



March 2015

The HARC Spark

The Official Newsletter of the
Holmesburg Amateur Radio Club
WM3PEN 146.685 Mhz Repeater
K3RJC 444.9 Mhz Repeater
K3FI - CLUB CALLS - WM3PEN
Web Site <http://www.harcnet.org>



Spring Time! Working the FM Birds! *March 19, 2015*

HARC Joins the System Fusion Team

The HARC Board authorized the purchase of a new Yaesu DR1X System Fusion repeater. The repeater will replace the current repeater which was built in the late 1970s.

The System Fusion repeater is a 50 Watt, Dual Band, Dual mode repeater system with both analog and digital capability offering true integration with all aspects of VHF/UHF Repeater infrastructure, including current onsite controller hardware.



Yaesu is offering the \$1700 repeater to clubs for \$500. A \$150 external controller interface may be needed. Ron, K3RJC, is upgrading the 444.9 repeater. This should be a fairly easy switch since it is a single site repeater. The 146.685 repeater will be replaced and operated as a standard FM repeater. We may be able to do some digital work in the future.

To finance the purchase of the repeater, one member has donated \$100 towards the purchase. Other contributions have been received. Contributions are being accepted. The 2 repeaters are expected to be shipped either the end of March or early April.

Working the FM Birds! *March 19, 2015*

Mark, KC3JV, will be presenting a talk on how to work the FM satellites such as AO51 with an HT and simple antenna. He will present a short video and info on how to use a 5 Watt dual band FM HT with a simple hand held Yagi antenna. This should be of interest to all with a Technician or higher class license.

Mark will have antenna kits for sale. This is a great project regardless of what license you have. Everyone can work the birds. Mark says he made a contact on the first try! We hope to use the antenna to make a contact during Field Day.

Allstar Amateur Radio System *April 16, 2015*

This is a special meeting that will include a presentation on the Allstar Amateur Radio system presented by Doug, WA3DSP. Doug has put together a system that will run on the Beagle Bone Black. The Beagle Bone Black is a low cost credit card sized development platform that will run as a full blown system. Doug will demonstrate a complete system that will communicate from RF through the Internet to other Allstar connected networks. His package includes a Baofend HT that's modified to work with the Beagle Bone as a node radio using a Cradlepoint Router and a Verizon Aircard for portable operations. He has also built a system that will control serial devices using the Allstar network. More information on his projects can be found at <http://www.crompton.com/hamradio/BeagleBoneBlackAllstar/>

HARC Board of Directors

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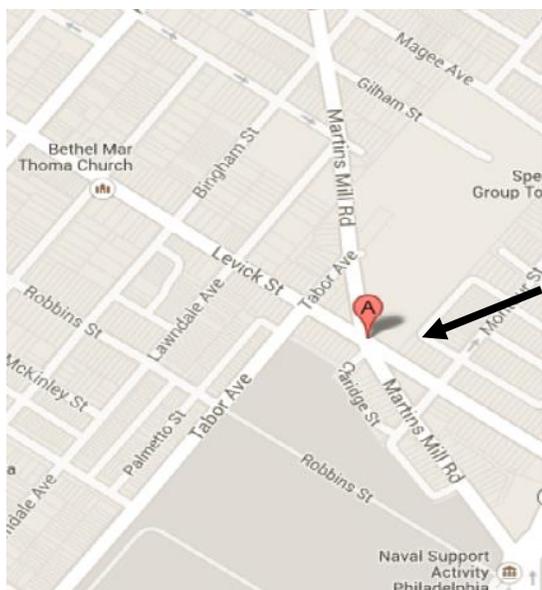
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WM3PEN @ AOL.COM

H.A.R.C. Monthly Meetings - The Board of Directors meets on the 1st Thursday @ 7:30 PM (Even number months). General meetings are held the 3rd. Thursday @ 8:00 PM. Pathway Bldg, Philadelphia Protestant Home, 6401 Martins Mill Road at Tabor Rd . Phila PA. Picnic in August. Holiday Dinner in December.



H.A.R.C maintains the 146.685 repeater located @ Univ. of PA., Phila PA with inputs in Abington, N.E. Phila, and Cherry Hill, NJ; More Club Information & Member Applications can be had by contacting any of the Directors via E-mail.

WM3PEN@arrl.org, the web page

<http://www.harcnet.org> or writing to HARC 3341 Sheffield Ave, Philadelphia, PA 19136.

Keep up on the latest HARC news by checking out the Club website

www.HARCNET.org

Upcoming Events

HARC Meeting

March 19, 2015

Working the FM Birds

PHILA ARES INFORMATION

All amateurs interested in participating should check into the Phila ARES Net, Sunday's at 9:00 PM, hosted on the Phil-Mont Repeater System; 147.030 MHz (+offset 91.5 PL) ;444.80 MHz (+offset 186.2 PL) When control operators are available, Echolink node 29742, WU3I-L, is on the repeater. Backup link is KB3IV-L.

All interested amateurs are welcomed and encouraged to check in for more information. There is always a different topic of interest to the amateur community discussed with an informal round table of comments and suggestions.

Look forward to having all check in on Sunday nights @ 9:00 pm. See web site for more information.

- Visit the Philadelphia ARES web site

<http://www.harcnet.org/aresindex.html>



VE SESSIONS

PhilMont Mobile Radio Club has testing in Ambler, PA on the 4th Thursday of every month. Exams , 1414 E. Butler Pike in Ambler, PA.

Registration begins at 7pm.

Warminster Amateur Radio Club has testing the last Wednesday evening of each month except August and December. The sessions are at the Warminster Recreational and Educational Center on Little Lane, and start promptly at 7:00 PM (registration 6:45 PM).

Bryn Mawr - quarterly on a Saturday. Contact Bob Lees, W3ZQN, rjlees@aol.com

HF AWARDS MANAGER

Are you getting close to having all 50 states confirmed for the Worked All States award or working enough grid squares for to qualify for the VUCC Award? As a HARC service you can now have your QSL cards verified by Bob, WA3PZO, and not have to ship the cards to ARRL Headquarters. You must be an ARRL member to qualify for the awards. Additional information and links can be found on the HARC website (www.harcnet.org)

WA3GM works DX Contest Train Mobile

Returning from Florida on the AMTRAK Autotrain, Greg, WA3GM, decided to participate in the ARRL DX Phone contest while riding home.

Greg didn't have his antenna sticking out of the train window. Instead he connected to his home station remotely via the internet and made contacts on 20 meters. This is really arm chair copy while heading north at 49 mph. Greg commented that he couldn't let a good DX contest go to waste....



Greg's remote console while on the Autotrain.

HARC Will Be At Warminster Hamfest May 3, 2015

The Holmesburg ARC will have 2 tables at the Warminster Hamfest on Sunday May 3 at the Middletown Grange Fair, 576 Penns Park Road Wrightstown, PA. Gate admission is \$5.00. Vendor setup begins at 6 AM and general admission opens at 7 AM. The hamfest generally finishes by 1 PM. The event is rain or shine.

We need help staffing the table. If you have something you would like to sell bring it along. If you have items that you would like to donate to the club to sell contact Bob, WA3PZO or Mike, N3LXN. If you have something you would like to sell but can't make the hamfest, we can sell it for you with 10% of the selling price going to the Club.

Pennsylvania "67" Challenge Award

Amateur Radio operators around the world have the opportunity to participate in the Pennsylvania "67" Challenge. The Challenge, sponsored by the Holmesburg Amateur Radio Club, is to make contact with all 67 Pennsylvania Counties. The Challenge is open to all amateur radio operators regardless of individual station capabilities. All contacts must be 2-way communications made in real time. These contacts may be on any Amateur Radio band/mode.

Contacts made using repeating devices such as FM repeaters, Amateur satellites, moon-bounce, and keyboard-to-keyboard contacts through digipeaters/nodes are valid, because these QSOs are made in real or near-real time. Contacts using IRLP, Echolink, or D-Star are valid as long as a radio is being used by both operators. All contacts must be made from the same county.

As an incentive Pennsylvania "67" Challenge certificates may be earned by working stations in 20, 40, 60, or all 67 Counties. Paper or electronic QSLs are acceptable. The contacts can be verified by a local club officer or mailed to the Holmesburg Amateur Radio Club.

Complete rules are posted on the HARC website. Questions on the Award can be directed to HARC at WM3PEN@ARRL.NET.



Pennsylvania 67 Challenge

Congratulations to
Larry Campi, WA5TRX
For making a confirmed contact
with amateur radio operators in:
Special Endorsement: HF 55B



Presented by the Holmesburg Amateur Radio Club, WM3PEN, January 24, 2012

Amateur Radio Parity Act of 2015 Introduced in Congress (via ARRL Letter)

"The Amateur Radio Parity Act of 2015" -- H.R.1301 -- has been introduced in the US House of Representatives.

The measure would direct the FCC to extend its rules relating to reasonable accommodation of Amateur Service communications to private land use restrictions. US Rep [Adam Kinzinger](#) (R-IL) introduced the bill on March 4 with 12 original co-



sponsors from both sides of the aisle -- seven Republicans and five Democrats. Kinzinger also sponsored "The Amateur Radio Parity Act of 2014, which died at the end of the 113th Congress. H.R. 1301 is an essentially identical piece of legislation.

"The introduction of H.R. 1301 with so many original co-sponsors, so early in this session of Congress, is very encouraging," said ARRL President Kay Craigie, N3KN. "Several additional members of Congress already have agreed to be co-sponsors. This bill has momentum, but introduction is only the first step. Many of the next steps will be taken as ARRL members contact their US Representatives urging co-sponsorship and thanking them as they sign on to the bill."

If Congress approves the legislation, and it is signed by the president, H.R. 1301 would require the FCC to amend its Part 97 Amateur Service rules to apply the three-part test of the [PRB-1](#) federal pre-emption policy to include homeowners' association regulations and deed restrictions, often referred to as "covenants, conditions, and restrictions" (CC&Rs). At present, PRB-1 only applies to state and



US Rep Adam Kinzinger (R-IL) introduced "The Amateur Radio Parity Act of 2015" on March 4.

H.R. 1301 has been referred to the House Energy and Commerce Committee. Rep Greg Walden, W7EQI (R-OR), chairs that panel's Communications and Technology Subcommittee, which will consider the measure. The League had worked with Walden on the 2014 bill during the 113th Congress.

Among H.R. 1301 initial co-sponsors is Rep [Joe Courtney](#) (D-CT), who attended the ARRL National Centennial Convention last summer to speak with League officials and those attending the event about the earlier bill.

Craigie encouraged ARRL members to urge their US House members to sign on to the bill as a co-sponsor. If the House member is already a co-sponsor, call the member's local office or send an e-mail via the member's official website to express their thanks. She called on League members to encourage other hams to do the same, and to be sure to refer to the bill by its number, H.R. 1301. The ARRL has an [H.R. 1301 resources](#) page on its website

"Remember what those pile-ups on the W1AW portable stations sounded like last year?" Craigie said. "Let's be that avid in calling for even greater support in Congress for this essential legislation."

local zoning laws and ordinances. The FCC has been reluctant to extend the same legal protections to include such private land-use agreements without direction from Congress.

H.R. 1301 has been referred to the

Number of US Amateur Radio Licensees at All-Time High

The US Amateur Radio population continues to soar. At the end of 2014, the total number of US Amateurs in the FCC's Universal Licensing System (ULS) database reached an all-time high of 726,275 -- and the trend has continued in the first 2 months of 2015, which saw the total rise to slightly more than 727,000. The figures exclude expired licenses that are within the 2-year grace period, and club station licenses. Outside of a little dithering last fall, growth in the Amateur Radio Service in 2014 was steady, according to figures compiled by Joe Speroni, AH0A, on his FCC Amateur Radio Statistics web pages. Over the past decade, the number of Amateur Radio licenses in the ULS database grew by some 8.1 percent. But 2014 was also a banner year for the ARRL Volunteer Examiner Coordinator (VEC).

"For the first time in the ARRL VEC program's history, we have conducted more than 7000 Amateur Radio exam sessions in a year, an important milestone," said ARRL VEC Manager Maria Somma, AB1FM. "A total of 7216 ARRL-sponsored exam sessions were administered in 2014, compared to 6823 in 2013."

Somma said the number of new licensees spiked to more than 33,000 in 2014, up by about 15 percent from the previous year. Successful license upgrades rose last year by an unprecedented 13 percent over a year earlier.

At the end of 2014, there were 136,405 Amateur Extra, 169,524 General, and 357,236 Technician class licensees -- all record numbers, Somma pointed out. While the number of Amateur Extra licensees grew in each month of 2014, the number of Technicians and Generals -- and of licensees overall -- faltered a bit last July and September. Last year's overall upward trend quickly recovered, however, during the final quarter of 2014. The General population also dipped briefly in May 2014, before rebounding.

Somma believes the July and September dips may have been a result of applicants adjusting to the

new Technician question pool that went into effect last July 1. "We always expect an adjustment period when a new question pool is introduced to the public, as VEs, teachers, and candidates must prepare new study and exam materials," she said. Somma called the dips "a normal part of the question pool cycle."

Technician licensees comprise slightly less than one-half of the US Amateur Radio population. As of December 31, some 51,000 Advanced and 12,000 Novice licensees remained in the FCC database. The FCC no longer issues Advanced and Novice licenses, and their numbers continue to decline.

Once again, California far and away was home to the largest number of licensees among the 50 states, with 102,806 at the end of February. Texas was a distant second, with 51,022, Florida

came in third, with 40,743, Washington was fourth, with 30,511, and Ohio was fifth at 28,256. With the exception of Ohio, the licensing trend in these states has been through the roof. In Ohio, ham radio numbers began to flag a bit in 2014, after holding steady for about the past 4 years.

The state with the fewest Amateur Radio licensees in 2014 was North Dakota, with 1477, but in an overall upward trajectory since around 2009. Others with small ham populations included Delaware (1715 and growing), Rhode Island (1926 and dropping), Wyoming (1868 and headed up), and Vermont (2101 and slipping, after a bump in 2013 and 2014). Pennsylvania showed a slight dip in 2014 (2013- 23871/ 2014 - 23792) Club station licenses in the US numbered 11,501, according to Speroni's statistics. -- *Thanks to Joe Speroni, AH0A; FCC ULS licensing statistics; ARRL VEC (ARRL Letter)*



**HARC
2015 Dues
Are
Due**

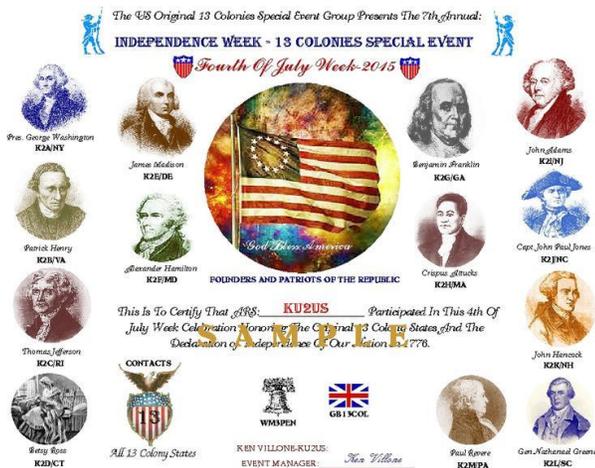
See page 12.

ON THE AIR!

HARC Special Events:

**13 Colonies Special Event:
June 30 - July 5**

WM3PEN will again be on the air for this week long special event. Several radio clubs will be helping us keep **WM3PEN** on the air. Interest in helping contact **WA3PZO**.



Field Day: June 27 -28 This annual event at Avelthorpe Park in Jenkintown is part of a national operating event. More details to follow.

HARC Places 6th in February ARRL School Club Roundup

HARC continues its top 10 finishes in the non-school club category. The SCR is held in February and October to encourage kids to get on the air.

A Century of Amateur Radio and the ARRL

(From the ARRL Letter. By Al Brogdon, WIAB)

VHF/UHF scanners had become very common by the 1990s, and many local and state governments enacted laws making their use illegal. At the same time, several manufacturers of amateur VHF/UHF equipment started including scanners in their amateur transceivers, which provided reception outside the ham bands. This put some hams between a rock and a hard place.

In the late 1980s, the ARRL launched an effort to have the FCC clarify its rules regarding scanners. Finally, on August 20, 1993, FCC published a *Memorandum and Order* to settle the issue. The *Order* stated that hams have a federal right to own and operate their equipment, which preempts state and local radio laws. Furthermore, the FCC's decision supported, at length, the very essence of the purpose of the Amateur Service. Once again, the League represented our interests and preserved our place in radio.

One of the Nobel Prizes awarded in 1932 went to Joe Taylor, K1JT, and Russell Hulse, ex-WB2LAV,

for their discovery of binary pulsars and their investigation of the gravitational fields exerted by those ultra-dense stars. Joe credited his interest in Amateur Radio while still a teenager as leading to his chosen field of physics and to his Nobel Prize.

By 1995, the FCC had implemented electronic filing of license applications, greatly reducing the time lapse between passing a license exam and getting the license. The new system often reduced the waiting period to as little as 2 weeks.



By the 1990s, digital signal processing (DSP) was coming into use in the form of both homebrewed and factory-made devices. "DSP -- An Intuitive Approach," by W9GR, in the February 1996 issue of *QST* explained how DSP works and urged hams to give it a try. -- *Al Brogdon, WIAB*

After many years of political unrest in Myanmar that resulted in the banning of Amateur Radio, the country formerly known as Burma starting cracking the door open to hams in 1994.

Following 3 years of negotiations with Myanmar officials and two small-scale DXpeditions to that country,

Martti

Laine,

OH2BH,

obtained permission for a large-scale

DXpedition

that

would

demonstrate

the value

of ham radio to the government. A multinational ham team operating as XZ1A made many thousands of contacts and even operated in the CQ World Wide DX SSB contest. The article, "DXing from the Golden Land," published in the March 1996 issue of *QST*, told the fascinating story.

For many years, interest in 10 GHz operation had been building, spurred on by the ARRL's 10 GHz contests. By the mid 1990s, many hams were heading to the mountaintops with their small dishes to operate at 10 GHz. Coastal hams with pleasure boats would often go offshore to operate from the rarer grids, but sometimes they would have to suspend operation, when seas became high enough to make dish-pointing from their bouncing boats almost impossible.

Gate 1 of the long-awaited vanity call sign program finally opened on May 31, 1996, after many delays -- including a total federal government shutdown at the beginning of that year, because Congress could not pass a budget.

Gate 1 accepted applications from former holders of expired and unused call signs and from hams asking for the call signs once held by now-deceased relatives. Gate 2 opened on September 23, 1996, for Amateur Extra class licensees to apply.

An interesting juxtaposition of two "the old and the new" articles appeared in the September 1996 issue of *QST*. The first was an article explaining how the then-new Global Positioning System (GPS) works. The next article looked far into ham radio's past as it attempted to



On display at ARRL Headquarters today, the Wouff Hong is a constant reminder to Amateur Radio operators to be mindful of their operating etiquette.

explain the inexplicable mysteries of the Wouff-Hong and the Rettysnitch. The Wouff Hong and Rettysnitch were fictional tools that sprang from the imagination of "The Old Man" (Hiram Percy Maxim), to be used for punishing Amateur Radio operators who demonstrate poor operating practices.

As the "It Seems to Us" editorial related in the October 1996 issue of *QST*, "August was ushered in by a sudden announcement of rewritten FCC rules governing human exposure to RF fields, creating a mountain of uncertainty and concern in the Amateur Radio community." The "Happenings" column in that issue provided more details. An article in the January 1997 issue of *QST* further explained how the new rules would affect hams. -- *Al Brogdon, WIAB*

In January 1997 a high-tech, massive, expensive, and very successful DXpedition was mounted to operate as VK0IR from Heard Island in the Antarctic. The 20-man crew, led by KK6EK and ON6TT, made a remarkable 80,673 contacts! The

VK0IR story was told in detail in the September 1997 issue of *QST*.

The ARRL Board of Directors designated 1997 as Amateur Radio's Year of Public Service, with two aims. One was to publicize ham radio's major role in public service over its many decades of existence. The other was a large public relations effort to tell non-hams about ham radio.

The Phase 3D amateur satellite had been in the works for some time and was nearing its launch date. A five-part series of *QST* articles in 1996 and 1997 described the bird and how hams could use it. As told in the June 1997 issue of *QST*, for his Eagle Scout public service project, Brian, KC4LLD, volunteered to build the Phase 3D shipping container. The project eventually required the help of 21 other Scouts to complete.



The Phase 3D satellite during construction.

immediate applicants.

During 1997, Congress considered the wording of a bill to make it illegal to listen in on cellular telephone signals and to market equipment that covered cellular service frequencies. The ARRL put forth a successful effort to be sure that radio amateurs would not be affected by the bill.

By 1998, hams were communicating via the new OSCAR 27 satellite using hand-held transceivers and whip antennas.

In early 1998, the FCC inaugurated its new Universal Licensing System (ULS). The Commission also required ham radio applicants to use a new Form 610, on which they had to certify that they had read and would comply with the new RF safety rules. The ARRL continued efforts to protect against any possible reallocation of Amateur Radio spectrum.

On September 1, 1998, the ARRL launched a members-only section of its website, which

provided many features of interest to amateurs. *The ARRL Letter*, previously available only via the ARRL website, was thereafter e-mailed directly to subscribing members. By April 27, 1999, some 50,000 members had signed up to access members-only content.

In the late 1990s, the FCC launched a new era in Amateur Radio enforcement. The persistent efforts of the ARRL and recent FCC administrative and staff changes led to the revived enforcement. On January 13, 1999 -- in an unusual move -- Riley Hollingsworth, K4ZDH, special counsel in the FCC Enforcement Bureau, broke in on a 75 meter contact that had degenerated into a nasty confrontation. He got the participants settled down and then stayed on frequency to make a few remarks about enforcement.

Palestine was added to the *DXCC List*, effective February 1, 1999. Later that month a multinational group of DXers operated from Gaza as E44DX, making more than 33,000 contacts and giving thousands a new DXCC entity. -- *Al Brogdon, WIAB*

In early 1999, PSK31 was becoming very popular, with many users considering it to be a replacement



for good old RTTY as a keyboard-to-keyboard mode. Also by 1999, amateurs had developed automated meteor-scatter stations for VHF use -- thanks to APRS, good computers, high-speed Morse, innovative software, and ham ingenuity.

On December 30, 1999, FCC issued its *Report and Order* on Amateur

Radio license restructuring. Beginning on April 15, 2000, the FCC would issue just three license classes -- Technician, General, and Amateur Extra -- and impose a single 5 WPM Morse code requirement for General and Amateur Extra applicants. No then-current license holders lost any privileges, and "old" Technician licensees were able to apply for a General license with no further testing.

And then came Y2K...with none of the breakdowns of society, communications systems, ATMs, aircraft, *ad nauseum*. Everything kept running smoothly. But ARRL used the occasion to revamp *QST*. The editorial staff had spent months developing a profile of the typical ham in order to guide them in making *QST* the magazine that members wanted. In January 2000, *QST* began publishing new columns about QRP, mobile and portable operation on HF and VHF, vintage radio gear, and the "*QST* Workbench." This was in addition to formatting changes to make the magazine more attractive. Starting with the December 2000 issue, all editorial content was printed in full color. By 2000, several states had proposed bans on cell phone use while driving. ARRL began carefully monitoring the various pieces of proposed legislation, to be sure that operating Amateur Radio equipment while driving would not be included among the prohibitions.



On November 16, 2000, AMSAT-OSCAR 40 -- Phase 3D -- was successfully launched into orbit. Initial testing began, but the spacecraft suddenly fell silent. Following many unsuccessful recovery attempts, AO-40 came to life on Christmas Day, with many of its capabilities restored.

During the early 1990s, the ARRL sought to convince the FCC to address the problem of Amateur Radio antenna restrictions and prohibitions by CC&Rs. The FCC declined, so the League then began efforts to convince Congress to direct FCC to do so. -- *Al Brogdon, WIAB*

In July 2001, the ARRL petitioned the FCC to allocate 5.250 to 5.400 MHz to Amateur Radio.

At its July 2001 meeting, the ARRL Board of Directors endorsed the Logbook of The World (LoTW) concept, and Headquarters staffers began the massive push to make LoTW a reality.

In September 2001, the ARRL presented an Amateur Radio demonstration and tutorial to FCC commissioners and staff members. ARRL President Jim Haynie, W5JBP, headed the ARRL contingent, and the show-and-tell was deemed a great success.

Amateur Radio mobilized and provided communication support following the terrorist attacks of September 11, 2001, on the World Trade Center and the Pentagon. The following month, the FCC established a Homeland Security Panel to plan for restoration of communications links following terrorist attacks.

In October 2001, a rash of bio-terrorist (anthrax) threats to federal government facilities caused FCC processing of licensing and other matters to be significantly delayed.

The FCC announced that all applicants must register for and obtain a 10-digit FCC Registration Number (FRN), in order to do business with the Commission after December 3, 2001. -- *Al Brogdon, WIAB*

For years, the ARRL had been requesting the FCC to state that Commission rules preempted homeowners association restrictions or limitations on Amateur Radio antennas. At the end of 2001, the FCC suggested that the League take its case to Congress. ARRL representatives discussed the issue with members of Congress in February, a visit that ARRL President Jim Haynie, W5JBP, called "the best yet" for ham radio. H.R. 4720 was introduced in May. It would



AO-7 came back to life in 2002.

Radio antennas.

During 2001, four North American distance records were set on 10, 47, 241, and 322 GHz, demonstrating that technical prowess, hard work, and persistence can lead to extraordinary technical accomplishments. VE4MA and W5LUA made the first EME contact on 24 GHz in August.

By early 2002, radio amateurs and the ARRL were looking at digital voice emissions as a potential new mode.

On January 31, 2002, President George W. Bush spotlighted five Florida volunteer groups, including Volusia County ARES. During his visit, the president addressed the Northern Florida ARES Net on 75 meters.

An excellent nostalgia article appeared in the June 2002 *QST* -- "The First Field Day," authored by W0AR, who operated in that 1933 event as W9NFV. Some 50 portable stations participated, causing ARRL's Ed Handy, W1BDI, to prophesy, "The enthusiasm greeting our first Field Day augers well for future similar occasions."

On June 21, 2002, signals from OSCAR 7, given up for dead 20 years earlier, suddenly reappeared!
-- Al Brogdon, W1AB

This concludes the ARRL 100 Year history as written in the ARRL Letter. Hope you have enjoyed it over the past year.

World Amateur Radio Day April 18, 2015

Every April 18, radio amateurs worldwide take to the airwaves in celebration of **World Amateur Radio Day**. It was on that day in 1925 that the International Amateur Radio Union was formed in Paris. Since its founding, the IARU has worked tirelessly to defend and expand the frequency allocations for Amateur Radio.

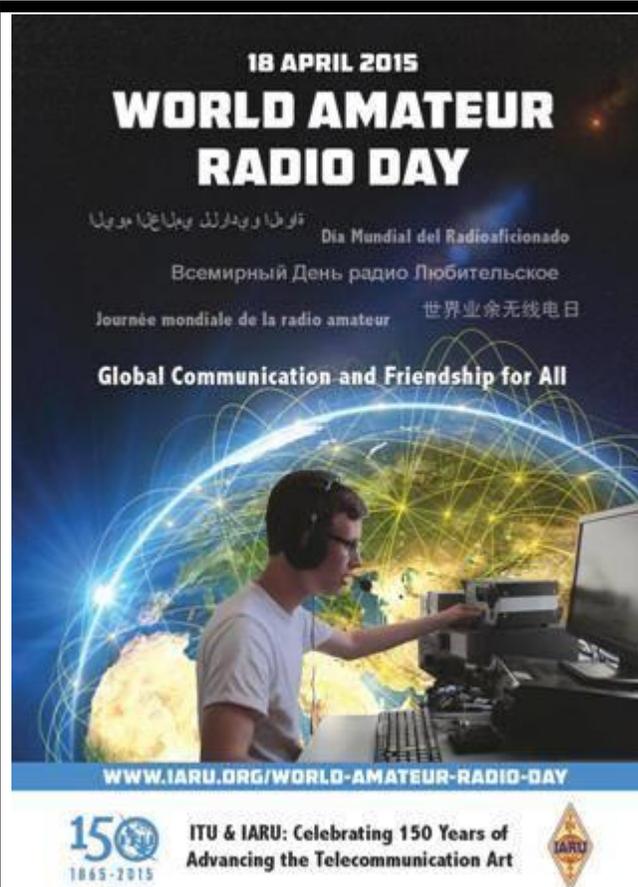
Thanks to the support of enlightened administrations in every part of the globe, radio amateurs are now able to experiment and communicate in frequency bands strategically located throughout the radio spectrum.

From the 25 countries that formed the IARU in 1925, the IARU has grown to include over 160 member-societies in three regions. IARU Region 1 includes Europe, Africa, the Middle East, and Northern Asia. Region 2 covers the Americas, and Region 3 is comprised of Australia, New Zealand, the Pacific island nations, and most of Asia. The International Telecommunication Union (ITU) has recognized the IARU as representing the interests of Amateur Radio.

Today, Amateur Radio is more popular than ever, with over 3,000,000 licensed operators!

World Amateur Radio Day is the day when IARU Member-Societies can show our capabilities to the public and enjoy global friendship with other Amateurs worldwide.

IARU has provided a downloadable poster for World Amateur Radio Day 2015. Any group may download it and have it printed locally for promoting WARD in their area. The poster comes in two sizes:



a. 61 cm x 91 cm poster which can be found at:
<http://www.iaru.org/uploads/1/3/0/7/13073366/ward2015-61x91cm.pdf>

b. A smaller (A4 size) flyer which can be found at:
<http://www.iaru.org/uploads/1/3/0/7/13073366/ward2015-a4.pdf>

April 18 is the day for all of Amateur Radio to celebrate and tell the world about the science we can help teach, the community service we can provide and the fun we have.

We hope you will join in the fun and education that is World Amateur Radio Day!

IARU <http://iaru.org/>

Second Use for Stamps

HARC's participation the Stamps for the Wounded program continues to expand thanks to many donations from club members, friends, families, and other ham radio operators.

Stamps For The Wounded accepts donations of US and foreign stamps as well as stamp collecting supplies and tools. This program helps thousands of patients through clubs and occupational therapy programs in veterans' hospitals and convalescent centers nationwide."

Stamps for the Wounded accepts any U.S. or foreign stamps that are not torn or damaged. They have also requested each stamp should have at least a quarter-inch margin around the stamp. Do not try to either to peel or steam the stamp off the original envelope. The inspiration behind SFTW began with the request from a friend. It was spawned at a Staten Island, N.Y., veterans' hospital effort as a therapeutic activity for the veterans.

This month we had several large donations mailed to us, including a medium size USPS Priority mail box. Donations can be brought to any HARC meeting or contact Rich, AB3EO.

Stay Connected!

The HARC Club net meets every Wednesday night at 8 PM on the Club repeater. Check in and see what's going on.

HARC has a Facebook page. Sign up today.



Follow HARC on the web at www.harcnet.org and via the HARC Spark.

HOLMESBURG AMATEUR RADIO CLUB

3341 Sheffield Ave., Philadelphia, PA 19136
"Serving the Community Through Ham Radio"

March 19, 2015 – Working the FM Birds



**HOLMESBURG AMATEUR RADIO CLUB
2015 MEMBERSHIP FORM**

HARC, 3341 Sheffield Ave, PHILADELPHIA, PA 19136
<http://www.harcnet.org>
WM3PEN/K3FI



All members in good standing are eligible to vote and hold a board office. Dues are \$20.00/year.
Make checks payable to H.A.R.C. and mail to 3341 Sheffield Ave, Philadelphia, PA 19136. Membership year begins May 1.

NAME _____ CALL _____

ADDRESS _____

City, State, Zip _____

Telephone # _____ Are you be willing to receive the newsletter via email? ____
E-mail _____

Are you an ARRL member? YES NO Membership Expires (mm/yy) _____