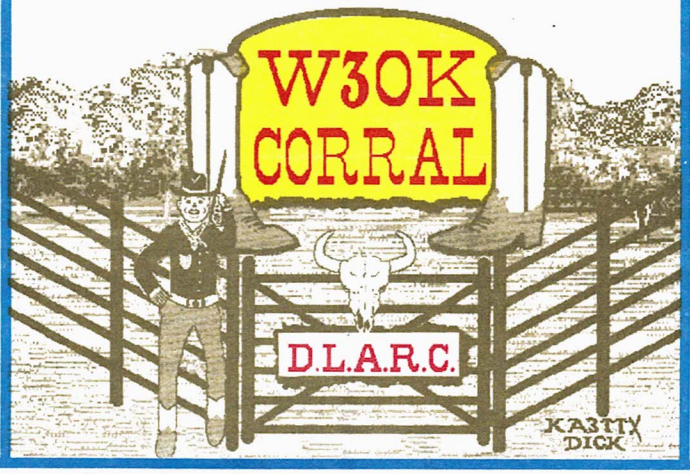
DELAWARE - LEHIGH AMATEUR RADIO CLUB, INC. W3OK

December 1995



SPECIAL SERVICE CLUB
ARRL

ARRL Affiliated Club

CHRISTMAS CITY STATION DEC 16 & 17

DLARC Special Event Station, W3OK from the Christmas Cities

by Bob, KE3AW

Before we know it, the Christmas Season will be upon us. Club members, plan to be a part of the **Delaware-Lehigh Amateur Radio Club's** Christmas tradition. Plan to operate W3OK from the Gracedale station on either or both days of the 1995 Christmas Cities (Nazareth and Bethlehem) Special Event Station. Dates are **Saturday, December 16 and Sunday, December 17, 1995.** The times of operation are **9 am until 9 pm** local on each day. We expect hundreds of QSOs again this year in the 24 hour period. The Christmas Cities Special Event Station is announced in the popular radio magazines, and announcements also will be on packet.



QSL certificates will be issued to stations contacting W3OK, and club members who participate by working at the W3OK club station event will receive a special Certificate of Participation.

To allow as many operators the times they desire, we ask that anyone interested in blocking out an hour -- or whatever time period -- does so as early as possible. Work alone or with another; your choice, if you schedule in advance. We'll be happy to put you on the roster. This helps us organize a continuous listing of operators for all 24 hours of the operation.

If you find yourself with some time on that weekend, but you haven't scheduled yourself in, stop by the station anyway. Visitors are welcome to stop by, see how things are going and have some coffee, cake, cookies, etc.

If you want to schedule yourself to operate the station in this special event, sign up at the December DLARC meeting or contact Brad/KA1RAH or Bob/KE3AW. We'll be happy to put you on the schedule. Operation will be under a control operator with at least General Class License privileges, so all license class holders may operate this HF activity. Be part of a DLARC holiday tradition.

de Bob, KE3AW

December DLARC meeting
Kiva Hall, NCC DEC 7th, 7:30pm,
What do you want to know?

by Tom, N3LLL

December's meeting will be a **Panel of Elmer's**, Those guys who are always around when you need some help. The forum will be a question and answer session. Please address you questions before hand to n3lll@w3pyf on packet or give me a call.

We also may have a visit from a representative of one of the big three amateur radio manufacturers, hopefully with demo radios in hand.

Do not forget to bring your **"Show and Tell"** items, these items are often one of the highlights of our meetings.

de Tom, N3LLL

Check your mail label. This is the December issue and dues will be due by the January meeting. Either bring them to the December meeting or mail direct to treasurer Dick Dech

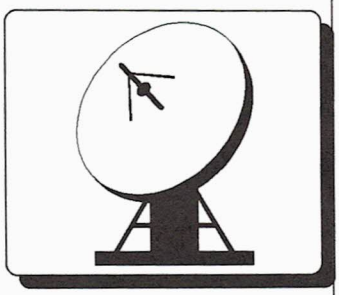
120 McIlhaney ave, Bath, PA 18014-1612

New media systems

DARS: A Threat to Radio Broadcasters?

By Joe W3JD

Through a Notice of Proposed Rulemaking (NPRM), the FCC announced in June its intent to allow a satellite Digital Audio Radio Service (DARS). Hundreds of radio broadcast station owners wrote to the FCC during the comment period for this rulemaking with their concerns about the effect such a service would have on the traditional terrestrial broadcasting system.



Unlike DAB (Digital Audio Broadcasting), which is basically a digital version of local radio broadcasting, DARS has the potential to provide a nationwide radio broadcasting service. Motorists would be able to drive across the country and receive the same radio station from coast to coast through a satellite receiving antenna only a few inches in diameter mounted on the roof of the car. Current broadcasters fear that the local appeal of radio -- and the viability of local stations -- will be destroyed by such a service. Radio broadcasting is already a highly-competitive business, with audiences becoming more and more segmented with each new station or format change. The competition of DARS could well push some marginal broadcast operations into bankruptcy.

The National Association of Broadcasters (NAB) has asked the FCC to place several restrictions on the new service. The first is that DARS be confined to a subscription-only service. Assuming that a pay service would be commercial-free, this would keep DARS from siphoning off national advertisers from terrestrial stations.

The NAB has also asked that the service not be permitted to establish land-based repeaters to fill in gaps from the satellite broadcast. Such repeaters would essentially turn DARS into a terrestrial service.

Although the DARS stations would broadcast on S-Band channels between 2310 and 2360 MHz (2.3 GHz) , the FCC has proposed that feeder uplinks be established in the 7 GHz band -- which is heavily used already for studio-to-transmitter links and remote pickups by television broadcast stations. The Society of Broadcast Engineers has asked that DARS feeder uplink stations not be permitted within 80 kilometers of existing broadcast auxiliary receive sites.

As might be expected, a number of non broadcasters wrote to the FCC in support of DARS, with comments ranging from the desire to see technology advance, to the suggestion that the service would provide more listening choices in rural and isolated areas.

A historical note: Between terrestrial digital broadcasting on existing channels --already in the testing phase -- which would effectively remove the difference in audio quality between AM and FM broadcasters, and the possibility of a satellite-based radio broadcasting service, the radio industry has come a long way since what has come to be considered its first broadcast 75 years ago last month (November 2, 1920) by KDKA in Pittsburgh. That 50-watt station was actually a higher power version of experimental station 8XK, established by Dr. Frank Conrad of Westinghouse. Conrad had been given the privilege of continuing on-air operations during the wartime period of 1916-18 when other stations had to cease transmissions. His experiments built on the work of others before him to establish what was to become the radio broadcasting industry.

de Joe. W3JD

November 3rd, VE Session

by Robin, WA3T

At this session, four candidates took a total of six elements. There were two new licences...

Denise A. Reiger	**new Technician Plus**
Benjamin L. Gilman	**new Technician**

One candidate gained element credit.

The VE's at this session were: **Bill, NC3P; Bill, NS3J , Glade, WA3MVQ;** and **Robin, WA3T.**

The next test session will be on December 8th; team 4 will be in attendance on that date.

I apologize for my delay in getting an updated schedule to the VEs. I'll mail it Real Soon Now (this month).

73 de Robin, WA3T, Team Liason

Radio Friend

downloaded from packet radio

The following was written by Beryl, KE6JLJ, one of the newer Southern California hams.He's recently retired, has just discovered amateur radio, and is fascinated by it. After reading it over a local net, it was suggested he share it by posting it to the packet network. This I am doing as a favor to him.

Radio Friend

by Beryl, KE6JLJ

I've just started in a new stage of life,
I pray that it won't be to hard on my wife.
I took early retirement as some men want too,
And acquired a new hobby, something extra to do.
It's called amateur radio, what a delight,
At making new friends, it's out of sight.

I was having a QSO on this one special day
When this breaker broke in with something to say
With a great speaking voice in a nice, gentle way.
We found we had lots in common, our conversation ended that way.
It's funny how how our minds work at picturing people we've never seen.
I saw this man as not too tall, and quite lean.

We talked with each other over several more days,
With the loan of an antenna a meeting was arranged.
Well, what a surprise as he appeared at my door,
Approximately 230 pounds and stood six-foot-four.
Well, he's a giant of a man, not in just structure, you know,
He's kind and he's a poet, oh how the words flow,
With this person I met on the radio.
I'd like to call him friend, just want him to know.

--Beryl, KE6JLJ

General Classes to begin Jan 8th

by Chris, NU3L



Classes for the General License will start on Monday, January 8, 1996 and continue for approximately 6 weeks. Classes will be held in the Greystone Building at Gracedale near Nazareth, PA from 7 to 9 PM.

Each session will focus on theory however at class discretion some time may be devoted to code to help people measure their progress in their program of self study.

Students should purchase a copy of the ARRL General Class license manual prior to the first class.

As time permits we may also discuss selected topics for the Advanced License examination.

These classes sponsored by the Delaware Lehigh Amateur Radio Club, Inc. are free and are open to any ham.

Please let us know if you plan to attend by calling the DLARC telephone answering machine at 820-9110.***de Chris, NU3L for the Educational Committee***

For Sale

Ten-Tec Omni A
949 MFJ Antenna Tuner
234 Ten-Tek Speach Processor
KR50 Ten-Tek Memory Keyer
1827 Frequecy Counter
5BTV Hustler Omni antenna
all manuals

Full Price for all $400.00

Call John N3DSP @ 610 252-5442

Icom R70 General Coverage Receiver **$400.00**
Icom GC5 12-24 hr analog cloc **35.00**
486 VLBus Mother bd with 486DX2-66 CPU/Fan **135.00**
100 feet Cablewave 1/2 in 50 ohm hardline coax with N connectors.....**75.00**

Call Howard @ 610 395-9716

SB200 Like new to excellent.. New RF parts, tubes Jan/95...**$500.00** Firm plus shipping if necessary.

Call Jim, @ 908 454-3724.

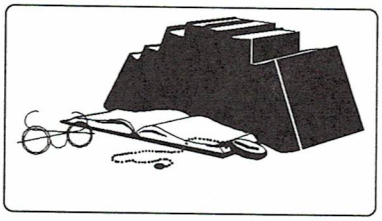
ICOM HT-model 2GAT - 7 watts with:
HM-54 Speaker-Mike
BC-35 Desktop charger
BC-16U Wall charger
AD-12 External Power Adapter
CP-11 Cigrett Lighter Power Cord
BP-7 Battery (Spare)
Total **$350.00**

ICOM IC229H Mobile with mount **$275.00**
Kenwood Model TM2530A with mount **$225.00**
If interested call Harlan, N3IUW @ 610 252-4234.

Jus Do Minnit!

by Amy, KD3TI, acting secretary

While I was waiting for the start of the DLARC November meeting, I was getting out paper and pencil for notes. I need to write down important items, like upcoming events, so that I don't mix up what I volunteer for and when it is to be. Our Fearless Leader, N3LLL, came over and said, "You look like you're all prepared. Our secretary can't be here tonight, could you take the minutes?" Before sanity could set in, I replied, "Sure." Too late, the voice of reason reminded me, "Great! You not only have to write fast and get everyone's call sign right (or they'll break all the antennas off your car at the next meeting), you ALSO have to write it up in something close to English AND submit it to...W3PYF! BEFORE his deadline! Who? Me? Jus Do Minnit! Well, I'll try.



Opening the meeting, Tom pointed out a unique bit of radio trivia, 15 years ago today, the very first broadcast radio station began operation. It was KDKA, in Pittsburgh Pennsylvania (my hometown, and as such, near and dear to my heart). Also, when the first broadcast licenses were granted, the first letter of the call was supposed to designate the general location, K was assigned to California.. .however, the station was relocated to Pittsburgh before it began operation and kept the callsign. Tom noted that our secretary was working on obtaining nonprofit organization status for our club which would, for starters, grant us an even lower rate on mailing the newsletter. Dick, KA3MOU read the treasurer's report. W3PYF, Clarence motioned that it be accepted. The motion was seconded by W3FYK, Bill and passed by the membership. WA3T, Robin, reminded everyone of the VE Session to be held Friday night at Gracedale as usual. KE3AW, Bob, reported that the novice classes are nearly done, they are scheduled for two more weeks. A couple of students already have passed exams or elements for their licenses.

Coming to December's meeting we are expecting 2 programs. One will be a talk by K2DCY on antique radios. The other will hopefully be an 'Ask Elmer' panel, a question and answer session for all of who have not yet solved the mysteries of our versatile, sometimes frustrating hobby (Oh, Elmer, please explain why my HF rig has refused to load properly since I replaced my coax? Hmm, my student, did you connect the coax from the G5RV, or the Bingo to your HF rig? Ah, well. ..I take the Fifth, oh Great One!). KE3AW, Bob, also reminded all that we will hold our annual Christmas City Station special event on December 16 and 17. To get the operating times you want, please sign up with him as soon as possible. All operators are invited, even if you can only stop by for a short time to allow another op to rest their voice.

W3TDF, Ray, gave an update on the PA QSO Party. At this time, it looks like the club has about 2.4 Million points, slightly behind our record of 2.6 Million. Thanks to ALL who participated. W3TEB announced that the Night Owls are arranging a banquet and invite all hams, and XYLs to join them. It will be held Nov. 12 at 1:00 at Old Country Buffet at Whitehall Mall. Cost is $ 7.50 each. See TEB for tickets for some great door prizes, must be present to win.

Apparently there have been some rumors that with the new 911 system coming, we might not have a place at Gracedale any longer. Tom asked Nick Tylenda, N.C. Emergency Management Director about this, Nick had this reply.. ."Irregardless of 911, this is the N.C. EMA headquarters and to the best of my knowledge will remain EMA headquarters and DLARC/ ARES/Races will have a place with us for the foreseeable future." W3PYF reported that response to the request for members to update their ARES/RACES information has been small. All amateurs who wish to be part of ARES/RACES are requested to PLEASE return the surveys from September's newsletters ASAP. New rosters and NEW MEMBERSHIP CARDS will be made up shortly. It is NOT necessary to live in Northampton County to join N.C.ARES/RACES.

N0KIA, Paul, reported that Lehigh Cty. RACES participated in a recent drill involving a mock disaster at the Limerick power plant. EMA officials were pleased and impressed with the turnout and the abilities of Ham radio operators to assist in times of emergency.

The club extends its deepest sympathy to WX3C, John, whose wife was fatally injured in an auto accident about a week ago.

Two applications for membership were submitted. **Steve Roseman, call pending.**
Joe Domnoyer, N3TWD.
N3SQD, George, , moved to accept them both. Second was made by WD85CX, John. Membership voted to accept both applicants.

It was also reported that AA3JU, George, will be the new program director (and he promises that not every program will be directed at DX). KA3AQV obtained several copies of a very nice frequency chart from General Instrument that covers ALL radio services. He is selling them for $ 1.00 each, a colorful and informative addition to any shack. W3TEB showed off a railroad telegraph key that he restored, it was tested by Ray, W3TDF and certified operational again.

Tonight's programs were presented by Ellen Holt from Prolog on the Internet and by Tom, N3LLL, on a satellite tracking program he is using. Hope I didn't go too much over my allotted space!

de Amy, KD3TI, acting secretary

Ham Radio Online

More Ham Bands up for grabs?

The November 2, 1995 edition of TR Wireless News reports that Flash Comm, Inc, a joint venture of Harris Corp. and Leamark International, has proposed a nationwide short message wireless data system using 10 watt unlicensed transmitters operating throughout the 3 to 30 MHz HF bands. The system would provide short data transmissions to and from vehicles, especially commercial trucking and other fleet operations spread over a wide area.



The report says that the system might use existing paging system technology to transmit messages from the network to the mobile vehicle. The mobile vehicle would then respond with an HF frequency data burst. According to the story, the system would scan the entire HF band to located "unused" channels, and then send a data burst of up to 5 seconds duration. The same frequency would then not be used again for a "long and random time interval".

According to the report, the HF band would be divided into 9,000 channels and any clear channel would be up for grabs. The goal is that the system would only use a channel slot when there is no other traffic on the channel. If the system did end up on an in -use channel, the transmission is alleged to sound like a brief increase in background noise.

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NTIA Report Recommends Reallocation of Microwave Amateur Bands

In a report issued by the National Telecommunications and Information Administration titled Land Mobile Spectrum Planning Options, the NTIA recommends reallocation of the 2300 -23 10 MHz band, and increased use of the 2390 -2400 MHz, and 2402 -2417 MHz bands by unlicensed devices for various land mobile communications functions. The complete report is available online.

In another matter, the NTIA has weighed in with comments in support of increased usage of the 5.7 GHz Amateur allocation. Early in the year, the Wireless Information Networks Forum (WinForum) and Apple Computer filed petitions requesting allocation for new short to medium range, unlicensed devices. In Apple's versions, such devices might be used with directional antennas to communicate over paths up to 1 5 km in length. In part, the allocation would use portions of the 5.1 GHz Amateur allocations. A letter in support of these proposals was sent to the FCC on November 2, 1995.

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The Prez sez

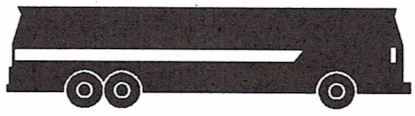
by Tom, N3LLL



As the wind starts to howl and the snow begins to blow its time to settle in and get some of the construction projects done. I know I sure have a few piled up, a whole seasons worth of hamfest stuff.

The holiday season also means that is time again for the Christmas City Special Event, I encourage all members to participate, it is our principle special event.

Congratulations Parkland school District on the return of the Space Bus Blake. The Bus is a 4/10 scale of the Space Shuttle with a state-of-the-art classroom inside. It was constructed over the past six years with over 40,000 of volunteer hours.

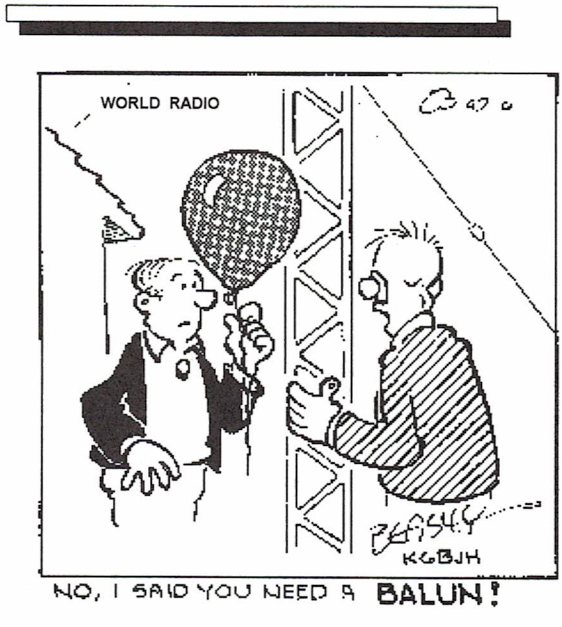


Tom, N3CXP has been instrumental in support of its construction and as well as providing Amateur Radio on the bus. I had the opportunity to tour the Bus in its Hanger at Schnecksville Elementary School. The hanger is decorated to look like deep space access is through a computer lab with a row of windows overlooking Blake.As I was talking to Tom in the Bus a Packsat message dropped into the Bus from an old Sarex friend from Australia, what a way to do a demo.

The Bus is a great lesson in perseverance, it is a credit to the vision and effort of many in our community. We will be scheduling a DLARC meeting at Schecksville in the near future to allow all of us to tour the Bus.

Happy Holidays to all

de Tom, N3LLL



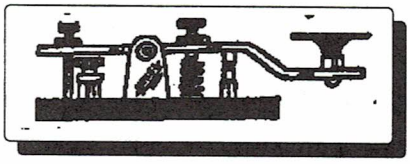
The Origins of Morse

By Tony Smith, G4FAI

(Part 3 of 3 parts)

International Morse

When the Morse code was first used in Europe, it was not entirely satisfactory, not having symbols for the accented letters used in many European languages. An international conference in Berlin, in 1851, revised the code once again, taking symbols from American Morse and three other systems, to form Continental, or International Morse -- the code which remains in use today.



As the years went on, the Morse telegraph became big business around the world, creating ever expanding work for those who manufactured or laid the lines, overland or undersea; those who made the equipment; and those who operated it -- the telegraphists.

These were a new breed of men and women having, for the first time, the world at their fingertips. In 1887, the Journal of the Telegraph reported on the seventh annual reunion of the Old Time Telegraphers' Association. Many members looked back to the pioneering days of over 40 years earlier, and there was much discussion as to who had been the first "sound" reader.

A correspondent recalled that, in 1846-7, more and more operators were "picking up sound reading, but except for conversation, this was positively prohibited on all lines. Some of us did more than talk by sound. We drummed musical rhythm on the keys, and set others to guessing what tunes they were".

All Lines Cleared

As Morse approached his 80th birthday, the telegraphists determined to honor him in a very special way. On 10 June 1871, two thousand of them converged on Central Park, New York, for the unveiling of his statue, paid for by contributions from telegraph offices throughout the US and Canada. Morse did not attend the ceremony, but that evening was present on the stage of the Academy of Music, in front of a packed audience, when, after speeches paying tribute to his achievements, the telegraph lines to all offices in North America, and many overseas, were cleared.

Using an original instrument from the Washington Baltimore line, a young lady operator sent what was, in effect, Morse's farewell message to the telegraph fraternity. He was escorted to the table to key his name at the end of the message, becoming overcome with emotion as wild applause rose from the auditorium. Congratulatory messages from home and abroad flooded in and he concluded the evening with a speech recalling his early struggles, and paying tribute, by name, to all those who had helped him bring his dream to reality.

He had not long to live. He spent the summer months on his estate at Locust Grove, Poughkeepsie, and had a telegraph line wired into his office there from the main route close by. In the winter he lived in New York, and there he died on 2 April 1872.

Father of the Telegraph

Although his fame as "father of the telegraph" was eclipsed by later developments in communications, the Morse code remains as his memorial, still alive and fulfilling its original purpose. It is also doing something which Morse could not have foreseen. It is enabling radio amateurs around the world to communicate with each other, whilst knowing little of each other's language, giving such pleasure and satisfaction that it will surely continue in use as long as amateur radio exists.

Once a year the Morse code can still be heard at Locust Grove. In honor of his memory, the Poughkeepsie Amateur Radio Club's special event station, K2KN, celebrates "Morse Day", when its signals are heard around the world. What better tribute can amateur radio give to a man to whom it owes so much?.

[Ed: Our thanks to Ken, KE2EP, for submitting a copy of this article, first printed in Introducing Morse, February, 1985.]

For Sale:

Icom IC737A, FL100 CW, SM-6 as new	$1175.00
Timewave DSP9, Latest Version	$120.00
Heathkit SB200 Amplifier...	$200.00

If interested, call **Steve, KU3S @610 398-2298**

What is ARES/RACES?

compiled by Dick Deck, KA3MOU

ARES stands for Amateur Radio Emergency Service, and can be called into action at any time. It is sanctioned by the American Radio Relay League **(ARRL)** and is independent of any Federal or local government. It uses our normally allocated frequencies and is the normal channel for-providing communications support to non-profit events and public service programs.

RACES stands for Radio Amateur Civil Emergency Service, and like its name implies, it's part of the federally mandated Civil Emergency Service. It is closely linked to the Federal Emergency Management Agency **(FEMA)** and the Pennsylvania Emergency Management Agency **(PEMA)**. An activity falls under **RACES** guidelines when an emergency is declared by the federal or local government in most respects, you won't be able to tell the difference, but differences do exist.

First off, **RACES** may employ any amateur to accomplish the task at hand. Preregistration as an **ARES** operator is not required, but is highly encouraged.

RACES operations, however demand that only **RACES** registered operators be used. Of course, this means that one must be on the county's civil defense roles to act as a **RACES** station during declared emergencies, in addition, a federally declared emergency may preempt the amateur bands and only **RACES** registered operators would be allowed operation on specific ham frequencies. So, it's good practice to sign up in both RACES and ARES. What do **DLARC** members do in the Amateur Radio Public/Emergency Services? Northampton County is in Emergency District 4. In District 4, amateurs support Red Cross, local communities and charity/non-profit organizations for both specific events and on an ad hoc basis for emergencies and weather related disasters.

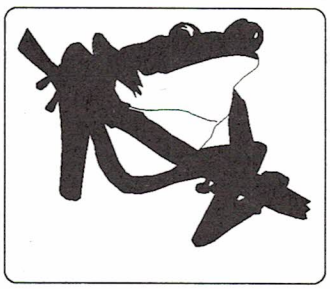
Recent events in ***District 4 were the Cystic Fibrosis Family Bike Festival, the MS 150 Bike-A-Thon, the Emmaus Halloween Parade, the Lehigh River Run, the Derriere in the Delaware, the Habitat for Humanity Bikethon the Easton Hospital Run,*** the ***Lehigh Wheelmen*** and others. What's it take? Just 4 to 8 hours of your time to volunteer per event.

If you don't have time to volunteer (We can fully appreciate that), but would still like to be part of the organization you can check in to weekly ARES/RACES nets. The Northampton County nets are Sunday at 0930 local time and Wednesday at 1900 local time on **W3OK/RPT 146.700** with an alternate of **W3PYF/RPT 145.110**. These nets are a good place to find out about public-service events and items of interest to amateurs such as license classes, VE testing, hamfests, etc. In addition, your check-in counts as a vote for amateur participation when we have to defend our use of the RF spectrum against competing interests.

The Radio Officers and Emergency Coordinators for Northampton County are Clarence Snyder, **W3PYF** and assistant Radio Officer, Dick Dech, **KA3MOU**. Incidentally, if you have any special skills or services available (such as **MD**, **EMT** training, **4WD** vehicle, snowmobile, etc.), be sure to let one of the Radio Officers know.

Go fly your kite, like Ben Franklin

After Ben Franklin came a herd of Electrical Pioneers whose names have become part of our electrical terminology: Myron Volt, Mary Louise Amp, James Watt, Bob Transformer, etc. These pioneers conducted many important electrical experiments



For example, in 1780 Luigi Galvani discovered (this is the truth by the way) when he attached two different kinds of metal to the leg of a frog, an electrical current developed and the frog's leg kicked, even though it was no longer attached to the frog, which was dead anyway. Galvani's discovery led to enormous advances in the field of amphibian medicine. Today skilled veterinary surgeons can take a frog that has been seriously injured or killed, implant pieces of metal in its muscles, and watch it hop back into the pond just like a normal frog, except for the fact that it **sinks like a stone**.

posted to packet by Paolo, IW0QNC

There comes a time

by Paul E. Wilkins, A64CY

A few years ago QST ran a contest to locate the worst- mess ham shack. They came up with photographs of disaster areas that would give a rat the willies. I have recently helped the families of several silent keys sort through horrendous collections of gear, some of it 5O year-old WW2 surplus tons of chassis, transformers, steel cases, and boxes of parts. We found such items in the basement, attic, garage, shed, and under everything else in the shack.

Many of us have "stuff' we have kept for various reasons. But there comes a time ..In one-ham families, the survivors often don't know where to start. What is it? Is it dangerous? Is it valuable? Sometimes things gather dust for years because nobody knows what to do with them. I found a 1939 Hallicrafters Super Sky Rider that had been in an attic since Gramps died for the fifty years earlier.

Could that happen to your Kenwood?

Don't leave your family in the dark. It's not fair, and it risks your prized rig being declared worthless and spirited away by a volunteer "helper." What to do? Make a list of your valuable things, and show your family where you keep it. And add the name and address of a ham friend you trust to help.

It's especially burdensome when a silent key hasn't left a valid will. That makes it difficult for the family to dispose of items until the Probate Court decides their value and ownership, which adds delay. A few years ago we had to plead safety hazard to remove a 120 -Foot lower. The lot was conveyed by joint ownership, but the tower was not, and the willing buyer wanted the tower removed as a condition of sale.

You can eliminate future burdens on your survivors by making that list, and preparing a will now. Begin by thinking things through.

From the February '95 Foundation for Amateur Radio "Auto -call" - Doug Allen, N3FHM, Editor and ARNS October '95

Classified advertisement spotted in the Stoughton, Wis., Courier Hub:

"NordicTrack for sale. New, hardly used, now $250. Ask for Chubby."

Emmaus Halloween parade

by Rick, AI3D

Members of the Delaware-Lehigh Amateur Radio Club participated in the Emmaus Halloween Parade and helped with parade security for the event.



We had a small kickoff party of hot dogs,sauerkraut, pretzels. chips, cold drinks at my garage. The weather was bad all day with rain heavy at times and with the possibility of a delay to a rain date, had cleared up just enough for the parade committee at 3:00 to decide to make a go of it.

With the parade dedicated to Steve Escoch this year, who served as Parade Chairman for many years, and had passed away a couple of months after the 1994 parade. Bob Kratz placed all the drivers in their positions, and the parade started at 7:30 and ran without any problems at all. At the end of the parade some of the drivers and their passengers went to Perkins for a end of the parade bite to eat. Next year will be the 75th year for a Halloween Parade in Emmaus and we all hope to see you, with W3OK as parade security and division leaders.

The town of Emmaus, the Halloween Parade Committee, and myself, AI3D Rick Kromer want to thank all of you for helping and a fantastic job well done. I hope to see everyone that helped at the next Halloween Parade.

Participating were:

KU3K: Bob, Control operator **KE3AW**, Bob, **N3EBH:** Tom, **N3GRH,** Dave; **WA3KIF** Mark, **N3RVH**, Jeff; **KA3MTR** Leo; **KA3AQV:** Dan, **N3QZT,** Jeff;**KA3TIU**,Bruce;**N2M2Q**,John **KA2ZQI:** Jim; **KD3TI,** Amy; **WA3MTY**, Paul, **W3JD**, Chuck, and **AI3D**, Rick

de AI3D, Rick



Telephone Interference: Cooperate and Solve

by Steve, K3DEM

Neighborhood telephone RFI is an insidious but curable problem and in no way is it the fault or responsibility of the amateur; however it is imperative that you cooperate with your neighbor. Try to make it a learning experience. I assure you that it will be for all involved.

My only real problem was experienced by one neighbor, but this person has all of the problems you will ever encounter. Why? Most problems occur due to RF entering lengthy runs of unshielded, ungrounded phone wire in the home. While the phone company installed a new "box" (plastic) outside his house and placed a filter there, that just filters RF from the telephone pole to the box.

Investigating his house, I found seven phones, one computer modem (internal), one answering machine, one cordless phone and one "tap" off the box to his garage - a run of about a hundred feet! (This ran around his house, around his pool fence and around his garage before entering same - all 4 feet above ground!)

What to do? Acquire RF cores (HF types, 3-30 MHz) and phone filters (30 db of attenuation minimum.) Good modular and hard wire models are sold by Industrial Communications Engineers in Indianapolis, Indiana. (See QST and CQ ads.) Also, Surplus Sales of Nebraska (CQ and QST) sells excellent snap ferrite cores that snugly fit around phone wire and larger split beads made for RF 59 and RG-8 coax which you can wrap several tight turns around and tape shut. Don't underestimate the effectiveness of good HF split beads in any RF case.

This is my cure for "choking" RF from phones. Telephone lines have four wires, red and green (used primarily) and black and yellow. If the last pair is unused, either ground them or use a snap ferrite core over them at the entry and outlet points. This can cure problems immediately so you may want to tackle this situation first.

Phone companies still insist on using water pipes as grounds, which they are not! It's bad enough that telephone manufactures ignore FCC advice to install a filter in the phone base, so it becomes our compounded problem to overcome.

Discourage and explain why lengthy runs create huge antennas capable of "hearing" all sorts of EMI (elecro magnetic interference. If this suggestion goes unheeded, have them consider a straighter, shorter run, then use split beads one at either end. Always test your work. If RFI is reduced by 50%, the line simply needs more ferrite, This is called decoupling lengthy phone wire.

Often telephones need only a phone filter module plugged between the incoming line and phone base. Studies made by I.C.E., Texas Communications Engineers and FCC test groups verify the worst phones for RFI susceptibility are AT&T, GE, Panasonic and Sony; the best - Radio Shack! Sometimes RF enters the cord between the phone and base. If a 6 inch phone wire is plugged in replacing the cord and the RF disappears, place a phone filter between the phone and base. A field strength meter can show RF too - Use one.

A phone filter (preferably a 60 db attenuation type) plugged between the phone line and computer phone modem will eliminate that problem.

Phones with answering machines pose the potential of RF entering the AC line. Install a filter at the phone base and try either several tight wraps of AC line around a good HF ferrite core at the base while coiling remaining AC line and taping it tightly before it plugs into the AC outlet or Radio Shack makes a good AC line filter (30 db plus attenuation) which you can utilize in lieu of the ferrite.

Note: I.C.E. makes one inch cores with 20 wraps of phone wire that you can install into the phone base. Just match the colors and either solder them or use plastic twist nuts to secure each wire. This is really where a filter belongs - in the telephone base. So called "bullet proof" telephones have two of these- one at the receiver end and one at the mike end. Simply put, all of the RF is "choked" out.

Also, try checking one phone at a time. Not all phones pick up RF equally. My neighbor's cordless phone (basically a mini transceiver and so no FCC jurisdiction) has no RFI !

Thankfully, not everyone has a neighbor like mine with all of the problems you're likely to encounter. He isn't even an immediate neighbor and has logged interference when I wasn't even on the air! I simply felt like accepting a great challenge, attacking it and succeeding.

After this experience I feel better educated and less intimidated knowing that telephone RFI can be cured, and if my offer on a home in South Alabama sitting on seven acres doesn't pan out, I may not feel quite so suicidal.

Perhaps Ernest Hemingway said it best, "Man can be destroyed, but not defeated".

73 de Steve, K3DEM

Postscript: *Steve's deal on the Alabama property did go through, so he will be soaking up sunshine by the time the snow flies in Pennsylvania this winter. It's always sad to see a good friend (more than 35 years a ham and DLARC member) move away, but amateur radio operators can never be truly separated. I look forward to many good QSO's with him during the coming winter and years ahead. Perhaps he will invite me down to check out that good fishing hole, or more likely to put up an antenna! 73 till we meet again Steve --*

de Dave, N3JGX

DLARC 1st amateur exam session

reprinted from DLARC Newsletter, dated January /February 1985

The first examinat1on session for amateurs by the DLARC under the new Volunteer Examiner program was administered at the Greystone Bu11ding at Gracedale on Fr1day evening, December 7.

Under the d1rection of Dennis Kromer, KR3U and his assistants, seven people were administered. FCC Amateur examinations.

Of the seven, four upgraded, two passed the1r code exam, and one will have to reschedule for another sess1on after further study.

Tim Snyder, N3CSF upgraded to Advanced class.

Robert "Rick" Barrow, K3WPI upgraded to Extra.

James Murphy, N3COY upgraded to Extra.

Joanne Waber, KA3MNX upgraded to General.

Congratulations to you all.

Assisting Dennis were: Joel Elston, K9TBD; D1ck Ke1s, K3YU; Norm Zoltack, K3NZ; Don Holmes, KC3II; and Bob Kratz KU3K.

Editors note: Found this in an old Newsletter from DLARC.

Contest Calendar

by Barry, KU3X, contest editor

Dec 1-3	ARRL 160 Meter Contest (CW)
Dec 3	QRP ARCI Holiday Sprint
Dec 9-10	ARRL 10 Meter Contest
Dec 31	ARRL Straight Key Night
	RAC Canada Winter Contest

Exchanges:

ARRL 160 Meter Contest = RST + ARRL Section
ARRL 10 Meter Contest = RS(T) + State, DX
Send RS(T) + Serial Number starting at 01

de Barry, KU3X

WHY NOT BRING A FRIEND TO THE NEXT CLUB MEETING, December 7 at Northampton County College.



K3FHF, Janet

Janet Marie Greenage, XYL of John Greenage WX3C was killed in an auto mobile accident in early October. They had been married 39 years.

Janet was a clerk in an orphanage for Boys in the 1950s and a volunteer at the Good Shepherd Home Gift Shop in Allentown for the past four years.

The deepest sympathies of DLARC go to John, his 5 children and 11 grandchildren.

Scholarships available

From ARRL Headquarters

The Dayton Amateur Radio Association is now accepting applications for its 1996 college scholarships. Amateur radio licensees graduating high school in 1996 are eligible for 2000 dollar scholarships.

Each year the DARA offers eight such scholarships. No specific field of college study is required. Winners will be announced around June 1, 1996.

Interested students should send a self-addressed, stamped envelope for an application to DARA Scholarships, 45 Cinnamon Court, Springboro, Ohio 45066.

Gloria Bilger

Gloria Bilger, XYL of Ray, W3TDF died on the morning of Sunday October 12 after a long illness.

Services were held on October 15th. The prayers of all the members of the Delaware Lehigh Amateur Radio Club and the amateur radio community are with the family.

To Ray, and his great family, our deepest sympathies. We knew her well, and she will be missed by all of us.

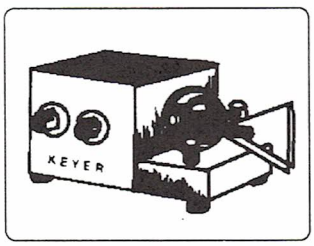
88 from all of us Gloria, Rest in Peace.

Clarence, W3PYF

Morse Requirement Stays

from ARRL bulletin 100

On October 23, the 1995 World Radiocommunication Conference, WRC-95, opened in Geneva. As described in November 1995 QST, page 106, one of the matters expected to be raised at the conference was a New Zealand proposal to delete from the Radio Regulations of the International Telecommunication Union the requirement that amateurs demonstrate Morse code ability in order to be licensed to operate below 30 MHz.



On Tuesday morning, October 31, New Zealand offered its proposal in working party 4C. While some other administrations expressed support, most who asked for the floor either opposed the change or said the time was not right and the issue needed further study within the amateur community.

Summarizing the discussion, the chairman of the working party said that most comments opposed the proposal and that he would send the matter to the working group of the Plenary, which is responsible for agendas of future conferences, to consider adding it to a future agenda in 1997, 1999, or later. This was acceptable to New Zealand.

WRC-95 is scheduled to complete its work on November 17. No conference decision is final until it has been approved in final form by the Plenary, usually late in the conference.

Amateur radio is represented at the ITU by the International Amateur Radio Union. Present at WRC-95 are IARU President Richard Baldwin, W1RU, Secretary Larry Price, W4RA, and Region 1 Vice Chairman Wojciech Nietyksza, SP5FM. ARRL Technical Relations Manager Paul Rinaldo, W4RI, is a member of the United States delegation, and other national delegations also have amateur radio representatives.

Relayed from W1AW via packet by KD3OA

Murphy strikes again

by Bruce, KA3ONZ

At about 6:10 pm Halloween night, my computer started its usual alarm whooping to tell me that the Russian space craft MIR was about to make another pass above my horizon. As I watched my screen, I saw the usual "big guns" from New England passing some messages back and forth, numerous callsigns connecting to -- or attempting to -- connect to MIR. In all of the traffic, I recognized Dan KA3ZAT trying.


Soviet spacestation MIR

I made a couple of attempts to hook up with MIR's bbs, but someone was already connected so MIR kept telling me that it was busy. Since I knew that Dan was just getting his feet wet in space communication, I decided to try to connect to him using MIR as a digipeter. I typed the necessary command and saw the immediate reply on my screen that the connection had been successful!!!!

At this point, Murphy struck with a vengeance!! We each sat in front of our computers waiting for the other to type some short message. After a couple of minutes of inactivity, I performed a "hard disconnect" so that we would not tie up MIR and others could experience the thrill that we had!!

Dan and I "hashed" things over after the pass was over and determined that things would be different next time!! Neither one of us will let that guy, Murphy in our shacks!

Seriously though, for those who find this interesting, Neither Dan or I were using any sophisticated equipment. We each were using a mobile on a power supply and an omnidirectional antenna. If the idea is attractive to you, join us!!!!!

de KA3ONZ - Bruce.

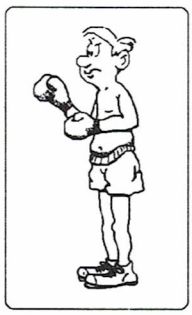


<u>Your mail label</u> has the expiration date of your membeship in DLARC... Why not send your fee to treasurer Dick Dech soon.

The 1995 AA3JU PAQSO party effort

or

"Winning is everything"



by George, AA3JU

"Winning is everything?" Many amongst my readers must think that is a terrible sort of attitude. Certainly not politically correct in any way and not something we want to teach our children. Why, with attitudes like that our kids might just grow up to be the very best at something. That certainly wouldn't be "fair" to the "tenacity disadvantaged" in our midst. And besides isn't the object to have fun?

Yes fun is the key and that is just exactly what TEAM AA3JU had this past Oct. 15th weekend. Let me tell you there is precious little in this world more fun than winning! Bringing us to this win took a lot of time and a lot of really dedicated people. And they deserve a few moments in the sun. The goal was set "Come in top score over all in the 1995 PA QSO Party" That goal was set just after the end of the 1994 contest.

For the next year yours truly had the easy job. Just completely re-wire the station adding and improving antennas and gear. Making sure that each hunk of wire had a purpose or solved a problem. Adding high voltage lines, and more advanced gear to brace against the inevitable failures. Convincing my friends and even my wife that climbing the tower would be a fun, horizon broadening experience. And of course recruiting the very best team imaginable.

What a team they were. Each a true champion and deserving of a few lines: Tad - "The morse machine" In addition to being the single smartest man I have ever met (he holds one doctorate and is working on another) He is the definition of the word gentleman and honestly the finest CW op anywhere. His fingers were a blur on the paddle and never once did he ask for a repeat.

Jeff - Our Co-Captain, and a wise choice for the job. He is a great foil for my insanity. Calm in the face of disaster. Equally well versed in repairing Murphy's damage and entertaining the kids. I knew as soon as Jeff said yes to this team we were going to win!

Randy - My old buddy. We were novices together, we were generals together we were advanced together. The master of unflappability. The only guy I could imagine sending out to the car with a battery and a straight key and have him feel honored to do it! Every day when I count my blessings to God Randy is on that list.

Bob - Hey Bob go climb the tower "OK" Hey lend us your entire station "OK" Hey Bob work phone "OK" No no Bob we meant CW "Uh? OK" Hey Bob..... "Hey Bob you were great!"

Dave - Now Dave has a serious handicap. No it has nothing to do with his wheelchair, it's just a problem getting him removed from a radio. Seems we stuck him on 20 meters about 11 am or so and threw him a pack of smokes. We came back at 6 PM and pried him loose with crowbar. He kept mumbling something about wanting to work down the pileup. We didn't understand what he was babbling about until we unplugged the headphones. Somehow even after running the band at almost 2 per minute he still left a pile 40 deep.

Bob & Missy - Missy & Bob, here's a dynamic duo. Hard to tell which is more disarming Bob's big friendly smile or Missy's sweet voice. All I know is that without these two we would have no VHF score and no one would have gone to the toilet all weekend long. Oh yes if pressed to a vote I would have to go for Missy's voice. We put her on 75 phone Saturday night and even got some craggy old four landers to give us a Q! So much for the theory that No Code Techs have no heart!

Bonnie - My wife, who I would marry all over again. Who is the very best wife any man could ever hope for. If you don't believe me fellows go ask YOUR wife if you can have ten people come over and hang out in your bedroom and ruin all television watching and telephone talking And would it be OK if you ran a linear amplifier instead of the clothes dryer. And guys even if she says OK to that go ask her to go climb your tower a few days in a row. See what she says and how you like living in the garage. I have never done anything in my life good enough to deserve the affections of this lady.

One or two of our members have accused me of operating the contest "unfairly" I guess cause we did what it took to win. Ah well so be it, sour grapes I'd say. If I did anything unfairly it was putting together such a team. THEY won this contest not me. They are the best and the definition of what I was taught America was supposed to be. (Even if Tad is Japanese) An America where when you won you got the gold medal and if you came in second you got experience. An America that wasn't afraid to be the best for fear of "offending" someone I am afraid of what I see in America today. I hope the disease does not spread to radio contesting. One can only imagine what outcome based contesting would be like.

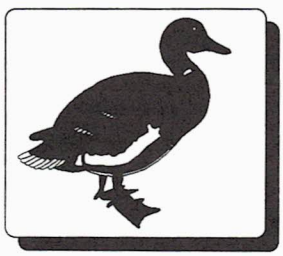
Did you win in your last contest? Well maybe you did! Each man must set his own goals. And if you attain those goals, nay perhaps EXCEED those goals you ARE a winner! You will never face a tougher opponent than yourself.

I know for myself I am a terrible taskmaster. If you want something it is yours. I suppose too that what Frakie the bartenders words are as true today as when he spoke them to me 15 years ago: ***"Argue for your limitations and they are yours"***

de George, AA3JU

No Quacking!!!

This from VE3NDX coming to us via packet radio. Joe tells about reports in the Canadian Press that tell about an Australian man was fined $2,000 for quacking like a duck on his radio transmitter. No, we are not kidding. $2,000 for going quack, quack on the air.



The fine was levied after the man pleaded guilty to operation and possession of unlicensed communications equipment. In addition to the fine, he was also ordered to forfeit the equipment to the government.

Joe adds that the guy is probably very lucky. Lucky in that some duck hunting ham didn't get him first.

from Amateur Radio Newsline 950

STUDY FAILS TO FIND EMF-CANCER LINK
from the ARRL Letter

The Council of the American Physical Society (APS) has issued the results of a study entitled "Power Line Fields and Public Health," concerning the potential dangers of cancer from electromagnetic fields that emanate from common power lines and electrical appliances.

The APS concluded that "the scientific literature and the reports of reviews by other panels show no consistent, significant link between cancer and power line fields" and "the preponderance of ... research findings have failed to substantiate those studies which have reported specific adverse health effects from exposure to such fields.

"While it is impossible to prove that no deleterious health effects occur from exposure to any environmental factor, it is necessary to demonstrate a consistent, significant, and casual relationship before one can conclude that such effects do occur. From this standpoint, the conjectures relating cancer to power line fields have not been scientifically substantiated."

The APS said that billions of dollars are being spent by states and municipalities to mitigate and litigate this perceived problem and "the burden of cost placed on the American public is incommensurate with the risk, if any."

WTC puts abolishing CW on hold

The World Radiocommunicaton Conference has put abolishing mandatory Morse Code testing on hold for at least another two years. This is a win for the proponents of keeping Morse code testing mandatory world wide.

On October 23, the 1995 World Radiocommunication Conference, WRC-95, opened in Geneva.

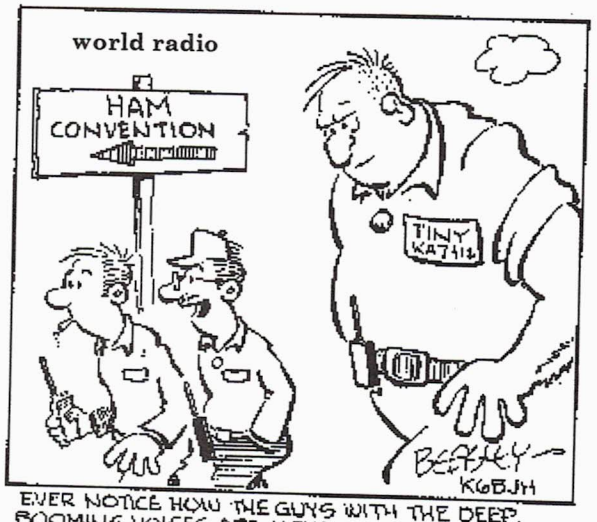
On Tuesday morning, October 31, New Zealand offered its expected proposal to abandon mandatory Morse Code testing for Amateur Radio operation below 30 Mhz.

While some other administrations expressed support, most either opposed the change or said the time was not right and the issue needed further study within the amateur community.

But the issue is far from dead. Even though most of the comments were in opposition to the New Zealand proposal, the chairman of the Working Party said that he would send the matter to the Working Group of the Plenary. The Plenary is responsible for agendas of future conferences and may consider adding it to a future agenda in 1997, 1999, or later. This was acceptable to New Zealand and the matter was put to rest for the moment.

The 1995 World Radiocommunication Conference is scheduled to complete its work on November 17. No conference decision is final until it has been approved in final form by the Plenary, usuallylate in the conference.

from Amateur Radio Newsline 951



All Amateur Radio Operators are invited to
Participate to the DLARC, RACES & ARES nets
on 146.70 W3OK/RPT with an alternate of W3PYF/RPT 145.11
W3OK trustee Rick Saeger, K3OO
The Nets are held on Sundays at 9:30 AM and Wednesdays at 7:00PM

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DLARC INFORMATION LINE 820-9110

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==1995-1996==

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CLUB MEETINGS

All regular meetings of the D.L.A.R.C. are held on the first Thursday of each month
7:30 PM at Northampton County Community College
TALK IN ON 146.70
Any comments or articles contributed to
this newsletter should be addressed to
Clarence Snyder, W3PYF, Editor..717 Porter Street, Easton, PA 18042-1548

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