Delaware - Lehigh Amateur Radio Club, Inc.

W3OK Corral NEWSLETTER

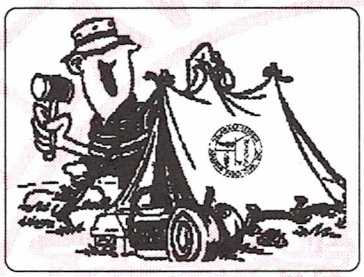
June 1997

SKYWARN TRAINING AT JUNE 5th Meeting

Field Day 1997 June 28&29

by Bob, N3QQ, Field Day chairman

It's hard to believe that **June is HERE!** There are so many facets to this special weekend that to the new ham it may seem a bit much! I really like to encourage neophytes because I think a good experience for a newbie at something like field day will make this hobby much more enjoyable.



This was my feeling after attending my first "weekend" back in 1954. It can be called a contest, emergency prep drill, or picnic but I think of it as a kind of retreat. A time where young and old, novice and experienced get together to set up and operate ham radio in the field. Maybe under the stars, or a beach umbrella, in a tent, a camper, a van, or under the roof of a pavilion. The rule is there are no rules as to where you can operate. just get out there and do it! The main idea seems to have been started years ago by Hiram Percy Maxim W1AW, the founder of ARRL.

Take your radio gear and some portable power and antennas (some food and drink wouldn't hurt) and operate away from home for a weekend just to see if you could do it in time of real emergency! Well, our gear and portable power capability has changed drastically over the years perhaps making it easier. However, the need to train ourselves for emergencies will never diminish or become easier!! We need to keep training in the use of packet, satellites, handie-talkies, computers and cook stoves! Field day is "FUNDAY" a 24 hour plus time during the last weekend in June. We will be operating in the three transmitter (3A) class again since the sunspot activity is still at minimum. We might also have a satellite station and maybe some packet on the side. If you value this hobby you'll make some time during the weekend and join us! You won't forget or regret! Please try to help for **SETUP** and **TEAR DOWN** even if you cant spend the weekend!!!

The facts:

Date: <u>June 28 and 29 1977</u>

Place: Plainfield Township Fairgrounds (route 191 at Kesslersville road)

<u>Jun 28 0800 EDT</u> meet at Gracedale Greystone building Nazareth for LOAD UP

<u>0900 EDT</u> meet at Plainfield Township Fairgrounds for SETUP

<u>Jun 29 1300 EDT</u> meet at Plainfield Township fairgrounds for TEAR DOWN And on to Gracedale for PACK UP. (Bedtime at 1800)

Skywarn

by John, N3IGA

The June 5th meeting of the **DLARC** will be on Skywarn. **Joe Miletta from National Weather Service in MT. Holly** and **Paul Toth, KB2WNZ,** who is on the technical committee at Mt. Holly will be the speakers. Paul is helping to set APRS for the NWS and will bring a demonstration for the Skywarn training.

SKYWARN

I don't know how long the meeting will last, but if you are interested in Skywarn, don't miss this meeting. You will never know when this training will come in handy since the weather is so unpredictable

The meeting will be held in **Kiva Hall** at the Northampton County College. Beginning promptly at 7:30 PM..

June 5th meeting will be in Kiva Hall. Be there on time... 7:30.. Program will take almost 2 hours.

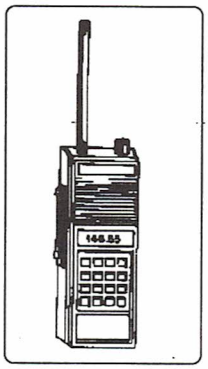
Call on 146.70 if you need help..

Care & Tips for Rechargeable Batteries

by Charlie, K3HKZ

Here are a few battery tips which will assure you the highest performance and longest cycle life from your rechargeable batteries.

1. Do not leave your radio and/or battery in the charger when not charging. Continuous charging will shorten battery life. (Don't use your charger as a radio stand)



2. Do not return fully charged batteries to the charger for an "extra boost'. This action will significantly reduce cycle life.

3. Only charge batteries when they need it. If it is not fully discharged, do not recharge it. (I recommend you purchase a second battery for multiple/ longer duty cycle applications .)

4. When using a rapid charger leave the battery in the charger for an additional 1-2 hours after the ready light appears.

5. Charge your new battery overnight (14 -16 hours) before using it. This is referred to as "initializing" and will enable you to obtain maximum battery capacity.

6. New batteries can be stored up to two years without significant cycle loss.

7. Store new/unused batteries at room temperature in a cool, dry area.

8. Batteries which have been in storage should be charged overnight.

9. Stabilize batteries to room temperature 72F before charging.. Charging below 4OF and above 104F will decrease cycle life.

10. For optimum battery life and operation use only name brand batteries & chargers. They were designed to operate as an integrated energy system.

These simple *instructions* will protect your rechargeable batteries and enhance their performance and life..

HELP DLARC

Are you planning to join ARRL or renew your current membership? Help DLARC by joining or renewing through the club.. .contact Dick Dech, KA3MOU, for details.

Repeater etiquette

Always let the repeater BEEP or drop at the end of the transmission of the person who just finished talking. (This allows the timer to reset)

Always identify your station. **ANYTIME YOU BRING UP THE REPEATER.**

Don't divulge the where abouts of HAMS who may be on vacation or away from home. (There are people with scanners out there who may want to get into the hobby with no investment)

Most Repeaters have large coverage. Be careful what you say or the person you are talking to says on the **PHONE PATCH**. You are responsible!

The Phone patch is a convenience. Use it Wisely!

If there seems to be a problem with the repeater notify the proper person immediately! Better yet when you make that call Volunteer to help with the fix!

Don't say anything on the repeater that you wouldn't repeat in front of your own MOTHER!

It takes a large investment in time and money to keep that repeater on the AIR. Be an active Club Member.

Don't be afraid the next time a work party is scheduled that you don't know enough to help. We all started somewhere.

If you don't know that what you are going to say is 100% true or accurate don't say it! (The Airwaves have EARS!)

Be the first one to offer assistance when someone is looking for Road Information.

The Repeater is not the place for a monologue. If you want to hear yourself talk, buy a tape recorder - it's cheaper.

Use the **LEAST** amount of power needed to have clear communications. That strange whining when you unkey could be a repeater 100 miles away!

Those users probably aren't interested in your side of the conversation.

You don't need to KER-Chunk the repeater on the hour to make sure it is still there! That job belongs to the little HAM who lives in the cabinet.

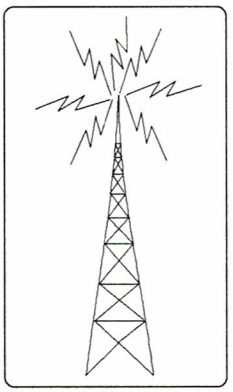
Harrisburg Radio Amateur's Club Newsletter

Bryson Leidich, N3ESH, Editor

Courtesy of John, N3IGA ACC/EPA

Tower fall survivor

from Amateur Radio Newsline



If you ever need an example of beating the odds. ..this next story may help. Considering what happened the afternoon of March 26th, the fact that 25-year-old Joseph Holley is alive is amazing. Holley, who's a professional tower climber, was involved in a freak accident in central Alabama. It's the kind of mishap that--under almost any other circumstance--should have claimed his life.

From Newsline's Southeast Bureau in Birmingham.. David Black, KB4KCH, brings us an astonishing story about a man who beat incredible odds:

From his hospital bed, Joseph Holley thinks back to the afternoon he was working 200 feet in the air on a cellular telephone tower south of Birmingham. Holley had just made sure that he was strapped securely to the tower leg.

"I checked my belt, checked my lanyard, made sure everything's secure. I released my hand from the tower, everything was fine. I stuck both hands into the pouches that hang off my workbelt to get to the hardware. The pouches are about a foot deep and as soon as my hands hit the bottom of the pouches, which was probably a full 10 seconds from the time I snapped myself into place, the belt just let go. It just absolutely let go and I began to fall." *(Holley)*

Joseph Holley's life might well have ended at this point. But this story does not end tragically. Seconds after beginning to fall and thinking he's about to die, Holley blacks out. But as it turns out, the only tower leg that has any equipment attached to it below Holley is the leg he had been working on. After falling nearly 80 feet, Holley strikes a 6-foot mesh microwave dish in his ribs. The dish catches his body and keeps him from falling further.

"I hit it and of course was unconscious as I was falling, as I hit the dish, it woke me up. I hooked my leg over the dish and was very very disoriented" *(Holley)*

While hanging on to the dish, fear sets in as Holley realizes that he's still about a hundred-20 feet up. Having sustained severe internal injuries, he loses consciousness again. Co-workers climb up to Holley and secure him to the tower. Half an hour later, rescue workers from Columbiana and Southeast Shelby county arrive.

"They came up there and hooked the rope to me and pulled me down. This was the first time they had ever done anything like this and had absolutely no experience on a tower. You could tell the persons on the tower were a bit jumpy just being up that high. We were still between 120 and 140 feet." *(Holley)*

Despite his injuries, Holley is able to climb down with rescuers helping him. He's flown by Lifesaver helicopter to a Birmingham hospital. Exactly why Holley fell remains under investigation. He says he has always paid careful attention to the condition of his safety equipment. Amazingly, Holley's doctors tell him that he may not have any permanent injuries.. .and that after 2 weeks, he may get to go home. It's all leaving Holley very thankful.

"I'm really fortunate and I don't take anything for granted. I'm really lucky at the turnout of this thing." *(Holley)*

For now, Joseph Holley continues his recovery while dealing with something else--he's experiencing nightmares about falling. Will he go back to work climbing towers for a living? That is something this very lucky man says he wants to think about.

Holley says he wonders if a manufacturer's defect in his safety gear could be to blame for his near-death experience. Meanwhile, investigators continue looking at that equipment to try and find out exactly why it failed.

(Via Newsline).

For Sale

Kenwood TM-411A/E transceiver. 440MHz

Good condition with external speaker and Tone board installed.. Manual included. This is a mobile unit complete with mounting bracket, and microphone.

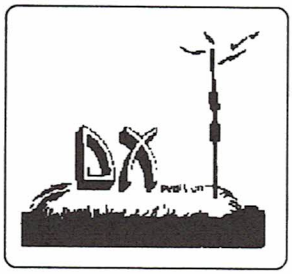
Call Clarence, W3PYF at 610 2522109..



Real DXer defined.

by George WA2RCB

Yes, **DXers** are a unique breed of people Burt. My guess is that if their wife was next door in the kitchen gagging on a piece of fried chicken bone, and there was a rare-dx station on the air at *ezactly* the same moment, 98% of the DXers would choose to let their XYLs writhe on the floor and turn screen-saver VCR *blue* first before missing the opportunity to work Kuntakintae in Lower Gibipp.



Reminds me of a funny event from a few years ago, when I was a Director in a radio club. Had a director's meeting at this guy house. After the business was over, went into this guy's shack. (He was a big-time DXer here in NJ - having worked 300-something countries) He seemed to get somewhat irritated when I did not share his enthusiasm for DX. After the 3rd attempt to get me to pay some kind of homage to him while sticking a *framed* QSL in my face from some filthy rich ham who runs a sweatshop in Puerto Rico who spends 98% of his time running to mud-huts in Africa in his Lear jet.

I then told him I did not give a rat's --- about DX. (I only did this because he was so damn adamant about DX as being as important as the second coming or something...)

Well, I thought he was going to toss me out of his QTH, but he seemed to not have the guts for that, so I retired to his living room to drink as much soda and chips he put out and laugh about this whole incident with 2 friends of mine who were there and shared my humor over this whole screwball funny incident. (he has put out several pint-size bottles of Coca-Cola.. .I had my CIA type trench coat with me, and pocketed 3 of them just for funzies...)

So Burt, there U go, DXers: Ham radio's greatest mutual admiration society. Almost as bad as contesters who run illegal power.. .birds of a feather...

de George WA2RCB

One Liners

supplied by Larry, N2OCW

1. If you throw a cat out a car window does it become kitty litter?

2. If corn oil comes from corn, where does baby oil come from?

3. When a cow laughs does milk come up it's nose?

4. How did a fool and his money GET together?

5. How do they get a deer to cross at that yellow road sign?

6. If it's tourist season why can't we shoot them?

7. What's another word for thesaurus?

8. Why do they sterilize needles for lethal injection?

9. Why is abbreviation such a long word?

10. Why did the kamikaze pilots wear helmets?

11. How do you know when its time to tune bag pipes?

12. Is it true that cannibals don't eat clowns because they taste funny?

13. When you choke a smurf, what color does it turn?

14. Do blind eskimoes have seeing eye sled dogs?

15. Why is there an expiration date on my sour cream container?

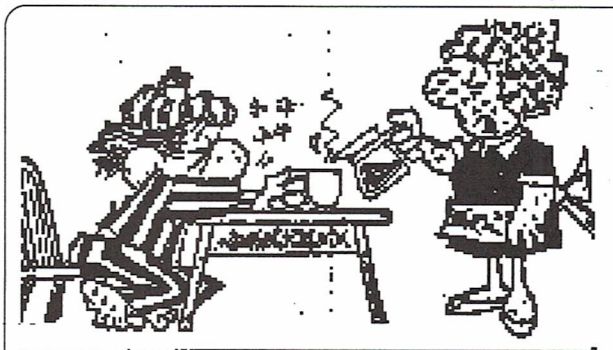
16. What do they use to ship styrofoam?

17. Why do they call it a TV set when you only get one?

18. Do radioactive cats have 18 half-lives?

19. If you shoot a mime, should you use a silencer?

Supplied by Larry, N2OCW



· Sure must have been a great meeting B

ARRL calls on FCC to privatize handling of malicious interference complaints

via ARRL Bulletin

Citing "a substantial need to improve and increase the quantity and quality" and timeliness of enforcement in malicious interference complaints, the ARRL has called on the FCC to "create a streamlined, privatized enforcement process" to handle and adjudicate the most serious Amateur Service rules violations. In a petition for rulemaking filed March 28, the League asked that the FCC change its rules to permit members of the volunteer Amateur Auxiliary to bring evidence of malicious interference violations directly before the FCC's Chief Administrative Law Judge. The Chief ALJ would be authorized to determine if the complainants have a valid case, to issue show-cause orders, and to designate complaints for hearing.

The League recommended that the FCC capitalize on the volunteer resources available through the Amateur Auxiliary to relieve the evidence-gathering burden in such cases. If the rules changes are approved, the League said it would likely assist members of the Amateur Auxiliary in preparing and submitting complaints and in presenting cases at administrative hearings. "The increased use of volunteer resources would seem to be entirely appropriate in the Amateur Service, which involves avocational use of radio only," the ARRL concluded.

While noting that most hams obey the rules, the League said Amateur Radio needs the Commission's help "in a very few, persistent, serious enforcement cases" but has not been getting it in recent years because of the FCC's staff and budgetary limitations.

"Indeed, notwithstanding the best efforts of the Commission over the past several years, there has been no resolution of the four or five most serious cases brought to the Commission's attention," the League said in its petition. Even in some of the cases the FCC did act upon, the League said the Commission did not go far enough to make the problems go away permanently. The League cited a case in New Orleans where fines against several amateurs were reduced but remain unpaid and uncollected. "There is a widespread, and growing, perception that administrative forfeitures are not collectable," the ARRL said, pointing to the complex, time-consuming method of collecting fines that is required by federal law.

The ARRL noted that while the FCC suspended one ham's license in that city in 1996, it failed to look into malicious interference charges against at least two other hams in that area. The League said examples like these send a message that the FCC won't enforce Amateur Service rules in malicious interference cases. "Malicious interference problems, if left unchecked, tend to spread and increase in intensity," the League said. The ARRL suggested that a series of "visible, successful enforcement actions" would deter rules violations and promote self-regulation.

The ARRL also suggested that some FCC policies get in the way of timely, effective enforcement. Current Wireless Telecommunications Bureau policy requires the Commission to independently corroborate evidence gathered by Amateur Radio volunteers. "The policy often acts as an absolute obstacle to any enforcement activity whatsoever," and it demoralizes volunteers who view their efforts as wasted.

While noting that malicious interference cases often attract a lot of attention within the amateur community, the League said ham radio can be "justifiably proud" of its history of voluntary rule compliance. "The overall level of compliant behavior among amateurs has not deteriorated over the years," the League emphasized, citing fewer than 10 active malicious interference cases in the US at present..

via ARRL Bulletin 20

For Sale

Cushcraft R7, 10 .. 40m $ 175.00

Timewave DSP 9+, latest software version $150.00

M2 2x14 ele 2m yagi (new) $ 135.00

Kenwood TS-790, 2/440 Sat. Radio less then 2 years old, very little used $ 1,400.00 (firm)

if interested pse call **Martin, N3DL**, at 760-9772 after 6 pm or send e-mail to **n3rca@enter.net**

Don't tailgate, wait for the beep on the repeater, it may be you who has emergency traffic

Ham radio excluded from CB enforcement bill

The ARRL Letter

At the request of the ARRL, Amateur Radio has been specifically exempted from a bill submitted April 17 by US Sen. Russell Feingold (D- Wisconsin) that would give states and municipalities authority to enforce the FCC's CB regulations. Feingold's bill, designated Senate Bill 608, originated with efforts by the Beloit, Wisconsin, City Council--responding to long-standing CB interference complaints--to pass an ordinance allowing local authorities to enforce FCC regulations. The bill is aimed at reducing radio frequency interference stemming from the use of unauthorized equipment or frequencies by CBers.

In presenting his bill, Feingold told his Senate colleagues that he has received RFI complaints over the past several years from numerous Wisconsin communities "in which whole neighborhoods are experiencing persistent radio frequency interference."

If approved by Congress, Feingold's bill would amend the Communications Act to allow state or local governments to enforce regulations that prohibit the use of CB equipment not authorized by the FCC (such as high-power linear amplifiers). As it now stands, no license is required to operate on the 11-meter Citizens Band, but the FCC does have strict requirements on the type of equipment that CBers can legally use. Feingold's bill would preserve the federal preemption of all other telecommunications matters. It excludes FCC-licensed services, including Amateur Radio, from state or local oversight.

Also at the ARRL's request, the bill calls upon the FCC to provide "technical guidance" to states and municipalities in detecting and determining violations. Those affected by a state or local enforcement decision would be able to appeal to the FCC. ARRL asked Feingold to add this provision as final safeguard for amateurs who might be erroneously prosecuted despite the bill's other exemptions for amateurs. Feingold's bill also would not preclude the FCC from enforcing its own regulations as they apply to CB.

Feingold called his bill "a common-sense solution to a very frustrating and real problem which cannot be addressed under existing law."

NJ judge rules ham interference out of his hands

The ARRL letter

A New Jersey Superior Court judge has ruled that federal law prevents him from declaring ham radio interference a nuisance. Judge Reginald Stanton made that determination in a case reported April 16 in the New Jersey Star Ledger, in which a couple sued their neighbor, Walter Kornienko, K2WK, of Lafayette, New Jersey, claiming his transmissions interfered with their telephone, TV, and garage door opener. The couple, Leopold and Karen Korins, was trying to get Stanton to declare the situation an nuisance and to direct Kornienko to cut back on his hobby. But Kornienko's lawyer claimed his client had a right to operate under a federal license and suggested the Korins do more to shield their appliances from RFI. According to the news report, Kornienko, who's been licensed since 1967, runs the maximum 1500 W PEP.

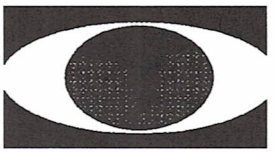
"There is no question that there has been meaningful intrusion into the Korins' home and their expectations of enjoying a reliable and reasonably high quality level of telephone and television reception," Stanton is quoted as saying in the Star Ledger report by Bill Riley.

Stanton conceded, however, that the FCC had jurisdiction and he had no authority to limit Kornienko's hamming. "If he is obeying the FCC rules and the Korins can't fix the situation in their home, that's tough and they'll have to lump it," Stanton reportedly said.

Kornienko is said to have expressed relief at the ruling. Hudson Division Director Frank Fallon, N2FF, said he'd discussed the problem with Kornienko, an avid contester. He described the area as rural, rather than suburban, and expressed the hope that Kornienko could somehow recover his legal expenses..

The ARRL Letter

Tell your friends and other amateur radio operators about the Skywarn session on June 5th. It is open to all, members or not.



Advise John, N3IGA, who is in charge of the program of any problems...

Contest calendar

by Barry, KU3X, Contest editor

Jun 14 Asia-Pacific SSB Sprint
Jun 14-16 ARRL June VHF QSO Party
Jun 21-22 SMIRK QSO Party
All Asian CW DX Contest
Jun 28-29 ARRL Field Day
Jul 1 RAC Canada Day Contest

Exchanges:

ARRL VHF QSO Party: Grid, signal report is optional

All Asian Contest: Signal report and two digit number denoting age

SMIRK QSO Party: SMIRK number and grid square

de Barry, KU3X.

STS-83 refly is a "Go " for July with SAREX on board

The ARRL Letter

Word from NASA this week is that shuttle mission STS-83--cut short in early April because of a fuel cell problem aboard the spacecraft--will be reflown in July with the **Shuttle Amateur Radio EXperiment**--SAREX--aboard! The new mission will be dubbed STS-94. The space shuttle Columbia prematurely returned to Earth April 8 without making any of the scheduled QSOs with 18 schools in the US, the People's Republic of China, and Japan. Sixteen schools want to arrange new schedules for the July mission, which will again carry the microgravity science lab. Three hams were aboard STS-83: Jim Halsell, KC5RNI, the mission commander; Janice Voss, KC5BTK; and Donald Thomas, KC5FVF. The same crew likely will be tapped for STS-94, set to launch on July 1 for a 16-day mission.

In the meantime, more QSOs of a scheduled round of ten MIREX school contacts have taken place with Jerry Linenger, KC5HBR, aboard the Russian Mir space station. Students at Holy Angels School in Dayton, Ohio, got a chance to chat with Linenger April 21. The ground station, W8DOZ, was running 35 W into a turnstile antenna. On April 23, students at Jerling Junior High School in Orland Park, Illinois--a Chicago suburb--had a 10-minute contact with Linenger. More than a dozen students got to speak directly to Linenger as an audience of 800 students and 200 visitors looked on. Nearly 2500 students in other schools also got to listen in.

Linenger and his cosmonaut flight companions, Mir-23 Commander Vasily Tsibliev and Flight Engineer Alexander Lazutkin, managed to restore one of two Elektron oxygen generators aboard Mir. The repair ended a serious problem for the Russian space outpost. The three used equipment shipped to Mir April 8 aboard a Progress resupply rocket. With the Elektron electrolysis system at least partially back in operation and the Mir's primary carbon dioxide scrubber also operational once more, the air aboard the Mir is healthier than it has been in weeks. Because the system is not producing oxygen at a rate sufficient for three crew members, however, the crew is supplementing the Mir's atmosphere with gaseous oxygen. The Mir also has a healthy stock of oxygen-generating candles to use if necessary. Wire service reports say the Mir crew has, for the time being, given up efforts to track down an elusive cooling system leak that's allowing ethylene glycol coolant to leak into the atmosphere of one spacecraft module.

NASA reportedly intends to go ahead with plans for astronaut Michael Foale, KB5UAC, replace Linenger in mid-May. Foale, who will arrive on the shuttle Atlantis, is scheduled to be replaced in September by astronaut Wendy Lawrence, KC5KII. The last US astronaut scheduled for a tour of duty on Mir is David Wolf, KC5VPF, in early 1998. The 11-year-old Mir space station eventually will be replaced by the International Space Station-a cooperative venture between Russia and the US.

The ARRL Letter

Sussex Cty Hamfest

The Sussex County Amateur Radio Club will hold their Hamfest at the Sussex county fair grounds on **Sunday, July 20**.. Location is located off Route 206, Augusta, NJ.. For further information contact

Dan Carter, N2ERH,
8 Carter Lane,
Branchville, NJ 07827
or internet at N2ERH@Juno.com.

DLARC and the Multiple Sclerosis Society

Three Events - Two Weeks

by Jeff, N3QZT

On April 13 the **Delaware-Lehigh Amateur Radio Club** provided communication support for a walk in the Lehigh Parkway in Allentown. About 1500 walkers participated in the event which followed the bridle path through the parkway for about 5 miles. The following hams from the **DLARC** helped with this event; **Mark WA3KIF, Amy KD3TI, Hal N3LVA, Paul N3UGH, Jeff N3MFT, Bob KE3AW, Mitch WA1LLD, Bruce KA3ONZ, Julie N3CSQ, Bob WF3H, Brad KA1RAH** and myself **Jeff N3QZT.**
I would like to thank **N3LWY Dave**, for allowing us to use his repeater during this event.

The following weekend **DLARC** provided communications support for the MS walk held in Hugh Moore Park in Easton as well and another MS walk being held in East Stroudsburg. Both events started at 9:00 AM so two entirely different support teams were required. The walk in Easton was attended by about **900 walkers** and followed the bike path in Hugh- Moore Park. No major problems were reported and thanks to the following hams the event ran smoothly. **W3JD Joe, W3PYF Clarence, N3LVA Hal, N3RBK Ray, N3XGE Dave, N3NVA Barry, N3UGH Paul** was Net Control and KE3AW Bob was the site coordinator.
Thanks to **N3MFT Jeff** for the use of his repeater during this event.

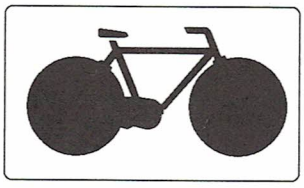
Mean while, in East Stroudsburg, the other MS walk was taking place. This was the first event that the MS Society held in this area and was attended by about **150 walkers**. Once again the DLARC was there to provide communication support for the event which followed the cities sidewalks for the 5 mile walk. The ham's that helped out at this were, **KD3TI Amy, N3ULW Glenn, WA3KIF Mark, KA1RAH Brad, WA1LLD Mitch, N3SEI Jerry** (from the EPARA Club) and myself **N3QZT Jeff.**
For this event we used the EPARA club repeater located in Bangor. Thanks to **N3ULW Glenn** for helping to secure permission to use this repeater.
Thanks to all the Hams who helped to make these events a success.

de Jeff, N3QZT

MS 150 Bicycle Race June 7-8

by Jeff, N3QZT

Once more a plea for volunteers for the **MS 150 Bicycle race** being held **June 7-8.**



The event starts in **Morgantown** and overnights in **Kutztown** then back to **Morgantown** the next day. This is by far one of the biggest special events that we help out with each year. We will be needing a large number of hams to help out (at least 30) in manning sag buses, rest stops, staff cars, and so forth. Please contact me via **e-mail** at **jeffk@enter.net** or packet via the **W3PYF** board or catch me on **146.700** or call me at home (number in club directory). Or if you want contact **KE3AW Bob.**

de Jeff N3QZT

Odd fads through the years

1794.- Farmers who market their grain by first converting it to whiskey revolt agains a new excise tax on whiskey sales.-

1833.- Rev. Henry Spaulding, a Presbyterian minister, brings seed potatoes to the Idaho territory. Luther Burbank later develops the superior "Idaho" potato.-

1869.- Henry Heinz and L.Noble begin a food-[acking company in Sharpsburg, Pa. Their first product is grated horseradish.-

1870.- Charales Hires spends his honeymoon inventing Hires's Root Beer, made with 16 roots and spices.-

1884.- Dr. John Harvey Kellogg of Battle Creck, Mi. applies for a patent on flaked cereal. The corn flake is discovered by accident at Kellogg's Battle Creck Sanitarium when some grain is overcooked.-

1886.- John Styth Pemberton invents Coca-Cola, the "intellectual beverage and temperance drink".-

1894.- Milton Hershey of Lancaster, Pa. markets the first Hershey Bars.-

1903.- In Buffalo, NY, James Lewis Kraft's partners oust him, so he rents a horse and wagon with his last $65 and brings his cheese business to Chicago.-

1991.- New wave pizza includes varieties from smoked duck to caviar.-

73 de Armando, KC4JMF

IMA LIDD

Efficiency

by Van, K3CP

"Hello, Elmer," said Ima Lidd. "It's good to see you. I have a question for you that we have discussed before, but I would like to cover it again."



"OK," replied Elmer. "I will gladly go over it again. What is the subject?"

"It's about efficiency. I would like to know what it is and how it is measured."

"That should be easy to understand. The word means to perform or function in the best possible and least wasteful manner. If you could get something to work with no waste at all, you would have one hundred percent efficiency.

"Let's look at a machine for example. It takes a certain amount of power to make it work. We can measure efficiency by the power it takes to make it run versus the power it produces. A motor is used to convert one kind of energy to another. It takes static energy (at rest) and converts it to kinetic energy (motion). If the kinetic energy equaled the static then we would have a machine that was 100 percent efficient. So, efficiency is equal to the power produced divided by the power consumed. The formula is a simple one - Eff. = Power out/Power in."

Ima asked, "What keeps the motor from being 100 per cent efficient?"

"It is not 100 percent because of losses. Not all the input power is converted to useful work due to heating caused by the resistance of the motor windings and the friction in the bearings."

"How about radio circuits? We get 1 kilowatt of power from some of our amplifiers with only 100 watts of drive power. That is an efficiency of over 100 percent."

"No, Ima. you're confusing drive power from the exciter with the power input to the final amplifier. A linear amplifier runs at about 60 percent. To illustrate this let's look at the actual power input to the final amplifier. In the above case it would take .75 amps. and 2225 volts or 1668 watts to get 1000 watts output. The exciter itself has a similar loss of efficiency in producing its 100 watts. Another example is the automobile. It is very inefficient and someday we will have to produce a different kind of engine to run our vehicles. Transformers are the most efficient machines that we use as there are no friction losses since there are no moving parts."

Ima said, "I understand. If we could achieve 100 percent efficiency, we could build a perpetual motion machine."

"Yes, that's right. Let me tell you a story that I read. Many years ago an English nobleman was trying to build a perpetual motion machine. He tried eliminating friction and heat losses, but nothing would work completely. He used the most advanced ideas without success. He did create a lot of interest in his experiments and developed a reputation throughout the scientific community. Other scientists who were working on the same problem went to visit him and observe his experiments. At first he welcomed them and had long conversations with them about their common goal. However, the number of visitors grew in number to the point that he couldn't get any work done. Many of them were just curious and had no contribution to make. No matter how much he pleaded with them to let him alone, they continued to come.

"He then relocated his experiments and equipment to a remote building on his estate. This was only a temporary solution to escaping the crowds as they soon discovered his new location.

"He finally became so angry and frustrated that he set fire to all the apparatus and the building itself. It is still burning!"

"Wow," said Ima. "That was an interesting story. Thanks for it and all the information on efficiency. I feel that I now have a better understanding of the subject." "You're welcome, Ima. I enjoy these sessions and hope that we can continue them. Keep asking the questions."

PS. In response to many questions about Ima Lidd. Ima is a YL. At least for the time being as she is getting married. She will soon become an XYL as she is marrying an electrical engineer whom she has been tutoring. His name is Henry Nolonga. Her married name will be.....

de Van, K3CP

editors note:

I have convinced Van, to allow us to rerun some of his very interesting and informational articles that have appeared in past issues..

Just the Minutes

by John, N3IGA, Secretary



The May meeting was called to order by Vice President, Joe, W3JD, at 7:30pm. There were 50 members and guests present. The motion to accept the minutes as printed in the newsletter was made by Chris, NU3L, with Norm, N3GXW, seconding. Dick, KA3MOU, gave the Treasurer's Report. The starting balance was $6,048.44. Expenses came to $884.28. That made the ending balance as of April 30 $5348.06.

Barry, N3NVA, informed everybody that both repeaters are up and running. Try out the 440 machine and see how well it's working. Joe, W3JD, read some correspondence from people to whom the club sent memorial donations.

Chris, NU3L, gave a report on Novice-Tech Classes. Everybody is interested and even staying around for CW. Looks like there will be a lot of good operators coming out of this class.

Mark, K3MP, is looking for VEs to help with testing. If you're interested, give Mark a call. VE Testing is one of the functions that keep DLARC a Special Service Club.

On Tuesday, July 8, there will be a tour of the Medivac Helicopter at Lehigh Valley Hospital. This is not a club function, but Chris, N3SIG, has set this up. Anyone interested will be welcomed on the tour.

Joe, W3JD, mentioned some important dates.

June 28 and 29 is Field Day.

August 17 is the Club Picnic.

September 27 is the Hamfest date.

Since the date for the July meeting falls on July 3 and the college may not be open, it was decided that the meeting will be held on July 10. VE session will be on July 11.

Ray, W3TDF, was the main speaker. He brought a lot of equipment to see "where did all the RF go". Since he never did this before, it was a learning experience for everyone including himself. I hope everybody left with a little more knowledge of RF than when they came, because it was really interesting.

de John, N3IGA

Treasuers Report

by Dick Dech, Treasurer

Delaware-Lehigh Amateur Radio Club Profit & Loss Statement 4/1/97 Through 4/30/97

Balance 3/1/97			$6,048.44
INCOME	Dues Arrl Misc	183.90	
---------- **TOTAL INCOME**			183.90
EXPENSES			
Insurance		327.00	
Memory Of Ethel Moscovitz & Mrs. Navarre		56.80	
Newsletters		127.20	
PA QSO		198.67	
Postage		93.00	
Renewal		23.00	
Telephone		58.61	

TOTAL EXPENSES			**884.28**
TOTAL INCOME - EXPENSES			**-700.38**
Balance 4/30/97			**$5,348.06**

de Dick, KA3MOU, treasurer

VE Test Session May 2, 1997

A series of 5 people were examined in 10 elements were given with the following results: 5 examined with 7 elements successful.

Kevin Cupples, now is N3ZHQ

Joesph Manzak now is KB3BTJ

Diana Trampler now is KC2BOW

Congratulations to all for a successful evening from the VE team of **K3MP - Mark, WZ3L - Harold, AA3IX - Carl** and **KE3RR - Frank**. Also, thanks to **K2YIY - Cary** for his assistance while waiting for his VE credentials to arrive. Thanks Cary for joining the VE team. Also, congratulations to AA3IX for his first test session. He didn't mess up the paperwork to bad (hi hi). If you are interested in becoming a VE give the ARRL a call for information.

73 de K3MP, Mark, VE Liaison

ARRL Opposes vanity license fee hike

ARRL Bulletin 22 ARLB022

Last month, the FCC proposed effectively raising the fee for a vanity call sign from 30 dollars to 50 dollars for the 10-year license term. Now, the ARRL has asked the Commission to postpone the higher fee until after all four vanity call sign gates have been opened. In comments filed April 23, the ARRL told the FCC that it does not object to the fee increase per se but said that it wants all hams to have an opportunity to request a specific call sign under the current fee schedule.

The fee increase was among those included for all FCC-regulated services--including broadcasters and commercial satellite services--in the NPRM in MD Docket No. 96-186. Under the proposal, the FCC "rounded up" all FCC-imposed 3 dollar annual fees to 5 dollars per year--the lowest fee in the new schedule. The ARRL noted in its comments to the Commission that because projected revenue from the vanity fee increase "significantly exceeds" the revenue needed to cover the costs of administering the program, a delay would be reasonable. The ARRL also asked the FCC to limit the vanity call sign fee to the minimum it needs to recoup its costs to administer the vanity program but "without rounding to a significantly higher fee." The FCC adjusts its fee schedule every year..

Sayings by my people

Stacy Rowenhorst
Creighton University

Did you ever notice when you blow in a dog's face he gets mad at you? But when you take him in a car he sticks his head out the window!

Steve Bluestone

Have you ever noticed.... Anybody going slower than you is an idiot, and anyone going faster than you is a maniac?

George Carlin

You have to stay in shape. My grandmother, she started walking five miles a day when she was 60. She's 97 today and we don't know where the hell she is.

Ellen DeGeneres

I think men who have a pierced ear are better prepared for marriage. They've experienced pain and bought jewelry.

Rita Rudner

I would love to spe[illegible] language but I can't. So I grew hair under my arms instead.



Sue Kolinsky

I'm not into working out. My philosophy: No pain, no pain

Carol Leifer

I have a great diet. You're allowed to eat anything you want, but you must eat it with naked fat people.

Ed Bluestone

The second day of a diet is always easier than the first. By the second day you're off it.

Jackie Gleason

I went into a McDonald's yesterday and said, "I'd like some fries." The girl at the counter said, "Would you like some fries with that?"

Jay Leno

I dated this girl for two years -- and then the nagging starts: "I wanna know your name..."

Mike Binder

Advertising: The science of arresting the human intelligence long enough to get money from it.

Stephen Leacock

The reason most people play golf is to wear clothes they would not be caught dead in otherwise.

Roger Simon

You have a cough? Go home tonight, eat a whole box of Ex-Lax, tomorrow you'll be afraid to cough.

Pearl Williams

I'm desperately trying to figure out why kamikaze pilots wore helmets.

Dave Edison

If it weren't for electricity we'd all be watching television by candlelight.

George Gobel

Don't spend two dollars to dry clean a shirt. Donate it to the Salvation Army instead. They'll clean it and put it on a hanger. Next morning buy it back for seventy-five cents.

Billiam Coronel

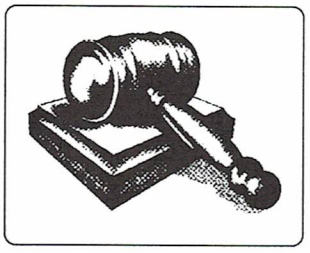
supplied by Guy, W1EUA

Tower wanted!

Tim, **KA3ZQN**, is looking for a small light weight tower. 20 to 30 feet. If you have something to get rid of give him a call @ **(610) 253-7185**

The Prez Sez

by Tom, N3LLL, president



The communications technology explosion is all around us everywhere you look people are using devices we could only dream about twenty years ago. As the world around us has progressed have we amateurs progressed as far technologically? I do not think so. Our hobby is at risk of being supplanted by modern communication technology. Just look at packet, Clarence has recently commented the packet BBS he supports is seldom used, has it been supplanted by the internet?

How about technical innovation the amateur radio community, how many of you built something lately. If you said no, you are probably in the majority. I had a rare opportunity to visit the basement of **Andy / W3ECT** and see a tube rig he built in years past from scratch. The workmanship was exquisite, it was built with a level of craftsmanship that may be lost in the future.

Amateurs in the old days were trash collectors, old television chassis were great sources for parts. Tube sockets, capacitors and transformers were fair game. They collected anything anyone else would discard. Why, because new parts were expensive and most amateurs had more time than money.

I got into amateur radio in order to build things and broaden my electronics background, believe or not to talk to other people, although now that I am here I enjoy that to. I set out to collect enough tools, parts and test equipment to make and support the rigs in my shack. I did not want to let modern technology get in the way of my ability to fabricate useful projects.

There are many tools that are available by staying one generation behind the current state of the art. The article in the last QST, "Hints and Kinks" page 72 May 1997, was an excellent example on how to get started making your own printed circuit boards. The HP plotter listed in the article was purchased at the Trenton Computer Fair for $25 the printed circuit layout software is free. This is just one example how, with a few tools, you can make professional looking state of the art projects at home. If you have not built anything lately its not to late, this is Hamfest season. If you need some help there is still a few of those elmers like Andy around.

Something to think about

supplied by Chuck, N3LAI

* If a mute swears, does his mother wash his hands with soap?

* Is there another word for synonym?

* Isn't is it a bit unnerving that doctors call what they do "practice"?

* When sign makers go on strike, is anything written on their signs?

* When you open a bag of cotton balls, is the top one meant to be thrown away?

* Where do forest rangers go to "get away from it all"?

* Why isn't there mouse-flavored cat food?

* Why do they report power outages on TV?

* What do you do when you see an endangered animal that is eating an endangered plant?

* Is it possible to be totally partial?

* What's another word for thesaurus?

* If a parsley farmer is sued, can they garnish his wages?

* Would a fly without wings be called a walk?

* Why do they lock gas station bathrooms? Are they afraid someone will

clean them?

* Why do people who know the least know it the loudest?

* If the funeral procession is at night, do folks drive with their headlights off?

* If a stealth bomber crashes in a forest, will it make a sound?

* If a turtle doesn't have a shell, is he homeless or naked?

* When it rains, why don't sheep shrink?

* Should vegetarians eat animal crackers?

* If the cops arrest a mime, do they tell him he has the right to remain silent?

* Why is the word abbreviation so long?

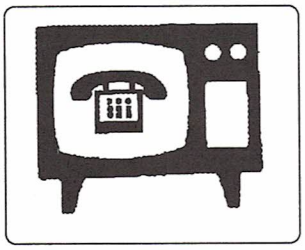
* When companies ship Styrofoam, what do they pack it in?

New media systems

New TV Standard Doesn't Compute

by Joe Chuk, W3JD

Several columns in this space have discussed the technology for broadcasting digital television (DTV) that was finally standardized last December. At least, everyone thought it was standardized. The FCC has already released a list of assignments for a second channel for each television station to begin DTV transmissions, There's a timetable for DTV rollout that requires network stations in the top ten markets (that includes ours, Philadelphia) to begin digital broadcasts by May 1, 1999, with the next 20 markets to follow by November 1, 1999.



The direction seems pretty clear for the broadcast industry. That's not the case, though, with the computer folks. To many of them, the picture format "standard" that is part of the Grand Alliance system the broadcasters are tooling up for is anything but one. Compaq, Microsoft and Intel have agreed to cooperate in marketing digital television receivers that make use of progressive scanning, rather than the interlace scanning that is still allowed for in the Grand Alliance system.

The PC industry plans to market three kinds of digital television receivers: The first is a standard PC, which, for about $100 can be converted to a digital television set. These are expected to go on sale in 1998. The drawback to this option is the relatively small size of the screen.

The second type will be a big-screen video display device with an internal PC. The Compaq/Microsoft/Intel alliance calls this "PC Theater," a combination of entertainment-style television and interactive computing.

What is expected to be the most popular product constitutes the third option, a basic TV/PC appliance. This won't have a keyboard or peripherals or a hard disc to store files. It will be used with a remote control like today's TV sets, and will be proceed around $500. Unlike today's computer products, it will be software upgradable.

The computer companies' recipe for success is to beat the consumer electronics manufacturers (who are aligned with the broadcast industry) to market with the new receivers. They plan to have 20 to 50 million PCs capable of decoding DTV in homes by 2005, which is one year before broadcasters will be turning off their analog transmitters. Public estimates of the consumer electronics industry place set sales at about one million by 2005.

The computer industry's stance creates a problem for broadcasters who choose to send out digital pictures in an interlaced format. Such transmissions simply will not be decoded by the progressive-scan receivers.

The battle lines have been drawn. In not determining a picture format with the transmission and compression standards they approved, the FCC left it up to the marketplace to choose what picture format will prevail. The FCC took a similar hands-off approach to a standard for stereo AM radio, with disastrous results: The wait for market consensus was so long that there is little left of a market for AM radio itself. Since the transition to digital television broadcasting has been mandated by the FCC, however, the cases are not parallel. There will, in fact, be a picture standard of some sort. We just have to wait and see whether the computer industry can make good on its promise to flood the market with inexpensive DTV-capable receivers. Doing so will certainly spell victory for them, leaving the broadcasters with little choice but to sent out compatible signals -- making progressive scanning the de facto standard

. ***de Joe, W3JD***

DLARC Hamfest plans

Yep, we are going to have a hamfest. Actually it is a combination of our 50th Anniversary, with a Hamfest and Picnic thrown in. So, bring your tailgate picnic lunch preparations, along with your sale items. Now the particulars:-

DATE = Saturday, September 27, 1997
LOCATION=Schnecksville Fire Company , Rt.309, 5 Mi. N. of US.22
Admission= $1.00 per person.
SPACES = $2.00 each, (includes one admission). No Indoor rentals, No electric hookups,

No fliers, No prizes are being solicited. Notification will be in all major magazines. We would like to see hundreds of club members, with their families, to socialize. At this time there will be no food concession, so be sure to come prepared. If anyone has an 'in' with the weather men, how about ordering us a nice day!!

de Ray(W3TDF) & Tom(N3LLL) Co-chairmen

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 Chris Hornaman, NU3L
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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==1996-1997==

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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
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717 Porter Street, Easton, PA 18042-1548

visit our web page

http://www.kutztown.edu/faculty/chuk/dlarc/

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