

STARS LIFE MEMBERSHIP AWARDED TO: EDWARD TAUBLIEB, KB2KVA

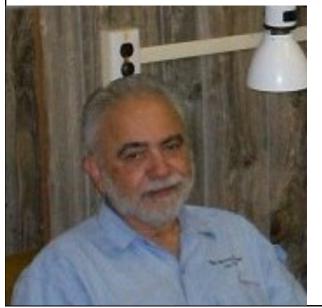
At the March meeting of the **STARS** Board of Directors, the motion was made and carried to award Life Membership to **Edward Taublieb**, **KB2KVA**. The general membership approved the motion at the April meeting.

Some members may recall Ed from his regular attendance at the annual Field Day, as he operated to improve the **STARS** team score. Or, perhaps, you may remember the guitar music that permeated those Field Day gatherings (that was from Ed).

Aside from amateur radio, you may have interacted with him at <u>The String Shoppe</u>, a quality instrument locale at 524 Ontario Street in the Riverside section of Buffalo.

Newer members may recall a field trip to his home on Lake Ontario, for the purpose of installing amateur antenna equipment.

Not as well known by newer club members, is the fact that Ed is an attorney. As such, he has been responsible for the agreement between **STARS** and the Town of Hamburg for the "Nike Base Clubhouse". Through those legal skills, Ed has contributed greatly to the success of **STARS**. Life membership is a small token of our appreciation.



Certificate of Life Membergh bouth Towns Amateur Rabio Society This certifies that EDWARD TAUBLIEB, KB2KVA, by providing exemplary service, dedication and guidance to STARS, is hereby conferred E MEMBERSHIP, with all rights and privileges of membership, the Board of Directors

CLUB OFFICERS

President	Ken Pokigo, KC2AYK
Vice President	Conrad Barrick, KC2WRY
Secretary	Scott Barto, KB2KOL
Financial Sec'y	Patrick Groom, KC2VWG
Treasurer	John Leitten, KA2RFT
Director (1 yr.)	Paul Blachowski, WA2DII
Director (2 yr.)	Jon Hall, KC2QKB
Clubhouse Chair	Patrick Groom, KC2VWG
Telstar Editor	Tomm Dean, KA2NXY
Webmaster	Don Niles, K2PMC

BLUE AND UNDERLINED

When you see something in *Telstar* in blue letters and underlined, that means it is an Internet link. Hold the "Control" key and click on the link to open.

Try it!

sample link (control + click)

SENSIBLE DONATIONS

Recently, the **STARS** Clubhouse has been the landing zone for many electronic items. Unfortunately, some of those items do not work, and are beyond repair. This has strained the storage ability of the Clubhouse, as well as the attention of **STARS** engineers.

Effective immediately, all potential donations of such

equipment should be cleared with the Clubhouse Chairman, **Pat Groom, KC2VWG**. Contact him at:

<u>pgroom@verizon.net</u> .



WE GOOFED

It was brought to our attention that the **April 1st** edition of Telstar had an error. To correct the record, <u>renewing amateurs will NOT</u> be required to re-<u>test</u>. The only <u>amateurs</u> required to retest are those whose licenses have expired for more than 2 years.

The reporter responsible for getting this article wrong has been reprimanded, and suspended for an 11 month period.

If ewe sea sum thing wee did knot get rite, lettuce no at the a dress bee low.

wb2elw@verizon.net



CLUB NETS

Tuesdays	7:30 PM	147.09 MHz (repeater)
Saturdays	10:00 AM	3.925 MHz +/- QRM

Buffalo Mini Maker Faire

Saturday, May 7, 2016

10am to 4pm

Buffalo Museum of Science 1020 Humboldt Parkway Buffalo, NY 14211 716.896.5200 Sciencebuff.org @buffalomakers #buffalomakers buffalominimakerfaire

HAM RADIO CLASS

Get your HAM Radio License

Topics Include:

- Radio Waves & Signals
- Electrical Laws, Power, &
- the Metric SystemElectronic Components & Radio Circuits
- Propagation, Antennas & Feed Lines
- Basic Amateur Radio Station Equipment
- Power Sources & Interference
- Communicating With
 Other HAMs
- Voice, Code, Text, Video & Digital Modes
- Call Signs, License Regulations & Privileges
- Safety & Amateur Radio
- Test Preparation
- Final Class Test for Technicial & General Licenses

Wednesday Nights Starting May 4th

6 to 7 Consecutive Weeks Test date to be announced

Class is FREE, but

ARRL Course Book - \$25.00 Payment for Book is due on 1st day of class

ARRL VE Test Fee - \$15.00 Payment for Test is due on test day The test will be offered for all classes of licensee including Technician General and Extra

West Seneca Emergency Operations Center 900 Mill Street West Seneca, NY 14224

Register online at www.wscert.net www.EMPactNewYork.org



HELP WITH THE MINI-MAKER FAIRE

STARS has agreed to staff a table at the **Mini-Maker Faire**, scheduled for Saturday, May 7th, from 10 AM to 4 PM, at the Buffalo Museum of Science.

The **STARS** display will include displays, literature, operating radios and demonstrations of how amateur radio is in use today. The objective will be to encourage interest in joining the amateur radio community.

If you can provide some of your time to staff this event, contact **Bob Koster**, **KA2WYE**, at 649-7272, or at <u>ka2wye@arrl.net</u>. Early volunteers will be placed on a "free admission" list.

AMATEUR RADIO CLASS

West Seneca CERT, EMPact America, and STARS will conduct a training course for new amateur radio operators.

The class will run for 5 weeks, beginning Wednesday, May 4th, from 6:30 to 9:30 PM. It will be held at the West Seneca Emergency Operations Center at the West Seneca School Ebenezer Building, 900 Mill Road.

There is no charge for the course, however, participants will be required to obtain the specified book. Also, a standard \$15 exam fee will be required.

The class will be led by the **STARS** instructor team, lead by **Robert Koster**, **KA2WYE**. If you are interested in assisting with this course, contact Bob at ka2wye@arrl.net.

More information can be found at the West Seneca Cert site: <u>wscert.net/ham</u>.

HELP WITH THE CLASS

If you can help with the technician class listed above, contact Bob Koster, KA2WYE - <u>ka2wye@arrl.net</u>

UP WITH ANTENNAS MICROPROCESSORS

by Don Niles, K2PMC

This month I decided to write a short article about a topic that has really caught my interest and also that of thousands of others. What I am referencing is the ever expanding world of small processors, commonly referred to as microprocessors. However, the only thing micro about today's microprocessors is their size because their speed and processing power is truly outstanding.

Today, just about everyone has heard of the Arduino, or the Raspberry Pi, or the Beaglebone, etc. The technical knowledge or prior skills required to gain a reasonable understanding of these marvels can be a daunting task. Nevertheless, many hams have spent a lot of time learning and understanding the technical requirements of these systems. Not to worry, because in this article I am going to go in a different direction.

I'm going to discuss some of the finer points of a family of microprocessors referred to as 'PicAxe' processors. The PicAxe , like the Raspberry Pi, was also born in the UK. However, that's where the similarity ends. The PicAxe is a microprocessor, whereas, the Raspberry Pi is a complete computer system. Unlike the Arduino platform, the PicAxe doesn't require a voluminous collection of library routines and a strict, nonforgiving programming language known simply as "C". Also, unlike the Raspberry Pi it doesn't require an operating system such as Linux to perform its tasks. Does this mean the PicAxe platform is better than the Pi or the Arduino? Definitely not. What the PicAxe offers is another tool to enable you to "do your thing". And, because of its low cost (\$3-\$5, depending upon model) and simplicity of use, it is something that, in my opinion, should receive first consideration when contemplating a new project.

The PicAxe processors are built upon an easy to learn Basic Language platform. The Basic Language in various forms has been with us for many decades. If you have ever read about or even written a Basic program, you will immediately notice the similarity.

Recently, hardware vendors have been capitalizing on the popularity of the Arduino platform and the market has virtually exploded with mini modules that can do almost anything. Interestingly, the PicAxe can also work quite well with many of these modules. Or, you can use it to cobble together your own project, such as I did with the 'Parking Assistant', a link to which appears at the end of this article.

What kind of projects can the PicAxe handle? LED displays of all kinds are no problem. Motor control, no problem. Sensors (heat, light, proximity, etc.), no problem. Relay control, no problem. Serial communications, no problem. And the list goes on. The PicAxe line of processors can do a heck of a lot of things, without the need for big subroutine libraries and a lot of complicated programming.

The PicAxe processors are upward compatible. If you decide to expand the scope of your project to include more functionality you may have to upgrade to a more powerful PicAxe processor. The code you've been using with your smaller PicAxe will work error free on the larger processor. Your only concern is the pinouts may change when moving to the larger processor.

If you haven't guessed it already I will admit, I am a fan of the PicAxe. It is a simple, yet powerful tool that has a multitude of applications, not only to ham radio but in our everyday life. An example of that is a project I recently completed for my Florida QTH.

I have a row of cabinets in my garage aligned against the back wall. Ergo, it was important to me to park the car so that I had enough room to open the doors and still provide enough room for the garage door to clear the rear end of the car. I initially used the tried and true ball on a string approach which worked

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(Continued from page 4) MICROPROCESSORS

well. But, I thought that this would be a good beginner project for my entrance into the microprocessor environment. This link will show you the results.

https://www.youtube.com/watch?v=DkyNfu_Tiu4

I hope you've enjoyed this article and, as always, your questions and/or comments are encouraged.

73 Don

Don, K2PMC

(Editor's note: If you have questions or comments regarding anything from "Up with Microprocessors", feel free to email Don Niles at: <u>k2pmc@arrl.net</u>.)

COMING EVENTS

STARS 2016 GOALS

Participate in ARRL Field Day	
Participate in the NYS QSO Contest	
Participate in Hamburg's Burgerfest	
Conduct fundraising events	
Conduct a "Homebrew Build Project"	
Hold at least 4 monthly programs	
Install satellite antenna at clubhouse	
Acquire new equipment	
Investigate linking repeater systems	
Enhance back-up power for repeater	

Field Day

June 25-26, 2016

Burger Fest

July 16, 2016

NWS SKYWARN TRAINING		YWARN	Upcoming training is lis [.] For more information, a training session, use thi <u>http://www.weather.ga</u> <u>jon.hitchcock</u>	and to register for a is link: <u>ov/buf/Skywarn</u> <i>or</i>
DATE	COUNTY	LOCATION	ADDRESS	SPONSOR
Tuesday 5/3/2016 7 PM	Ontario	Ontario County Safety Training Center	2914 County Rd 48 Canandaigua, NY 14424	Ontario County Office of Emergency Services
Wednesday 5/4/2016	Niagara	Niagara County Public Safety Training Facility	5574 Niagara St Extension Lockport, NY 14094	Niagara County Office of Emergency Services
Friday 5/6/2016 7 PM	Monroe	Seneca Waterways Council, BSA HQ	2320 Brighton Henrietta Town Line Rd Rochester, NY 14623	Rochester Amateur Radio Association (RARA)
Monday 5/23/2016 6:30 PM	Erie	Erie County Fire Training Academy	3359 Broadway Cheektowaga, NY	Erie County Department of Emergency Services
Wednesday 6/1/2016 7 PM	Erie	Lancaster Emergency Management Office	525 Pavement Rd Lancaster, NY 14086	Lancaster Emergency Management Office

AMATEURS NEEDED FOR BICYCLE EVENTS

With good weather approaching, it's time for many organizations to hold their annual bike-a-thons. Amateur radio operators are of great importance to these events. Amateur volunteer assistance is being sought.

The first event is the Tour de Cure in Niagara Falls on June 4th (American Diabetes Association).

Next is the Ride for Roswell in Amherst on June 25th (Roswell Park Cancer Institute).

Finally, the Bike MS will be on August 6th in Evangola State Park (National Multiple Sclerosis Society).

Amateur radio operators are needed for these events. Erie County ARES coordinates the communications. However, you do NOT have to be an ARES member to volunteer for these posts.

If you would like to participate, you can attend the planning meeting at 7:30 PM, Monday, May 9th, at the Erie County Fire Training Academy, 3359 Broadway, Cheektowaga. Or, contact **Joe Tedesco, KC2DKP**:

kc2dkp@arrl.net

More information is at: <u>www.ecar.wnyserv.com/</u>

WHAT DO AMATEURS DO ON BIKE EVENTS?

So, you may wonder, "What does an amateur radio operator do on a bike event?"

Amateurs use their equipment and skills to provide communications for the bike events. Sometimes, these events are spread over 100 mile long routes.

The center of their activity is staffing the operations headquarters for amateur radio activity. This center is usually co-located with officials holding the event, as well as public service agencies/law enforcement. Staging is another function. This is where amateur radio equipment and tracking devices (APRS) are installed/checked in vehicles for the course.

The "sweep" unit is a vehicle used to mark the last event participant. It is the sweep's function to make sure no riders are left behind without proper assistance.



View from a sweep unit following the last riders in the 2015 Bike MS event, with 2 miles left on the route.

The "sag" is another type of unit. Often a truck, with amateur radios installed, its purpose is to bring riders back when they (or their bike) can no longer function.

Amateur radios (and operators) are also associated with "bike repair" trucks. These are usually provided by bicycle repair agencies. Amateurs/radios are often assigned to them.

Another function is the radio operator assigned to a "rest stop". Rest stops usually have toilet facilities, and sometimes provide snacks. The radio is important in reporting progress, and requesting more supplies.

In summary, it's the amateur radio operators and their equipment that acts like the nervous system for the event. Progress reports, requests for more supplies, calls for emergency services and other support are all dependent upon amateur radio.



http://hamvention.org/

NEW EXTRA EXAMS

Have you been studying for the extra exam? If so, you probably have books or other study materials.

Keep in mind that the question pool for the extra exam has been revised and the new guestions will be used for all extra exams after July 1, 2016.

So, it may be to your advantage to take your extra exam before that date. If you don't, there may be new material/topics you will need to know.

Specifically, the updated question pool will include items about digital technology, SDR (software defined radio), and other modernized items.

STARS will conduct their last exam session before the change on May 21st. You can find other exam opportunities at: <u>http://www.arrl.org/find-an-amateur-</u> radio-license-exam-session

You can see the new question pool at:

http://www.ncvec.org/page.php?id=365

HAMFESTS

5/20-22 Dayton Hamvention

Location:	Hara Arena
	1001 Shiloh Springs Rd
	Dayton, OH
Sponsor:	Dayton Amateur Radio Assn (RARA)
Website:	www.hamvention.org

5/28 **Rochester Hamfest**

Kodak Theater on the Ridge
200 West Ridge Road
Rochester, NY
Rochester Amateur Radio Assn (RARA)
www.RochesterHamfest.org

6/04

Barnard Hamfest of Rochester

Location:	Barnard Fireman's Field
	360 Maiden Lane
	Rochester (Greece), NY
Sponsor:	Rochester Radio Rptr Assn (RRRA)
Website:	http://barnardfire.org/hamfest/

(control-click on name for more info)

FIELD DAY PLANS

STARS has begun planning for the 2016 Field Day, scheduled for June 25-26th.

Similar to last year, **STARS** will center its activities at the Nike Base Clubhouse radio station, just west of the Hamburg Ice Arena, 2982 Lakeview Road, Hamburg.

Generator equipment and temporary antennas will be available to keep the spirit of "emergency communications". Multiple radios/modes will be available.

Get ready for another great radio event!

5/04/2016 Springville CCARET



Sponsor: Bertrand Chaffee Hospital Board Room Location: 222-East Main Street Time: 7:30 PM (Walk-ins allowed)

North Tonawanda 5/07/2016

Sponsor: ARA of the Tonawandas Location: North Tonawanda Fire Headquarters 495 Zimmerman Street - Training Rm Time: 10:00 AM (Walk-ins allowed)

5/07/2016 Jamestown

Sponsor:	CARSC
Location:	Prendergast Library
	509 Cherry Street 2nd fl conf rm
Time:	2:00 PM (Walk-ins allowed)

5/10/2016

Niagara Falls

Sponsor:	Niagara Radio Club, Inc.
Location:	Venture Forthe, Inc.
	3900 Packard Road
Time:	6:30 PM (Walk-ins allowed)

Canandaigua 5/11/2016



Sponsor: SQUAW Island ARC Ontario Co. Safety Training Facility Location: 3019 County Complex Drive 6:30 PM (Walk-ins allowed) Time:

5/14/2016

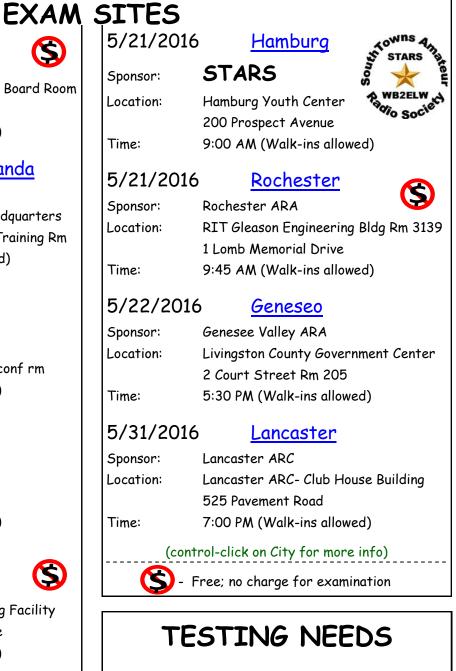


Potter County VE Team Sponsor: Sweden VIIy Faith United Meth Church Location: 1451 Route 6 East 10:00 AM (Walk-ins allowed) Time:

Coudersport PA

Meadville PA 5/17/2016

Sponsor:	Crawford ARS
Location:	St Brigid Church Social Hall
	383 Arch Street
Time:	6:30 PM (No walk-ins)



- Legal photo ID (a driver's license is excellent!)
- Current license and/or CSCE documents, if any, • and a non-returnable photocopy of each
- Federal Registration Number (FRN); if none, then Social Security Number (SSN)
- \$15 in cash, check or money order •
- Two #2 pencils with erasers, and a pen
- Calculators are permitted as long as any program-• ming has been cleared.

(more info)

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July

CONTEST CALENDAR

Start and Finish

Contest Title



Phone Fray CW Ops Weekly Mini-CWT Tests **QRP** Fox Hunt NS Weekly RTTY Sprint NS Weekly Sprint AGCW QRP/QRP Party RSGB 80 Meter Club Championship, SSB ARS Spartan Sprint MIE 33 Contest NRAU 10 Meter Activity Contest 10-10 International Spring Contest, CW Microwave Spring Sprint **ARI International DX Contest** F9AA Cup, PSK SKCC Weekend Sprintathon 7th Call Area QSO Party Indiana QSO Party Delaware QSO Party FISTS Spring Slow Speed Sprint New England QSO Party RSGB 80 Meter Club Championship, Data NAQCC CW Sprint HPC World Wide DX Contest CQ-M International DX Contest VOLTA WW RTTY Contest Arkansas QSO Party MARAC USA QSO Party Portuguese Navy Day Contest **FISTS Spring Unlimited Sprint** 50 MHz Spring Sprint WAB 7 MHz Phone UA2 QSO Party Run for the Bacon QRP Contest RSGB 80 Meter Club Championship, CW Slobozhansky Sprint Contest **UN DX Contest** NZART Sangster Shield Contest Aegean RTTY Contest EU PSK DX Contest His Majesty King of Spain Contest, CW Feld Hell Sprint **Baltic Contest** SKCC Sprint CQ WW WPX Contest, CW Portuguese Navy Day Contest, Dig SARL Digital Contest





(control +click to activate a link)

For more information on contests: <u>http://www.arrl.org/contest-calendar</u>

SPECIAL EVENT STATIONS

Full information at: http://www.arrl.org/special-event-stations

Apr 29 - May 1	W4G	Mile High Radio
May 1 - May 31	K5STO	Stone County Mississippi Centennial Celebration
May 7 - May 8	WA2AXZ	12th Anniversary of the 72 Rag Chew Group
May 7 - May 10	W7G	1869 Transcontinental Rail Road Golden Spike Commemorative
May 7	W2EF	Grover Cleveland Birthplace
May 7 - May 10	W7G	NPOTA Special Event Station W7G - Golden Spike National Historic Site
May 7 - May 13	KM4RE	Russell Elementary's 18 th Annual 27-hour Space Shuttle Mission Simulation
May 7 - May 8	W2RCA	The Radio Club of America Spring 2016 QSO Party
May 7	WE7GV	Titan Missile Museum Special Event
May 8 - May 14	W9IMS	Grand Prix of Indianapolis
May 13 - May 14	W8MVC	SCOUTFEST 2016
May 14	K2GQ	2016 Roseland ARC QSO Party 70 th Anniversary Celebration
May 14	K4RC	Jamestown Landing Day Special Event
May 14 - May 22	W5I	Perrin Air Force Base Special Event
May 14 - May 22	W5I	Perrin Field Museum Special Event
May 14	NI6IW	USS Midway Museum Ship; Battle of Coral Sea Special Event
May 15 - May 21	W4A	National EMS week
May 19 - May 22	W7E	Overland Expo West
May 20	K2CAM	Celebrating Lindbergh's Flight Across the Atlantic
May 21 - May 22	W2GSB	American Airpower Museum
May 21	W5KID	Armed Forces Day
May 21	W9DUP	Armed Forces Day
May 21 - May 22	WOIN	Joplin Tornado Memorial
May 23 - May 29	W9IMS	Indianapolis 500 (100 th Running!)
May 26 - May 30	K5E	Burning Man - Flipside
May 27 - May 30	K1A	Memorial Day Special Event Station
May 28	N6OOD	Annual Veterans and K-9s Unite for Survival and Independence
May 28	N7M	Minidoka Field-In-A-Day
May 29 - May 31	K7M	Klickitat County World War I Memorial
May 30 - Jun 5	W0YL	100 th Anniversary of Red Cross in Iowa
May 30	WW2COS	Memorial Day
May 31	W3J	127 th Anniversary of Johnstown Flood

USEFUL INTERNET LINKS

(control + click to use link)

ARRL MAIN SITE:	<u>http://www.arrl.org/home</u>
ARRL ATLANTIC DIV .:	<u>http://www.atldiv.org</u>
CONTESTS:	<u>http://www.arrl.org/contest-calendar</u>
	<u>http://www.hornucopia.com/contestcal/perpetualcal.php</u>
HAMFESTS:	<u>http://www.arrl.org/hamfests-and-conventions-calendar</u>
STARS REFLECTOR:	<u>http://groups.yahoo.com/group/STARS-WB2ELW/</u>
STARS WEBSITE:	http://www.wb2elw.net
TELSTAR EDITOR:	wb2elw@verizon.net