013. This year's location will be at the Red Cross building at 2610 Northbrooke Plaza Drive in North Naples, the same location where our monthly membership meetings are held.

It is not too early to plan for your participation in the Field Day activities. Club members are needed to help set-up on Saturday, beginning at about 0800, and break-down on Sunday at about 1400. Field Day operations will begin on Saturday at 1400, and end 24 hours later, at 1400 on Sunday. Operators are needed both days and Saturday night for all the bands, SSB and CW. Last year, only 21 club members participated or visited the site to lend moral support - let's do better in 2013.

# ARASWF Field Day Raffle – June 23<sup>th</sup>



HM189GPS Microphone not included

Tickets are \$10 each *ONLY 5 TICKETS AVAILABLE...* this is a limited raffle (100 tickets total)

## **Last Chance!**

Raffle will be held at our 2013 Field Day Site at the Red Cross

**1<sup>st</sup> Prize - ICOM IC-80AD HT (D-Star Ready) or \$400**

**2<sup>nd</sup> Prize - \$100**

**3<sup>rd</sup> Prize - \$25**

Winners need not be present.

Contact [w9kb@comcast.net](mailto:w9kb@comcast.net) for tickets

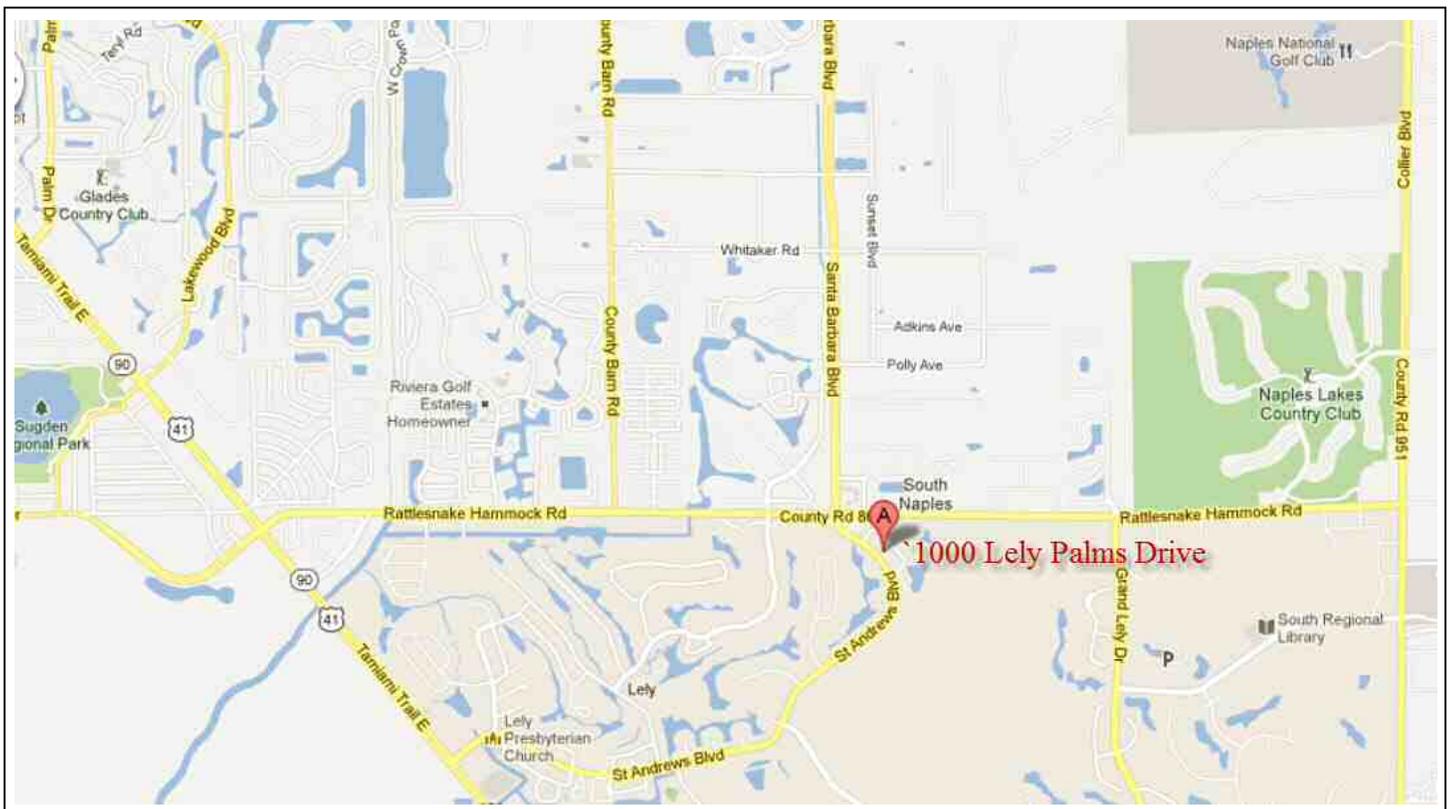


**Lely Palms Chapter 152 meets every second Thursday of the month**

at the Lely Palms Manor, Next Luncheon Meeting: July 11<sup>th</sup> 12:30pm

1000 Lely Palms Blvd.

Naples, FL 34114



## New Upgrade & Licensees

Congratulations!

Robert Stekeur – KK4RCR (G)

Benjamin Powell – KK4RRK (T)

Collin's Fans - Check this link out: <http://www.youtube.com/watch?v=2HSi135gR7k>



## Did You Know? Someone Else Wrote Maxwell's Equations

The truth behind those well-known formulas

By MICHAEL GESELOWITZ 20 May 2013



Photo: SSPL/Getty Images

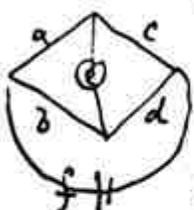
*Another in a series of "Did You Know?" articles that uncover interesting historical, technical, and IEEE-related factoids.*

One often hears the cliché "a musician's musician," or "a poet's poet." Well, if there was an engineer's engineer, it was probably Oliver Heaviside [above].

When Michael Pupin invented the loading coil to improve telephone transmission in 1899, it was based explicitly on the work of Heaviside more than a decade earlier. Guglielmo Marconi transmitted and received a radio signal beyond the horizon in 1901, and Heaviside explained a year later how it was possible. And, most importantly, James Clerk Maxwell established the laws of electromagnetism, but Heaviside rewrote them so they could be better understood and applied.

Heaviside, the nephew of the electrical pioneer Charles Wheatstone, was born in London in 1850. Tutored at home and mostly self-taught in his home laboratory, he took a job in 1868 as a telegraph operator—which gave him experience with the emerging electrical science and engineering fields in which his uncle was a leading light. Within six years, Heaviside had enough experience to return to his laboratory, and he began a remarkable career in electrical engineering, despite never holding a professional position.

Oliver Heaviside Phil May. Feb 73  
 Great Northern telegraph company Newcanthori Type  
 on Best arrangement of Wheatstone Bridge



$d$  resistance to be measured (given)  
 $f$  battery resistance (given)  
 $e$  galvanometer resistance (given)

then for best arrangement

$$a = \sqrt{ef}$$

$$b = \sqrt{de \frac{d+f}{d+e}}$$

$$c = \sqrt{df \frac{d+e}{d+f}}$$

tested J.C.M.

*Oliver Heaviside worked with his uncle, Charles Wheatstone, who popularized the Wheatstone bridge (shown above).*

Photo: IEEE History Center

His first work that drew the public's attention was the formulation of the telegrapher's equations, which define the behavior of an electrical transmission line. That work led him in 1880 to invent and patent coaxial cable, which is still used today. He next made a splash developing operational calculus, the technique whereby one solves differential equations—a frequent need in engineering—by transforming them into polynomial equations that can be solved algebraically. The mathematicians of the time were suspicious of the rigor of his methods, but he was able to use his mathematical techniques to make his greatest contribution yet.

Every electrical engineer is aware of Maxwell's equations: four mathematical expressions that in elegant form explain the full behavior of electromagnetism—and grace many an engineering school sweatshirt. However, many are not aware that between 1860 and 1861, Maxwell actually developed a set of 20 equations to explain electromagnetic radiation, and they included terms for both fields and potentials.

Heaviside, along with a few contemporaries, was a firm believer in Maxwell's approach to understanding electromagnetism, but their complexity made the equations difficult to apply. So, using a new notation, Heaviside simplified Maxwell's original equations to the four, using only terms for fields that we employ to this day. At first those equations were referred to by various combinations of the names of Maxwell, Heaviside, and Heinrich Hertz, who was the first to demonstrate Maxwell's waves. However, for all his otherwise brilliance, Albert Einstein referred to them as Maxwell's equations in his 1940 monograph "Considerations Concerning the Fundamentals of Theoretical Physics." The name stuck, and Heaviside faded from public view. (Hertz at least had a unit named after him.)

Nevertheless, Heaviside was recognized in his own lifetime. As a result of his work on Maxwell's equations and his other contributions, in 1891 he was made a Fellow of the U.K.'s Royal Society, unusual for an "amateur" engineer at the end of the 19th century. And in 1922, the Institute of Electrical Engineers in the U.K. (today known as the Institution of Engineering and Technology) awarded him its first Faraday Medal, which recognizes achievements in engineering, science, and technology. His name is also given to a layer of ionized gases in the atmosphere.

Heaviside died in 1925 in Devon, England, in genteel poverty, having received little profit or broader name recognition from his vast contributions to technology and to society.

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## Club Information

Next Meeting Time: September 24<sup>th</sup> @ 7:00PM

Meeting Location:  
American Red Cross  
2610 Northbrooke Plaza Drive  
Naples, FL

Club Repeaters:

- ARASWF FM - WB2QLP 146.670 mHz (-600 kHz) PL 136.5 Hz
- ARASWF D-Star AA4PP 145.490 mHz (-600 kHz)/441.5 mHz (5.0kHz)
- Collier EOC WB2WPA 147.030 mHz (+600 kHz)

Club Officers:

President: Uli Altvater – [AG0X@araswf.org](mailto:AG0X@araswf.org)  
Vice President: Eric Gissendaner – [KF4IXA@araswf.org](mailto:KF4IXA@araswf.org)  
Secretary/Treasurer: Ken Bills – [W9KB@araswf.org](mailto:W9KB@araswf.org)  
Director: George Tomlinson – [AA4GT@araswf.org](mailto:AA4GT@araswf.org)  
Director: Gary Lee – [K8YMN@araswf.org](mailto:K8YMN@araswf.org)  
Director: Henrietta Horvay – [KA1JVN@araswf.org](mailto:KA1JVN@araswf.org)  
Director: Frank Halas – [W4RBW@araswf.org](mailto:W4RBW@araswf.org)  
Past President: Bill Krauss – [N1MMQ@araswf.org](mailto:N1MMQ@araswf.org)  
Newsletter Editor: Ken Bills – [W9KB@araswf.org](mailto:W9KB@araswf.org)  
Webmaster: Bob Graf – [W2HI@araswf.org](mailto:W2HI@araswf.org)

Club Website:

<http://www.araswf.org>

Visit  
the



**Amateur Radio Association  
of Southwest Florida, Inc.**

**Web Site**

**www.araswf.org**