



Legacy Amateur Radio Club

# RCA AMATEUR RADIO CLUB



AFFILIATED CLUB

INDIANAPOLIS, INDIANA

JUNE 2017

MONTHLY NEWSLETTER

THE NEXT MEETING OF THE RCA AMATEUR RADIO CLUB WILL BE  
TUESDAY, JUNE 13th, 6:30 PM AT [G.T. SOUTH'S](#),  
5711 E. 71<sup>st</sup> STREET, INDIANAPOLIS, IN

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## RCA ARC NEWS

**SUMMARY OF THE MAY MEETING** – At the 9-May meeting Jim, K9RU, announced the Indy Hamfest tables had been paid for. We have, again, quite a lot of junk to sell. Be sure and mark your calendars for July 7 – 8. The Hamfest opens at 2 PM Friday, so we need help moving the “junk” from K9RU’s home to the Hamfest. We will start at 10 AM and we will need help. Plans for the Dayton Hamvention were discussed, including the Friday night dinner, Fri. & Sat. lunch. The IRC bus on Sat. is a good deal, think about it. Field Day will be class 3A, with a GOTA, VHF at Camp Belzer. Operators will be needed to keep three stations going. Plan to attend! The new ham bands the FCC recently announced, 630M and 2200M, were discussed. Remember Museum Ships on the air and the VHF contest in June 10th. The upcoming shuffle of local TV stations was discussed. More information at Rabbit Ears TV Repacking Website: <https://www.rabbitears.info/repackchannels.php>

**RCA ARC AT THE DAYTON HAMVENTION** – By K9RU I have been attending the Dayton Hamvention since the early 60s, starting at the Biltmore Hotel in downtown Dayton with a convention atmosphere, the move to Hara Arena in the mid 60s with the explosive growth of the flea market and now to Xenia at the Green County Fair Grounds.

This was a big move. I can’t even imagine all the work that went into putting it together. It was different and had the feel of a large Indianapolis Hamfest. I heard the forums rooms were a lot better, but due to waiting about an hour and 45 minutes to get to the hamfest gates, I did not have time to attend any of them.

The flea market was laid out good and the food was great with a lot of selection from food trucks, much like a county fair.

Traffic flow was bad. They could have staggered opening of the flea market and commercial exhibits to help with the congestion.

The club had its noon lunch gathering in the grandstands by the track. Turnout was down from the past years. Still had a good time comparing notes about the hamfest and what to see.

Friday evening we had dinner at BJs in Xenia, good turnout, excellent food and service. Had a great time comparing notes about the hamfest and catching up on what everyone has been doing.

I will miss Hara Arena, it had become run down in recent years but at its peak it had the feel and excitement of the Consumer Electronics Shows with the major manufacturers introducing the new rig, products and antennas. – K9RU

## NEXT RCA / IRC AMATEUR RADIO LICENSE TEST SESSION

**Time:** Saturday, **June 10**, Exams start at 12:00 noon. Walk ins allowed.  
**Location:** Salvation Army EDS Training Facility,  
4020 Georgetown Rd,  
Indianapolis, IN 46254  
**Contact:** Jim Rinehart [k9ru@arrl.net](mailto:k9ru@arrl.net) 317 721-1458

## HAMFESTS, OPERATING EVENTS, VOLUNTEER OPPORTUNITIES

June 10-12 ARRL June VHF Contest [www.arrl.org/june-vhf](http://www.arrl.org/june-vhf)  
June 18-19 6M SMIRK Contest [www.smirk.org/contest.htm](http://www.smirk.org/contest.htm)  
June 24-25 ARRL Field Day [www.arrl.org/field-day](http://www.arrl.org/field-day)  
July 7-8 Indianapolis Hamfest <http://www.indyhamfest.com/>

Opportunities for public service: <http://indyhams.org/events>

## HAMVENTION GETS OFF TO A PROMISING START AT ITS NEW VENUE

Official attendance numbers are not yet in, but Hamvention® 2017 drew a happy and enthusiastic crowd to its new venue at the Greene County Fairgrounds and Expo Center May 19-21 in Xenia, Ohio. The sponsoring Dayton Amateur Radio Association (DARA) was forced to relocate the event after the dilapidated Hara Arena in Trotwood closed for good last summer. Traffic jams were the order of the day on opening day, however, with those eager to experience Hamvention's first Xenia outing waiting, or up to 2 hours in traffic. Traffic flow smoothed out on Saturday and Sunday. Heavy rain on Saturday didn't dampen spirits, although it made things a bit dicey in the flea market. ARRL Contributing Editor Ward Silver, N0AX, a Hamvention veteran, gave the show high marks.

"Overall, I would give it a 9 out of 10, just due to the [Friday] traffic and some mud," he said. "I had a great time, and I think a large collective sigh of relief went up from everybody that it all worked out as well as it did -- rain and traffic issues notwithstanding." Silver said DARA did "a fantastic job," in moving the show from Trotwood to Xenia. "I look forward to many more years of Hamvention. They saved it with this performance." Silver noted that Hamvention had renamed several of the large halls on site after such notables as Hertz, Tesla, and ARRL co-founder Hiram Percy Maxim.

"I liked the way they had the buildings clearly labeled," Silver said, "so you could tell who was inside."

QST Managing Editor Becky Schoenfeld, W1BXY, felt Hamvention 2017 went well, by and large. "I visited a lot of forums and generally saw very good attendance," she said. She said ARRL's "Ham Radio Makers and Hackers" forum drew a capacity crowd. "Attendees seemed to be pleased with the number and variety of food trucks." But Schoenfeld and others also remarked on the warm and steamy atmosphere in the exhibit halls on Friday; cooler weather made things more comfortable on Saturday and Sunday.

The ARRL Expo remained busy throughout the 3-day international gathering, which featured, among other things, a meet-the-author table. Visitors also took the opportunity to meet with League Board members and staffers as well as to stock up on new publications and ARRL Field Day gear.

More than 100 turned out for the ARRL Member Forum, where moderator and ARRL Great Lakes Division Director Dale Williams, WA8EFK, encouraged attendees to build something, mentor a young person, become a volunteer examiner, and contribute to Amateur Radio in some meaningful way.

Keynote speaker and ARRL President Rick Roderick, K5UR, offered members more information about the revamping of the ARRL Official Observer program, prompted in part by the FCC's

closing of several field offices and cutting staff.

"We will be retraining OOs," Roderick told the forum. "Instead of focusing on individual offenses by hams, we will focus on patterns of offenses, things that happen routinely. Once we observe and establish a pattern of offenses, then the FCC may become involved."

Roderick also talked about possible changes to entry-level licensing, assuring those on hand that a new or revised entry-level license would not be "dumbed down" but redirected toward privileges that the "new generation" of hams actually want. He also challenged forum attendees to approach potential new hams with activities and information that they will find interesting.

The Hamvention Youth Forum, moderated for her 30th year by Carole Perry, WB2MGP, attracted a large crowd on Saturday morning to hear some of Amateur Radio's best young minds present on a variety of topics.

The HamSCI citizen science team reported "a successful weekend" at Hamvention, with a booth in the ARRL Expo area, where they discussed the HamSCI mission, upcoming experiments, and ways ham radio operators could participate in HamSCI activities, including the upcoming Solar Eclipse QSO Party (SEQP). On Saturday, HamSCI presented an ARRL-sponsored forum about HamSCI research and activities.

Schoenfeld said Hamventioners seemed pleased with the choice of cuisine. "Over the course of the weekend, many Hamvention attendees commented on the variety of food choices that had been available, from 'walking tacos' and corn dogs, to pork chop sandwiches and local sausage," she said.

Products debuting at Hamvention included the FLEX-6400/6400M and FLEX-6600/6600M from FlexRadio Systems; the KPA1500 1,500 W amplifier from Elecraft; the IC-7610 HF/50 MHz transceiver from Icom; a new line of microphones from INRAD, and new antennas from MFJ, Momobeam, and SteppIR. The August issue of QST will include a roundup of new products.

"Xenia was a significant upgrade over Hara Arena," noted contesteer and Hamvention regular Kirk Pickering, K4RO, told ARRL. He said the large, comfortable forum rooms were far better than those available at Hara Arena. Silver pointed out that the new arrangement meant no "QRM" from adjacent forums.

"I really preferred the county fair atmosphere over Hara and am already looking forward to next year," Pickering added. "I felt good about the new venue and think that DARA has found a nice home for Hamvention. Major kudos to DARA for pulling it together."

ARRL Marketing Manager Bob Inderbitzen, NQ1R, compiled some short GoPro videos: The Faces of 2017 Hamvention and A Walk through 2017 Hamvention.

One reflection from attending the Hamvention last week was that it was a year of changes. The venue change was a positive one, and executed well by the Dayton Amateur Radio Association. Getting the outdoor market better prepared for all types of May weather would make it just about perfect.

Rob Sherwood's talk at Contest University about the success of the ICOM 7300 hinted at some potential big changes in HF radio buying behavior. According to his talk, it's estimated that over eleven thousand 7300s have been sold in a year. Those sales figures, if true, in a "ham-radio-is-declining" market are spectacular. Perhaps it will encourage the introduction of other innovative gear.

There were a number of announcements of LDMOS transistor based high-power HF amplifiers, and a few are already shipping at prices mostly competitive with tube amplifiers. The availability of inexpensive, rugged, LDMOS devices may be due in part to their use in number of new high-volume applications such as microwave ovens, lighting, and even clothes dryers.

How soon will it be that we'll see high power LDMOS amplifiers and ever smaller, feature packed rigs integrated into a single-box legal-limit HF rig?

RF-KIT, a firm based in Germany, was exhibiting a legal-limit HF Amplifier Kit at the

Hamvention. The unit on display was using two LDMOS power devices and sported a 7" color touchscreen for amplifier control and status. The kit includes everything necessary to build the amplifier except the Raspberry Pi 3 CPU, and three fans. The company's literature states that it can be built in less than a day.

HobbyPCB, makers of the HARDROCK-50 HF Amplifier, were showing an RF Wattmeter Shield for the Arduino at Xenia. The shield itself is capable of measuring 0.1mW - 2W, and could be a useful component in automated monitoring of your station. --ARRL Letter

## BUILDOUT OF NATIONWIDE FIRST RESPONDER NETWORK COULD DRIVE ARES CHANGES

The First Responder Network Authority (FirstNet) -- a nationwide wireless broadband network for first responders -- could change the complexion of how the Amateur Radio Emergency Service® (ARES®) functions to support communication for responders during disasters and emergencies. As an independent authority within the US Department of Commerce's National Telecommunication and Information Administration (NTIA), FirstNet's mission is to build out, deploy, and operate an interoperable nationwide broadband network dedicated to first responders. Ralph Haller, N4RH, the chairman of the National Public Safety Telecommunications Council (NPSTC), told ARRL that the advent of FirstNet "will likely be as significant as when public safety first began using radio."

"The nationwide network will be hardened, so that it will be more likely that many of today's public safety systems remain operational in emergencies," Haller said, pointing out that Amateur Radio should not expect to have access to FirstNet. He cautioned, "The endurance of Amateur Radio systems in disasters has been a big selling point in the past for incorporating amateur operators in emergency plans, but perhaps not so much in the future."

NPSTC is a federation of organizations that work toward improving public safety communication and interoperability, and ARRL has a seat on NPSTC's Governing Board. Haller predicted that Amateur Radio's role in emergencies will not disappear. "There is no substitute for eyes and ears on the ground in an emergency," he said, adding that radio amateurs "can and should continue to play an important part" in supporting emergency communication.

"Amateur operators can continue to provide valuable information to emergency operations centers in the recovery phase of disasters," he said. "Whether that intelligence gathering is reporting on storm clouds, power outages, or road closures, amateurs can help provide critical, real-time information about conditions over a vast area. While first responders are treating the injured or protecting life and property, the amateur community can concentrate on assessing the overall picture."

On March 30, FirstNet and the Commerce Department announced a 25-year partnership with AT&T as the primary contractor to make FirstNet a reality. "The ability to communicate seamlessly across jurisdictions is critical for law enforcement, fire, and emergency medical services (EMS) when securing large events or responding to emergencies and disasters," a Commerce Department news release said. "In those instances, networks can become overloaded and inaccessible, limiting responders' use of vital communication technologies, such as smartphones and applications dedicated to public safety services."

Public safety agencies already use commercial wireless networks, such as AT&T and Verizon, to supplement their own radio systems and networks, although such communication is not point to point. FirstNet is initially targeted primarily to provide video and data, with mission-critical voice communication at least a decade away. EMS is likely to become a heavy user of the network, which will employ voice command functions a la Siri or Alexa

Inevitably there will be coverage gaps, and the development of "deployables" is critical. These devices can expand the network to areas it doesn't cover but where it may be needed for a specific incident. Deployables could include satellites -- Inmarsat is a member of the AT&T

team. Network security and encryption is a high priority. The Military Auxiliary Radio System (MARS) now uses encryption on its data nets.

While images in the form of digital Amateur Radio television (DATV) and a plethora of digital modes are available to ARES, FirstNet could nudge ARES to more quickly adopt a similar approach. A new generation of radio amateurs steeped in data, image, and video technology is likely to drive ARES to think beyond analog.

Haller advised that the Amateur Radio community should continue to work closely with public safety organizations at all levels to assure that they remain a part of emergency plans.

"The hype about broadband should not result in amateurs inadvertently being swept under the rug," Haller stressed. "Be sure the public safety organizations never forget how valuable the amateurs are!"

FirstNet will use spectrum at 700 MHz -- no immediate threat to Amateur Radio allocations, although there is no guarantee that this won't change as the network approaches the shift to 5th generation (5G) technology. Amateur Radio has access to significant spectrum above 700 MHz.

The expectation is that within a couple of years, a nationwide "core" network will be ready to roll out, and the first public safety users will be on board. Some regional networks have been set up for proof-of-concept purposes and to work out wrinkles. -- Thanks to Mike Corey, K11U, and Ralph Haller, N4RH

## OUR SUN'S 11-YEAR MAGNETIC CYCLE DESTINED TO DISAPPEAR

The Sun's 11-year magnetic cycle appears to be ending, but that won't happen anytime soon. In a paper submitted on May 26 to the journal *Solar Physics*, two solar scientists are reinterpreting earlier evidence to hypothesize that the Sun's rotation rate and magnetic field are in a transitional phase that could lead to lengthening solar cycles, with the cycle ultimately disappearing altogether between 800 million and 2.4 billion years from now. Travis S. Metcalfe and Jennifer van Saders propose the scenario in their paper "Magnetic Evolution and the Disappearance of Sun-like Activity Cycles."

"After decades of effort, the solar activity cycle is exceptionally well characterized, but it remains poorly understood," the authors say in the paper's abstract. "Pioneering work at the Mount Wilson Observatory demonstrated that other Sun-like stars also show regular activity cycles and suggested two possible relationships between the rotation rate and the length of the cycle. Neither of these relationships correctly describe the properties of the Sun, a peculiarity that demands explanation."

The authors cite stellar evidence for the shutdown of "magnetic braking" in stars similar to our Sun. "The new picture of rotational and magnetic evolution provides a framework for understanding some observational features of stellar activity cycles that have until now been mysterious," they said.

Metcalfe explained their observations through a recent *Forbes* magazine article. "Our previous discoveries identified an unexpected transition in the rotation and magnetism of middle-aged stars," Metcalfe is quoted in the article, "The Sun's Magnetic Dynamo Is Weakening" by Bruce Dorminey. "We now have direct evidence that the stellar dynamo -- the mechanism inside stars that sustains their magnetic fields -- actually shuts down during this transition."

In their paper, the authors said that future observations with the Las Cumbres Observatory global telescope network "promise to probe the onset and duration of the magnetic transition that drives the evolution and eventual disappearance of Sun-like activity cycles."

A 2016 paper Travis co-authored -- "Stellar Evidence that the Solar Dynamo May Be in Transition," published in *The Astrophysical Journal Letters*, concluded, "The Sun still exhibits a dipole component to its global field, particularly near magnetic minimum, but the solar analogs also suggest a gradual concentration of the field into smaller spatial scales, leading to

weakened magnetic braking,"

Metcalfe is listed on the paper as being associated with the Space Science Institute and the White Dwarf Research Corp, both in Boulder, Colorado. Van Saders is listed as being associated with the Observatories of the Carnegie Institution for Science in Pasadena, California, and the Department of Astrophysical Sciences at Princeton University in New Jersey.

## QB-50 CONSTELLATION SATELLITES DEPLOYED FROM INTERNATIONAL SPACE STATION

More than 2 dozen [QB50](#) constellation CubeSats have been deployed from the International Space Station (ISS), including three carrying Amateur Radio transponders. Built by student groups from 23 countries, the "string-of-pearls" QB50 constellation aims to study the lower thermosphere 200-380 kilometers above Earth. The satellites were launched to the ISS in March aboard an Atlas V rocket.

In all 28 QB50 2U and 3U CubeSats were released into orbit between May 16 and May 25. These included [LilacSat-1](#) (ON02CN), which includes an Amateur Radio VHF/UHF FM to Codec2-BPSK digital voice transponder, APRS digipeater, and a camera; [X-CubeSat](#) (ON01FR) and [SpaceCube](#)(ON05FR). LilacSat-1 now is operational. Its transponder's FM uplink is 145.985 MHz (67 Hz CTCSS tone); the Codec2 9600 bps BPSK downlink is 436.510 MHz. The uplink frequency for both X-CubeSat and SpaceCube is 145.860 MHz (210.7 Hz CTCSS tone). Downlinks are 437.020 MHz for X-CubeSat and 436.880 MHz for SpaceCube.

**LilacSat-1** was developed at the Harbin Institute of Technology. Its primary payload is an ion and neutral particle mass spectrometer, developed by the University of London, to measure the mass and distribution of charged and neutral atoms. Shortly after its deployment, LilacSat-1 took a picture of the ISS solar panels, and the image was received by students on 70 centimeters, using 9,600 bps BPSK.

**Eight other QB50 CubeSats** will be placed into orbit from India onboard Polar Satellite Launch Vehicles (PSLVs). No launch campaign has been announced for another four QB50 CubeSats. All of the QB50 CubeSats have downlinks between 435.8 and 438 MHz, and [reports](#) from radio amateurs are welcome.

In 2014, two precursor QB50 CubeSats were launched -- QB50p1 (EO-79/FunCube-3) and QB50p2 (EO-80). Both carried Amateur Radio transponders. --ARRL

## HAM RADIO AVIATOR ATTEMPTS NEW YORK TO PARIS SPEED RECORD

Brian Lloyd WB6RQN Flight Commemorates 90 Years Since Lindbergh. As pilot Brian Lloyd propels his single-engine plane named "*Spirit*" eastward into the sky this week from Republic Airport on Long Island, he embarks on a dual mission. He is commemorating Charles Lindbergh's famous solo transatlantic flight that made history in May of 1927, while simultaneously attempting to break a speed record for the New York to Paris air route. To make things even more interesting, he intends to communicate live via radio with Ham operators while in flight.

"I am driven by the spirit of historic flights," Brian Lloyd said, "it is important to remember the pioneers like Charles Lindbergh, and their contributions to aviation. Their bold actions made today's air travel possible for all of us."

While he is soaring over North America or international airspace using the call sign WB6RQN, operating on the following frequencies: 14210 kHz USB or 7130 kHz LSB. His HF radio is a Mobat [Micom-3](#), running a maximum power of 125 Watts, with an antenna under the fuselage. He also utilizes [ALE, Automatic Link Establishment](#), on the Amateur Radio [HFLINK](#) frequencies <http://hfink.com>

"I've been a ham radio operator since 1976 and enjoy radio communications very much. The plane is set up with HF radio through the normal pilot headset controls, so it is easy to use. The HF is normally utilized for aeronautical purposes on trans-oceanic routes," Brian said.

Commercial airliners fly long distances every day, but non-stop ocean flights are quite difficult for small propeller planes, which have limited range. To make it possible, Brian Lloyd modified his 1979 Mooney airplane to carry 150 gallons more fuel, then equipped it with modern navigation equipment, long range radio, and satellite communications. Still, the flight is not without risk, and special safety gear must be taken along. The public is able to track his flight on the web, social media, as well as Ham radio.

The flight commences after the first sign of good weather for the route, beginning on Monday, May 22. When Mr. Lloyd returns to USA from Paris, he won't have much time before taking off on the next phase of Project Amelia Earhart, a round-the-world commemoration of Amelia Earhart's historic flight, which departed 80 years ago in June of 1937 from Miami. --ARRL

## FCC ISSUES AMATEUR RADIO LICENSEE A NOTICE OF VIOLATION FOR PIRATE BROADCASTING

The FCC Enforcement Bureau has sent a California Amateur Radio licensee a *Notice of Violation (NoV)* alleging that he engaged in unlicensed -- or "pirate" -- radio broadcasting -- on the FM band. The NoV to Lyle E. Hilden, KD6LUL, of Vista, was released on May 26. Depending on Hilden's responses, the NoV could be a precursor to a *Notice of Apparent Liability for Forfeiture* (fine).

According to the FCC's Los Angeles Office, the Enforcement Bureau in March received a complaint of an apparently unlicensed FM broadcasting station on 93.7 MHz in Vista. The NoV does not indicate the origin of the complaint, but these sometimes come from legitimate broadcasters in the listening area. The NoV also does not recount the nature of the alleged pirate broadcasts nor indicate how long they had continued. The following month, FCC agents monitored the apparent unlicensed signal 93.7 MHz and used direction-finding techniques "to positively locate" its source as Hilden's residence.

"Field strength measurements revealed that the signal transmitted by the station greatly exceeded 250  $\mu$ V per meter at 3 meters -- the maximum permitted on 93.7 [under Part 15 rules] without a Broadcast license," the FCC said in the NoV. Agents inspected Hilden's station and pointed out in the NoV that his Amateur Radio license does not entitle him to transmit on the FM broadcast band.

The FCC called on Hilden to provide additional information in writing within 20 days of the NoV, fully explaining any violations and providing "all relevant surrounding facts and circumstances." Hilden also must spell out and provide a timeline for the actions he has taken to correct any violations and preclude their recurrence. ARRL Letter

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## TECHNICAL

**New TAPR WSPR TX Shield for Raspberry Pie** -<https://forums.grz.com/index.php?threads/tapr-wspr-tx-shield-and-wsprypi-works-but-it-takes-some-work.568762/>

**APRS with a Baofeng, Bluetooth TNC by Mobilinkd** - If you say APRS is not popular or useful, You are wrong. Check this video out. The Mobilinkd battery powered bluetooth TNC and a \$26 HT can get you on the network, show other stations on a map and message to cellphones/email. <https://forums.grz.com/index.php?threads/aprs-with-a-baofeng-bluetooth-tnc-by-mobilinkd.567478/>

**Some Internet-connected televisions supporting the DVB-T standard (used outside the US) may be vulnerable to hacking by a malicious payload arriving via the DVB-T receiver.** In a [proof of concept](#), a malicious over-the-air signal was able to overwhelm the normal



received signal, and the television was instructed to retrieve a firmware update from a malicious website. The specifically crafted firmware had access to the all of TV's resources.

**Some GPS units will display Maidenhead grid locators, and Lynn, N7CFO, [keeps a list of them](#).** When roving for VHF/UHF Contests, or if you're lost during the Stew Perry Contest but found an awesome spot to put up your 160 meter blimp, you're doing to need to know your [Maidenhead Grid](#). (Bob, K0NR, via VHFcontesting reflector)

**Ash, KF5EYY, has shared his [design of an Arduino-based SO2R controller and 6x2 Antenna Switch](#)** compatible with the Open Two Radio Switching Protocol (OTRSP). By supporting the OTRSP protocol, it's compatible with logging programs that use support OTRSP for SO2R radio control, such as [Win-Test](#), [DXLog](#), and [N1MM Logger+](#).

**Microsoft to [release a security patch](#) for Microsoft Windows XP** - It hasn't been prudent to use Microsoft Windows XP since support for patches ended on April 8, 2014. The impact of this week's ransomware virus has compelled Microsoft to [release a security patch](#) for this obsolete operating system. According to Bob, N6TV, "In light of all the damage caused by the WannaCry ransomware, including many out-of-service Windows XP systems that many of us may still use on at least once computer, Microsoft has issued Security Patch KB4012598. You can go to the Microsoft web site (<https://www.microsoft.com/en-us>) and enter "KB4012598" in the Search box at the top to find it, or you can use [this direct link](#) to the software catalog page. The patch is a simple program (.exe file) that you download, run once, and then reboot. To verify installation after reboot: Start, Control Panel, Add or Remove Programs. Check the \*Show updates\* box at the top, wait a bit, then scroll down to \*Windows XP - Software Updates\* at the bottom. You should see Security Update for Windows XP (KB4012598) at the bottom of the list."

## SHORTS

**The Fraunhofer Institute for Integrated Circuits**, inventor of the digital format, announced it was terminating the licensing program for MP3s. While the group was successful in getting the format off the group, it failed in its attempts to kick-start an MP3 player and a music-streaming service ("because it was technologically absurd").

"The MP3 not only upended the recording industry but, thanks to the iPod, also contributed to Apple's late-'90s transformation into one of the most successful companies in history. (On Tuesday, the tech giant passed \$800 billion in market capitalization, the first U.S. company to do so.) But now, 22 years later, the MP3 truly is dead, according to the people who invented it."

**Yaesu announced two new mobile radios** that will be coming to the market later this year. The [Ft-2980R](#) is a 80W 2M rig that will be replacing the [FT-2900R](#). The [FTM-3207DR](#) shares the same platform as the [FTM-3200DR](#), but is the UHF 55W variant. More information and specifications can be found at the links below!

FT:2980R: <https://www.gigaparts.com/yaesu-ft-2980r.html>

FTM-3207DR: <https://www.gigaparts.com/yaesu-ftm-3207dr.htm>

**60m allocation for Mexico** - The Mexican telecomms regulator, IFT - Instituto Federal de Telecomunicaciones, has approved amateur operation on the new WRC-15 60m amateur secondary allocation of 5351.5 to 5366.5 kHz. Maximum power permitted is 20W EIRP.

**Glenn Baxter, ex-K1MAN, SK; Engaged in Protracted Enforcement Battle with FCC** - Glenn Baxter, ex-K1MAN, of Belgrade, Maine, [died](#) on May 5. He was 75. In 2014, Baxter ultimately lost his battle to retain his Amateur Extra class license when the FCC dismissed his long-standing renewal application, citing an unpaid \$10,000 forfeiture stemming from violations over a period extending back several years.

Over a period of decades, Baxter -- a licensed professional engineer in Maine and Illinois -- ran afoul of the FCC stemming from complaints of malicious interference resulting from his program-length AM transmissions under the flag of his self-styled American Amateur Radio Association. Baxter's transmissions included, news, interviews, commentaries, and



rebroadcasts of ham radio news programs produced by others, including ARRL, with which Baxter also had feuded.

In 2012, the US District Court for the State of Maine ruled in the FCC's lawsuit to collect Baxter's fine, initially \$21,000. The Court agreed with the FCC on the first two counts -- willful or repeated failure to respond to FCC requests for information, and willful or malicious interference -- and granted summary judgments to the FCC in the amounts of \$3,000 and \$7,000, respectively. The Court declined to rule on the third issue -- communications in which an amateur station licensee or control operator has a pecuniary interest -- saying that issues of material fact remained to be litigated.

**Operating Bicycling CW mobile** <https://www.youtube.com/watch?v=I9Mp3MemzeU>

**Video for the restoration of the Heathkit - Vertex & Standard HTs**  
<https://forums.qrz.com/index.php?threads/restoration-of-the-vertex-standard-old-radio-c-550-c-558-ect.568335/>

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***THANKS FOR READING!***

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