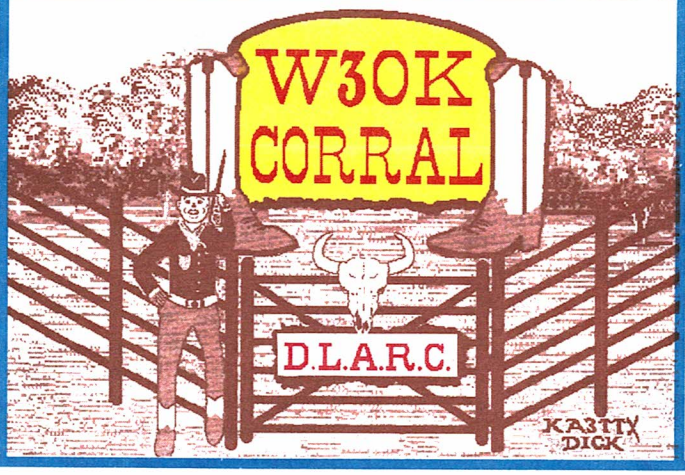
DELAWARE - LEHIGH AMATEUR RADIO CLUB, INC. W3OK

September 1996



SPECIAL SERVICE CLUB ARRL

ARRL Affiliated Club

DLARC's 50th Year Celebration

Saturday, October 5th

by Van, K3CP

To celebrate the fiftieth year since the formation of the Delaware Lehigh Amateur Radio Club we are going to have a banquet. This is not going to be an ordinary banquet. It will be a 4 course family style dinner with all the food you want . It will be held at The Terrace Restaurant in Walnutport, Pa. Route 145. Your committee is going all out to make this banquet one that you will not want to miss. We will have a prominent after dinner speaker. His name is **Jim Chiddix**. He is a Senior Vice President of Technology for the Time-Warner Corporation.



There will be a cash bar at 6:00 PM and dinner will be served at 6:30 PM Now the menu:-

Fruit cup	**Tossed salad**
Roast beef	**Roast turkey**
Baked ham	**Baked potato**
Filling	**Corn nuggets**
Green beans	**Marble cake and ice cream**
Bread and butter	**Coffee, tea and sodas**

All you want to eat. Now for some more good news. The cost for all this is only **$10.00 per person.** It's for members and their spouses only. At these prices we are expecting a large turnout and there will be a limited number of tickets available so get your tickets early. See our treasurer, **Dick Dech - KA3MOU for tickets.** If you can't get to the next club meeting call him at **837-1585**. Don't put it off or you may miss this gala Saturday night out with many of your friends.

de Van, K3CP Committee Chairman

Map with directions inside this newsletter

Ron N3RS to speak September 5th

by George, AA3JU

Well the Olympics are over for another 4 years. And unfortunately I could not get Carl Lewis or one of those cute lady gymnasts to speak for us at our meeting. But I did get the ham radio contesting equivalent of a gold medalist, **Ron Sigismonti N3RS** will be our featured speaker on

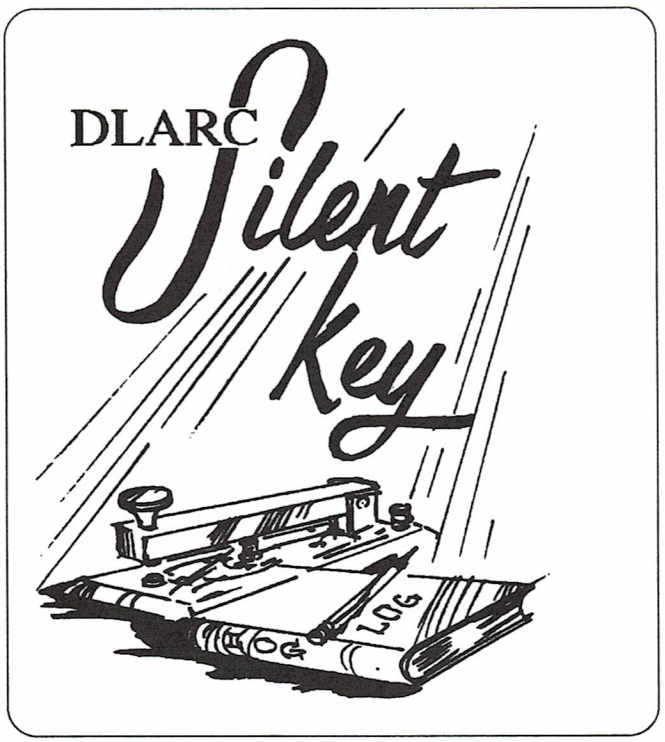
Sept. 5th, 7:30 PM at NCC in Kiva Hall.

Sig is going to give us his personal tips for winning and improving our contest scores from PA QSO party to CQWW. Novice and beginner alike are certain to glean important information from this man. The N3RS contest station regularly rocks the world with it's omnipresent signal during all the major contests. Sig has labored long and hard for years to develop his winning strategies and techniques. And he is going to tell us HOW TO DO IT! I can't imagine a single reason to miss this presentation.

Aside: Would you like more information on a subject? Have a hankering for an expert to come in and explain something in depth? TELL ME about it. Also if you are doing something interesting in HAM radio let me know we would like to have you come tell it to the club.

de George, AA3JU, Program Chairman

Call in on the EMA, RACES, DLARC NETS on Wednesdays at 7:00 pm and Sundays at 9:30 am.



Lee Toman, W3BIM

LEE TOMAN, W3BIM (ex W9BIM), became a **SILENT KEY,** on Saturday, July 27, as a result of a massive heart attack. The service was private, and was buried in Cleveland,OH. Lee was 76 years young, and resided with his wife Sue at the Country Meadows Retirement home near NCCC. He was a member of RF Hills ARC and Perkiomen Valley ARC, QCWA Chapter 17, as well as the Delaware Lehigh Amateur Radio Club.

Lee was employed for 28 years by Philco, later Philco/Ford. In addition he spent 5 years with American Electronics Lab, Chalfont. One of his patents was for a TV-Tuner while working for Walter Corp, before going with Philco .

73 Lee from all of us

The ARRL Letter Electronic Update July 26, 1996

* **Robert Josuweit, WA3PZO,** Philadelphia, Pennsylvania, won the fifth annual Philip J. McGan Silver Antenna Award, which goes to an ARRL member who demonstrates public relations success on behalf of ham radio.

TWA 800: lessons learned

The ARRL Letter Electronic Update 8 August

Some 125 hams from the Greater New York City-Long Island vicinity contributed more than 2500 volunteer hours to support recovery operations in the wake of the TWA Flight 800 disaster on July 17. Although the recovery effort continues, Amateur Radio support--which was primarily on behalf of the American Red Cross--concluded during the last weekend in July. "I hope all who assisted with the Flight 800 incident remember that it was only because of their tireless efforts that the job was done," said Walt Wenzel, KA2RGI, the Region IV RACES officer for the New York State Emergency Management Office (and Babylon, New York, ARES emergency coordinator and radio officer). Wenzel also offered some lessons learned from the now-concluded recovery support effort. Among them:

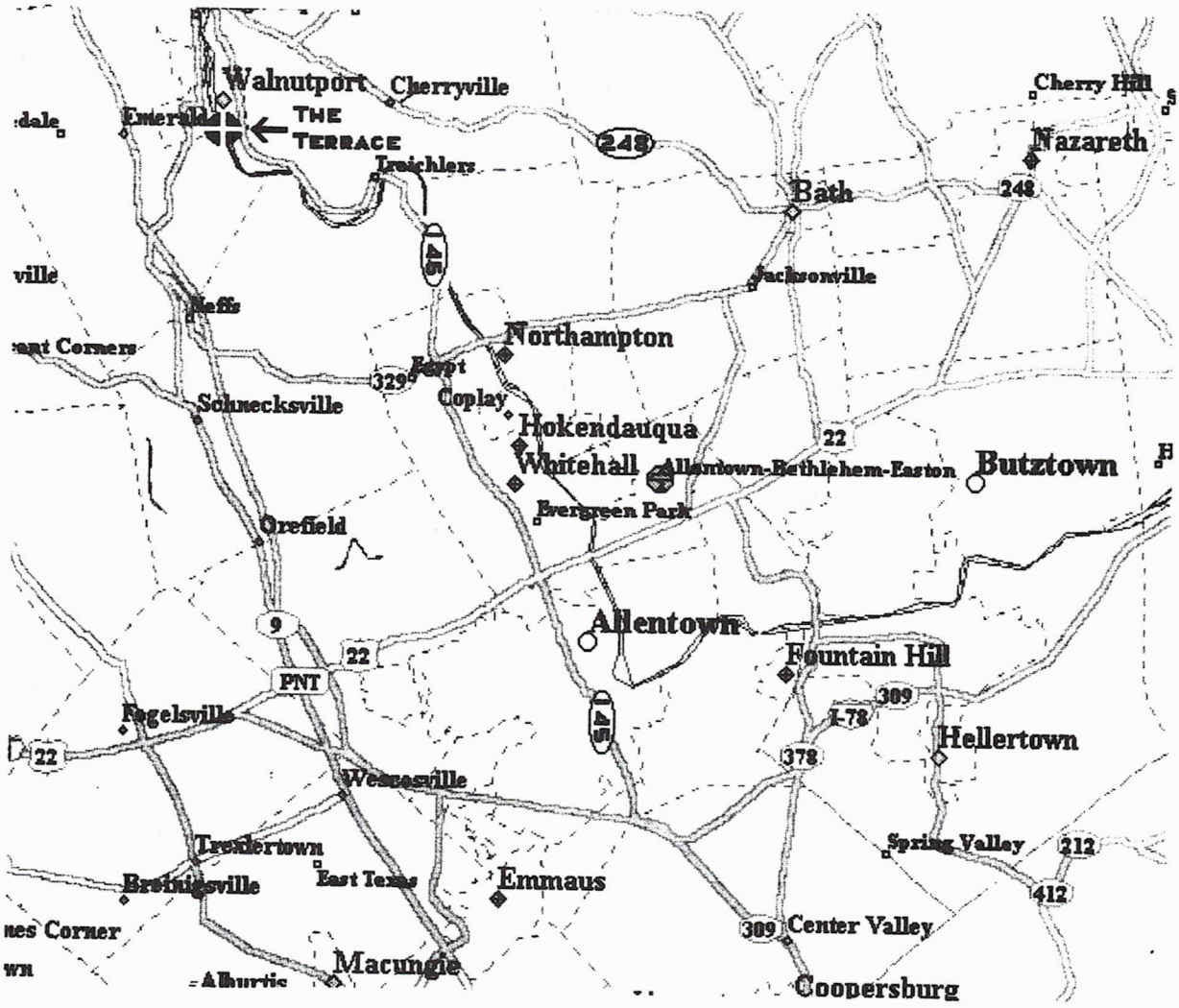
You can't always count on 2-meter repeaters alone to provide coverage (the Flight 800 recovery effort, in fact, relied on a 70-cm repeater). Also, keep a database of available equipment that can be loaned to operators who turn out. Wenzel reminded prospective volunteers that while duty shifts usually are 8 hours, they often can be 10 or 12 hours long. "People have to remember that having two batteries does not mean they have long-term power for hand-helds," he said.

Darlana Mayo, KB2EPU, of Westchester County, New York, an assistant EC who was involved in the crash recovery, said previous drills and training didn't help much when the ham volunteers confronted the reality of the situation. "Nothing had prepared us for TWA. Nothing could have prepared us for this," she said. Mayo had some advice of her own. "Don't try to be Superman," she recommended. Volunteers should know their limits and not try to stay on duty too long. "You get tired and make mistakes," she said. Both Wenzel and Mayo stressed flexibility, too. Be ready when asked to step into an assignment, but don't be surprised if plans suddenly change. "There are always going to be a few people standing by waiting for an assignment," Wenzel said. He also said volunteers might be serving several agencies with differing requirements, so they have to be on their toes.

And both agree that coordination is key. "Coordinate, coordinate, coordinate with other ECs," Mayo said. Wenzel said individual volunteers also must coordinate their involvement with those in charge and "not just show up to assist." Both also recommended that volunteers not make statements to the media.

Even those with little or no public service experience can be valuable in an emergency situation, Wenzel said. "Do not think because you have not been involved for long with emergency communications or Amateur Radio that you cannot assist," he said. "Most people that can assist are new and are learning, and if you have checked into club nets and ARES or RACES nets, then you have the basics needed to assist."

Overall, Mayo said hams did "a fantastic job under the circumstances" during the Flight 800 recovery effort.



50th Anniversary Dinner location for October 5th

Map by Van K3CP

Operate W3OK in this Year's PA QSO Party

by Bob, KE3AW

Did you like the Field Day operation, erecting the antennas, establishing the stations, operating a station away from home?

Are you looking for a place to operate the **PAQSO Party** on Saturday, October 12 and Sunday, October 13?

W3OK will operate during the **PAQSO Party,** and DLARC will combine the **PAQSO Party** station operation with a very active demonstration of amateur radio. The station will be set up at the **Bushkill Township Elementary School** (north of Nazareth) during the school's Science Day on Sunday.

We are looking for club members interested in helping set up station operation on Saturday morning, operators during the **PAQSO Party**, and help in disassembling the station on Sunday at the close of the event.

We see this as a good chance for holders of all license classes to operate on HF within General, Advanced, or Extra bands, depending on the Control Operator present. We also can show hundreds of people attending the Science Day what amateur operators do. The bands will be busy! To do this, however, we need your support.

October 12-13 will be here before we realize it! If you are interested, contact **Ken, N3IYX, Ray, W3TDF, or me.**

de Bob KE3AW

Public Information officer

This is the fourth in a series of ARRL Appointments prepared by John, N3IGA, ACC/EPA

Public Information Officer (PIO) is appointed by and report to the ARRL Section Public Information Coordinator (PIC) generally upon the recommendation of an affiliated club and with the approval of the Section Manager. PIOs are usually club publicity chairperson and must be full ARRL members. Good "grass roots" public relations activities involve regular and frequent publicizing of amateur activities through local news media plus community activities: school programs, presentations of service clubs and community organizations, exhibits and demonstrations, and other efforts which create a positive public image for Amateur Radio. The purpose of public relations goes beyond column inches and minutes of air time. Goals may range from recruiting potential hams for a licensing course to improving public awareness of amateur's service to the community.

PR activities must be well-timed and well-coordinated within the amateur community, so that clubs, Elmers, instructors, and so on are prepared to deal with the interest the PR generates.Special duties of the PIO are:

A. Establish and maintain a list of media contacts in the local area; strive to establish and maintain personal contacts with appropriate representatives of those media.

B. Become a contact for the local media and assure that editors/reporters who need information about Amateur Radio know where to find it.

C. Work with Local Government Liaisons to establish persona contacts with local government officials where possible an explain to them, briefly and non-technically, about Amateur Radio and how it can help their communities.

D. Keep informed of activities by local hams and identify and publicize those that are newsworthy or carry human interest appeal.

E. Attempt to deal with and minimize any negative publicity about Amateur Radio and to correct any negative stories which are incorrectly ascribed to Amateur Radio operators.

F. General advance publicity through the local media of scheduled activites of interest to the general public, including licensing classes, hamfests, club meetings, Field Day operations, etc.

G. Keep the section PIC fully informed on activities and place PIC on news release mailing lists.

If you are interested in helping other hams with problems of RFI or just giving technical information, next month's article is the one you should read. Next month's appointment is on Technical Specialist.

de John, N3IGA ACC/EPA.

Contest calendar

by Barry, KU3X, Contest Editor

Sept 7-8	All Asian DX Contest, phone
	LZ-DX Contest (CW only)
	North America CW Sprint
Sept 11-13	YLRL Howdy Days
Sept 14-15	Worked all Europe SSB Contest
	Radio Club de Panama XXV
	North American and Canadian Is. Contest
Sept 14-16	ARRL September VHF QSO Party
Sept 15	North America SSB Sprint
Sept 21-22	Scandinavian CW Activity Contest Sept
28-29 1996	CQ WW RTTY Contest
	Scandinavian SSB Activity Contest

Exchanges:

All Asian DX Contest: OM's = RST + age;
YL's = RST + 00
LZ-DX contest: RST and ITU zone
VHF QSO Party: Grid square locator, RST optional
European DX Contest: RS, serial no. and state

de Barry, KU3X

Hey Taxi!!!

Taxi! Taxi! I am generally shy about asking cabdrivers to slow down, but when one went through his third red light and careened around a corner, I could keep silent no longer.

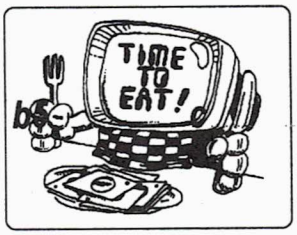
"Excuse me," I ventured, "would you mind slowing down a little?"

The driver looked back at me,

"Whatsa matter?" "I've been in two cab accidents already," I protested.

"That's nothin', he said proudly. "I've been in over a hundred!"

Don't forget the Delaware Lehigh Amateur Radio Club 50th Anniversary Dinner on October 5th. Contact Dick, KA3MOU for tickets. Limited number are available



The Future of ARES/RACES .....?

by Mark, WA3KIF,

DEC Northampton-Lehigh Counties

The following is from an article written by Howard Gilpin, W3SRU which appeared in a newsletter from Lee County, Florida. The article is his response to "ARES-CHANGE IS INEVITABLE" (QST, February, 1996).

This newsletter was given to me by Jim, KA3UQP, with the question --------

"Is this the future of amateur radio in ARES/RACES?"

While there still are, and probably will be, a number of roles for amateur radio in Civil Defense related communications, it is progressively being subordinated by the sophisticated, hi-tech, communications systems ad techniques being employed today by Emergency Management agencies throughout the country. These include 800 Mhz trunked repeater systems, satellite voice and digital communications systems, etc. In addition, many served agencies such as the Red Cross, have VHF, UHF and non-amateur band HF communications equipment. None of the above mentioned means of communications require an operator's license, therefore anyone authorized may use them. (A natural for amateur radio operators).

The article was written by an Emergency Management official, who also happens to be an amateur radio operator. He goes on to say that there are many other roles that amateurs can perform within served agencies in addition to communications and that it has been found that hams in general are better qualified to perform them than the average other volunteers.

Fortunately, Emergency Management, RACES/ARES in Lee County (Florida) had started this new track for amateur radio participation at about the same time that the article (QST, Feb., 1996) was published. At the EOC, hams are being trained to use the various non-amateur hi-tech communications systems that are available ... "

WA3KIF response----

As communications technology progresses, it becomes easier and less expensive, two important factors which permit increased use by the public. Cellular telephones, the most widely used communication system by non-hams, provide excellent and reliable service. The operators, who need no license thus no knowledge of communications procedures etc., are capable of using their equipment to meet their needs. However, should these operators meet with a disaster or large scale emergency situation, they may lack the equipment to sustain extended communications, or the ability to repair/adapt equipment under these conditions. They may also lack the experience in understanding how to "handle messages" related the emergency situation.

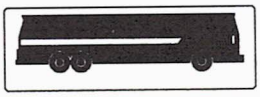
I agree with the authors of both the QST article and W3SRU that there exists alternate methods of communication and I also agree that amateurs need to be exposed to these alternate forms of communication, however I feel very strongly that amateur radio operators provide an ESSENTIAL service in emergency situations. Their skill, knowledge and experience is invaluable. Amateur operators are dedicated to their job in the field. They do not have to divide their time between/among medical, logistics or other tasks that others must perform.

I wish to thank Jim for steering this article in my direction. I have the opportunity to offer my opinion on the subject in this format and I invite you to share your comments or opinions regarding this subject via packet, internet, the next newsletter or discuss with me or others on the air.

de Mark, WA3KIF.

Drivers License?

A passenger on the bus I drive was telling all the other riders how proud she was to finally be getting her driver's license.



"No more waiting in the cold for buses!" she proclaimed.

"No more being late!"

Then she leaned over and asked me to please let her know when we reached the stop for the Department of Motor Vehicles.

"I hope you don't mind," she said, "but my vision isn't good enough to read the signs."

Remember PAQSO Party is coming soon be ready!

August 2nd, 1996 VE Session

At this session, four candidates took a total of seven elements. There were three new licences and one upgrade...

Edward Pitosky, N3AHE	**upgraded to Extra**
Allen C. Conklin	**new Technician**
Abbie M. Bednar	**new Novice**
Jonathan Bednar	**new Novice**

Congratulations to a well-prepared group of candidates, who passed every test they came to do, and particularly to **Jonathan and Abbie, aged eight and eleven** respectively.

The VE's at this session were: Ray, **W3TDF**; Chris, **NU3L**; and Bill, **K3ANS**. Thanks for running the session, Ray.

August 4th, 1996 Hamfest VE sessions

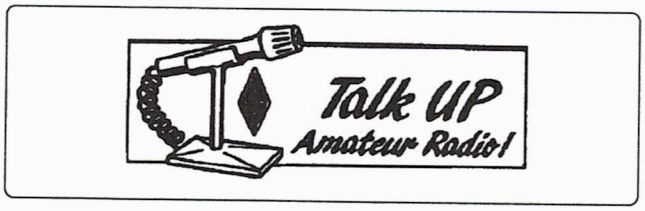
At the two hamfest sessions, a total of 31 candidates took a total of 43 elements. There were eight new licences, and five upgrades...

Daniel J. Condon, K7DND	**upgraded to Advanced**
David A. Larabee, N3WOD	**upgraded to Advanced**
Mark E. Schroder, N3XCM	**upgraded to Advanced**
Leonard J. Barish, N2BSC	**upgraded to General**
Joshua B. Parris, N3VJA	**upgraded to Tech Plus**
Arnold F. Traupman	**new Novice**
Dennis T. Balazs	**new Technician**
Juan C. Herrara	**new Technician**
Larry J. Hilgner	**new Technician**
Darlene J. Lee	**new Technician**
Keith W. Meserole	**new Technician**
Cynthia L. Sprusansky	**new Technician**
Norman Stout	**new Technician**

The VE's at these sessions were Greg, **N3MTU**; Eddie, **W3APE;** George, **AA3JU**; Daniel, **KA3AQV**; Andrew **WV1B;** Chris, **NU3L**; and Robin, **WA3T.**

Thanks to all the VE's, who gave up their bargain-hunting time to serve the candidates, and especially to Greg and Andrew, who served at both sessions.

73 de Robin, WA3T.



Novice/Tech classes to start

Monday September 16th.

by Chris, NU3L

Free classes for the Novice & Technician licenses will start on **Monday, September 16** and continue for 10 weeks. Classes will be held in the **Graystone Building at the Gracedale Complex near Nazareth, PA**.from **7 to 9 PM**. At each session 1 hour will be devoted to theory and 1 hour to Morse code practice.



For a complete information package please have potential students call the DLARC telephone answering machine at **(610) 820-9110.** After the messages are finished they should leave their name, complete address, phone number and a brief message.

While code is not required for all license grades students should expect us to strongly encourage them to learn CW. For those wishing to purchase a text in advance, we will be using **"Now You're Talking"** published by the American Radio Relay League.

de Chris, NU3L

Easton Hospital Run 1996

by John, N3IGA

You could not ask for a better day for the annual Easton Hospital Run/Walk.It was sunny with temperatures in the mid-60s. A perfect day to run. DLARC came through again providing communications for this annual event.

The follow participated in the event: John, **N3IGA**; Clarence, **W3PYF**; Jeff, **N3QZT**; Brad, **KA1RAH;** Bob, **KE3AW**; Malcolm, **N3XRL**; Scott, **N3SQF**; Woody, **KA2QZI**; and Amy, **KD3TI,** riding in the ambulance.

I want to thank all who volunteered their time and help to make this another sucessful event for DLARC and Easton Hospital. Easton Hospital appreciates the fine job that DLARC does every year in making their run a safe event. Hope to see you all next year.

de John, N3IGA

New RF standards

from ARRL bulletin 50

New FCC RF safety standards effective **January 1, 1997**, could affect the way some hams operate, perhaps especially those using vehicle-mounted antennas. As a result of a Report and Order adopted by the FCC on August 1 (ET Docket No. 93-62, Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation), Part 97 will require hams running more than 50 W PEP to conduct routine RF radiation evaluations to determine if RF fields are sufficient to cause human exposure to RF radiation levels in excess of those specified. "Measurements made during a Commission/EPA study of several typical amateur stations in 1990 indicated that there may be some situations where excessive exposures could occur," the FCC said in ending the blanket exemption for Amateur Radio. Amateur operation at power levels of 50 W PEP or less is "categorically excluded" from the exposure requirement in most cases. Where routine evaluation indicates that the RF radiation could be in excess of the limits, "the licensee must take action to prevent such an occurrence," the Report and Order stated. The FCC said this could mean altering operating patterns, relocating the antenna, revising the station's technical parameters--such as frequency, power or emission type--or "combinations of these and other remedies."

"Exactly what is involved in conducting a 'routine RF radiation evaluation' is not yet clear," observed ARRL Executive Secretary David Sumner, K1ZZ, adding that the FCC has promised to release a revised OST/OET Bulletin Number 65, "Evaluation Compliance with FCC-Specified Guidelines for Human Exposure to Radiofrequency Radiation." The League is now studying the 100-plus page docket, to see if the League should seek reconsideration of any aspects of the FCC decision. Sumner noted that the FCC expects it will not be difficult for most amateur stations to show that the specified limits will be met.

In the Report and Order, the Commission adopted Maximum Permissible Exposure (MPE) limits for electric and magnetic field strength and power density for transmitters operating at frequencies from 300 kHz to 100 GHz. These MPE limits are generally based on recommendations of the National Council on Radiation Protection and Measurement (NCRP) and, in many respects, are also generally based on the guidelines issued by the Institute of Electrical and Electronics Engineers Inc. (IEEE) and subsequently adopted by the American National Standards Institute (ANSI) as an ANSI standard (ANSI/IEEE C95.1-1992). The Commission used the 1992 ANSI/IEEE standards instead of the 1982 ANSI standards that had formed the basis for the existing rules under which Amateur Radio stations were categorically exempted.

Sumner said that for high-power mobile operation and for operation with indoor antennas, particularly in apartment buildings and other situations where there is "uncontrolled exposure" to neighbors and the general public, "amateurs may well have to make changes in how they operate." He said the ARRL Lab staff and the RF Safety Committee will be evaluating the new requirements.

From ARRL Bulletin 50, 08/06/96

Phil-Mont Mobile Club gets new call

The ARRL Letter August 9, 1996

W3TKQ becomes **W3AA:** The Phil-Mont Mobile Radio Club's demonstration station, **W3TKQ,** at the Franklin Institute Science Museum in Philadelphia acquired the call sign **W3AA** on July 30 under the vanity call sign program. **W3AA** had belonged to Harold Fox, a club member who died recently. His wife, Marian, **WA3YJR**, suggested the move. Vanity Gate 1A, permitting such in memoriam call signs for club stations, opened July 22. The first radio contact using the new **W3AA** call sign was made with **W3BBB,** the ARRL Atlantic Division's "Grand Old Ham" of 1993, who in 1962 built the station's first glass-enclosed ham shack at the Institute, and who has been associated with the station longer than any living amateur. The club station originated at the Institute in 1952. W3AA may be reached at 215-448-1139.

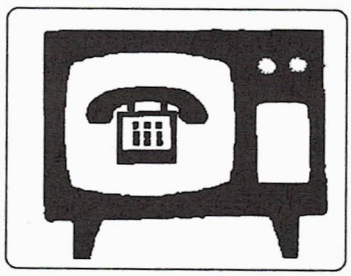


For more information, contact the station's trustee, Steve Hoch, WU3I at w3aa@fi.edu, or set your browser to http://sln.fi.edu/tfi/exhibits/w3aa.html on the World Wide Web.

Technology at the Olympics

by Joe Chuk, W3JD

Technical innovations, wherever they appear, are always of interest to radio hams, and the television coverage of the recent Centennial Olympics provided a full range of new technology to marvel at.



Each time the Olympics are held, the number of television cameras used by the network with broadcast rights is always higher, of course, than in previous coverage. For 1996, NBC used 117 stationary cameras and 72 hand-held units. One big difference this time was that all the cameras used solid state pickup devices (charge-coupled devices or CCDs), rather than tubes. CCD technology has been around a number of years, and many CCD cameras were used four years ago in Barcelona, but there were still a number of tube cameras in the mix. Although early CCD cameras provided inferior pictures, current models work better than even the best tube technology. A distinct advantage to using the solid state cameras is their lower light requirements -which means that athletes don't have to endure the bright lights that used to be necessary for quality images on tube cameras.

Depending on which Olympic events you watched, you saw any of a number of new technologies for the first time. For example, some of the slow-motion (slo-mo) footage of swimming, gymnastics, and track events was provided by a new Kodak high-speed industrial motion analyzer. In contrast to the typical Sony slo-mo system's 90 frames-per-second (fps), the Kodak system can provide 250, 500, or even 1000 fps.

Viewers of the diving events got a totally new perspective with NBC's "Divecam." This specially designed camera dropped from the base of the diving board in an aluminum and glass container to follow the diver under water for post-dive video.

Coverage of athletes in motion was better than ever in the Centennial Olympics, but viewers had to pay close attention to discover why that was the case. Video coverage provided by Atlanta Olympic Broadcasting (AOB) managed to keep pace with even the fastest runners with cameras that moved as quickly and smoothly as the athletes themselves -but how did they do it? Attentive viewers got the answer as they caught brief glimpses of miniature rail-mounted cameras that moved right next to the runners. These 14-pound self-propelled "GoCams" are able to move horizontally for highspeed truck shots (to follow runners or hurtlers) or vertically for quick crane-like shots. Twelve GoCams were used for the games.

We're all familiar with aerial coverage from a Goodyear blimp (and NBC's credits kept viewers aware of it, of course), but closer aerial shots were accomplished with yet another technical innovation. Carbon-fiber 12-pound "Skycams" flew along thin wires made from Kevlar (the material used for bullet-proof vests) above track and field, swimming, gymnastics, and equestrian events.

While there was some controversy over which events NBC chose to cover (especially when gymnastic exercises took precedence over the American women's softball gold-medal victory), there is no question that, from a technical standpoint, the 1996 Olympics were the best ever. As should be the case, much of the technology was transparent, with viewers simply getting comprehensive up-close coverage of the events. To those who are aware of the cutting-edge technology and the complex video systems involved, however, the combined efforts of NBC and AOB were nothing short of amazing. It's anyone's guess what we'll be treated to in two years for the upcoming Winter Olympics.

de Joe, W3JD

4-H to start radio classes

Rick Selby, W3GKC, a member of DLARC will be running a class for members of the **4-H club** in order to raise the interest in communciating with the world via Amateur Radio.

The classes will be held in the Greystone Building at Gracedale beginning on Friday, September 6 and 13. Rick will lead the class and as a project the members will build shortwave receivers

The Ham Radio club is a project of the 4-H program, which is coordinated by the Penn State Cooperative Extension through the U.S. Department of Agriculture.

Rick, is the new leader of the 4-H club locally and will be urging his club to continue their studies by attending the Novice-Tech classes to begin Monday September 16th.

The Prez Sez

by Tom, N3LLL

The 1996 Delaware-Lehigh Amateur Radio Club hamfest is history. Thank you to all of the club members who participated. If I try to mention all of you I will miss someone, it was truly an all club event. A special thanks to **Amy / KD3TI** our coordinator. Amy's hard work went along way towards insuring its success. I heard many comments about the friendliness of our club. Also a thanks to Chuck Snyder and CIT for the use of its facilities. CIT is a great site for a Hamfest with plenty of room for growth. A full accounting will follow as soon as all of the expenses are in.



Come and help us celebrate the clubs 50th anniversary on October 5, 1996. Our speaker will be **Jim Chiddex** a former native of Easton and now the **Senior Vice President of Technology for Time Warner**. It will be an exciting evening. The Executive Committee has chose to subsidize 50% of the meal, the tickets will be **$10.00 each**. Supplies are limited so please contact **Dick Deck KA3MOU as soon as possible.**

Thanks to **Jeff / N3QZT** for coordinating the feast at the annual DLARC picnic. Jeff has been our host for two years and always does a great job.

It looks as though the DLARC will have a true **PA QSO** special event station. We be holding it in the **Bushkill Elementary School**, in coordination with there annual **Science Day.** It should be a great opportunity to share our hobby with others while giving bonus points to others in the party.

de Tom, N3LLL

Somethings to think about!

Ever notice...that whatever the person at the next table orders, it always looks better than yours?-

Question asked to an actor...Why did you never think of running as President?

Answer...I can't talk fast enough to be a politician.

Dictionary of Telecommunications-

via the Happy Club

Acoustic Modem: A modem juryrigged from spare electronic parts and a wooden staff normally used to play billards.-

ASCII: Ancient deity of telecomputing. Rumored to bestow vast volumes of da- ta upon supplicants. Hence the saying, "ASCII and ye shall receive."-

BBS: Tall tales of telecomputing told by insects that produce honey.-

Block Parity: One heck of a good time.-

Buffering: A popular pain reliever.-

CBBS: More tall tales of telecomputing told by Naval engineers.-

Ethernet: Device used to catch the Ether Bunny.-

File Transfer: Procedure followed by telecomputerists who become tired of their present job.-

Hayes Compatible: Prone to riding with a grizzled old cowhand who sings off key. Gene Autry is the accepted industry standard.-

Kermit: A popular file-transmission protocol, most effective for short hops.-

Local Area Network: A UHF television station that carries high school sporting events.-

Macro: A tasty saltwater fish.-

Modem: What landscapers do to lawns.-

OAG: The sound a telecomputing buff makes after opening the monthly phone bill. (Moral: Ask not for whom Bell tolls.)-

de Armando, KC4JMF

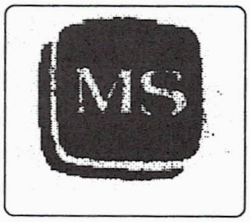


How your editor feels about the 15th of the month

A Tale of Two Bicycle Tours

by Jeff, KB2EVB

At the very end of 1995, I packed up my family and moved to Easton to start a new career. Upon arriving here, one of the first things I did was unpack some of my ham gear. I had to, at least, get on 2 meters. I quickly found the W3OK repeater & learned of the Delaware Lehigh Amateur Radio Club. At a meeting early in 1996, my wife, who is also a ham, and myself joined the club of our new home.



While I was in Sussex County, NJ, one of the biggest events that the Sussex County Amateur Radio Club was involved in was the tri-state MS 150 sponsored by the Morris-Sussex chapter of the national Multiple Sclerosis Society. For the past seven years I was very involved, wearing 3 hats at once. I had become part of the planning committee being in charge of medical end. It was my job to help arrange for the volunteer ambulance squads to be on the course in NJ, and to advise the local hospitals of the tour's coming and estimated number of cyclists. I was also the "course physician" and stayed over in the camp if any riders became ill or injuries needed checking. I was also part of the amateur radio communications, helping to organize the hams to cover a 150 mile course over 3 states and 3 repeaters. I also indulged one of my other favorite hobbies by riding the course, bicycle mobile, and finishing the complete course 4 times.

Even just being part of running this event was a major undertaking and I quickly developed a LOT of respect for everyone who was or had helped with it. The 150 after a number of years became a victim of its own success. Ridership began to fall off with multiple other tours to choose from. The tour, as it existed, folded as of its 10th year in 1995. The Morris-Sussex chapter was absorbed by the Bergen-Passaic chapter into one large Northern NJ chapter and the tour was totally redone. They ran the "new" tour this year, without any amateur radio support.

Throughout the years of the tour, the amateurs and the MS chapter had a very rocky relationship. We were constantly being asked to do things above and beyond providing communications such as direct traffic at major roadways and intersections, and provide all sag vehicles. During a few of the tours, one of the repeaters almost burned out as it was in constant use with repeated requests for supplies. Another constant problem was attempting to find an MS official to make decisions when difficult situation s arose. Despite all that, we all enjoyed working a very intense emergency management exercise and providing a public service to a very worthy cause.

Since coming to Easton, I very much wanted to get involved with another tour as I really enjoyed the work. Due my lack of familiarity with my new schedule, I was only able to give 1 day to the PA Dutch version of the MS 150 tour. Since my ability to volunteer came very last minute, I provided what I felt I could do best; mobile medical backup (on my motorcycle this time). **I was quickly impressed by cooperative and congenial relationship between the amateur radio club and the MS officials.** I also found that running a tour on the same route forward and backward was much less of a logistical nightmare than running a loop through 3 separate states. The level of chatter on the repeater let me know that the rest stops were open on time & well supplied. Also, having the ambulances mobile on the course worked much better than stationary ones from multiple squads. However, I must admit, I was MOST impressed on just how beautiful the course was. I wish I could have ridden it.

There are a few things that did work well in the other tour that I would suggest to DLARC. One is using motorcycle hams. We used from 5 to 8 ham radio equipped motorcyclists that would ride up and down the course looking for disabled cyclists. They are much better than cars because they take up much less road room and its much easier to speak to the cyclists as you drive by. I would be very happy, and I could easily get a few of my motorcycle buddies from SCARC, to help set up a group of motorcycle-ham s here in the Lehigh Valley. Also, we used a 2 tier sag wagon system. The first group would go out and retrieve cyclists back to rest stop. From there, 2 large buses would stop at each rest stop, pick up the cyclists, and bring them to the end. They only had to go back out a few times. This kept the large vehicles from having to stop on the road & we were able to keep track of everyone who was sagged. We also ham-equiped 2 repair vans and had them "leapfrog' each other to keep with the bulk of the cyclists. Disabled cyclists were sagged to nearest rest stop that had a repair van or where one would be due soon. Lastly, we set up 2 mobile "Situation Teams" that consisted of an MS official teamed with a ham who had helped organize the event. It was their job to go to any situation that occurred on the course that was serious enough to require the immediate presence of an MS official.

I hope these ideas are helpful. I also look forward to helping out in the years to come. As I stated before, this one very well run and very beautiful course.

de Jeff, KB2EVB

Why don't you help YOUR newsletter. Write something to help Delaware-Lehigh Amateur Radio Club keep it's rating as one of the best in the country.

Summer storm safety

by Bob, KE3CZ

When a tornado approaches immediate action can save your life.

TORNADO WATCHES are alerting messages between the National Severe Storms Forecast Center and areas potentially threatened by tornadoes. They specify the area covered by the watch, and establish a period of time during which tornado probabilities are expected to be dangerously high. Watches are transmitted directly to local offices of the National Weather Service and disseminated to the general public via radio and television stations in and around endangered areas.



TORNADO WARNINGS are issued when a tornado has actually been sighted in the area or indicated by radar. Warnings indicate the location of the tornado at the time of detection, the area through which it is expected to move through the area warned. When a tornado warning is issued, persons in the path of the storm should take immediate safety precautions.

TORNADO SAFETY RULES

If a **TORNADO WATCH** is issued for your area, keep a battery-operated radio or television nearby and listen for weather advisories - even if the sky is blue. If a **TORNADO WARNING** is issued for your area, seek inside shelter (in a storm cellar or reinforced building) and stay away from windows. Curl up so that your head and eyes are protected. Keep a battery operated radio or television nearby and listen for further advisories.

IN OFFICE BUILDINGS, go to an interior hallway on the lowest floor, or to the designated shelter area.

IN HOMES, the basement offers the greatest safety. Seek shelter under sturdy furniture if possible. In homes without basements, take cover on the lowest floor, in a small room such as a closet or bathroom, or under sturdy furniture. Keep some windows open, but stay away from them.

IN SHOPPING CENTERS, go to a designated shelter area, **NOT** to your parked car.

IN SCHOOLS, follow advance plans to an interior hallway on the lowest floor. If the building is not of reinforced construction, go to a nearby one that is, or take cover outside on low, protected ground. Stay out of auditoriums, gymnasiums, and other structures with wide, free-span roofs.

IN OPEN COUNTRY, move away from the tornado's path at right angles. If there is no time to escape, lie flat in the nearest ditch or ravine.

MOBILE HOMES are particularly vulnerable to over-turning during strong winds and should be evacuated when strong winds are forecast. Damage can be minimized by securing trailers with cables anchored in concrete footing. Trailer parks should have a community storm shelter. If no shelter is nearby, leave the trailer park and take cover on low, protected ground.

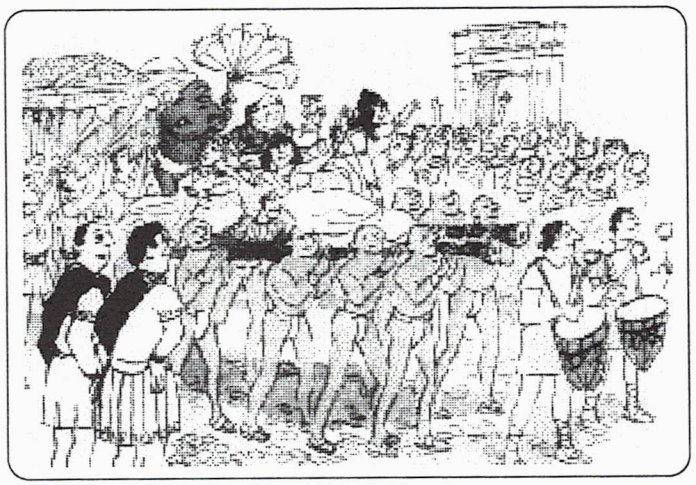
Tournedos are only one of a thunderstorm's killers

LIGHTNING IS THE WORST KILLER. Stay indoors and away from electrical appliances while the storm is overhead. If you are caught outside, stay away from and lower than high, conductive objects.

THUNDERSTORM RAINS cause flash floods. Be careful where you take shelter.

This information was obtained from the U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA).

73 de Bob KE3CZ.



The way the members of Delaware-Lehigh Amateur Radio Club feel about Amy, KD3TI after her great job as coordinator of the hamfest.

ARRL/VEC to Offer Free Electronic Filing of FCC Forms 610 For ARRL Members

The following announcement of a new service for ***ARRL Members*** *has just been announced. Be sure to take advantage of it if you have a license renewal or modification coming up.*

Effective immediately, the **ARRL/VEC** will electronically file with the FCC Forms 610 for ARRL Members. **The ARRL/VEC** can electronically file FCC Form 610 applications for amateur station license renewals, or for address, name or call sign changes. This service is **FREE** to current **ARRL Members.**

What is required to use this ARRL Member service?

ARRL Members must send a correctly-completed, signed and dated original Form 610 to the ARRL/VEC. Members can send the Form 610 by US mail, by courier, or hand deliver to: ARRL/VEC, 225 Main St, Newington CT 06111 (USA). Applications received by the ARRL/VEC must include an original signature. Forms 610 cannot be accepted via fax.

Special Information Regarding Applications:

*** Renewals (Box 4F)**: Only applications for renewal made on FCC Form 610 may presently be electronically submitted by VECs. For now, VECs cannot process computer-generated Forms 610-R (which are mailed by the FCC directly to upcoming expirees)--those must go directly to the FCC (also, VECs cannot presently process FCC Forms 610-A, 610-B, 610-R or 610-V). FCC Rules stipulate that renewals be submitted to them no earlier than 90 days before the license expiration date. Licenses that have been expired for less than two years may still be reinstated--a Form 610 for renewal must be submitted to a VEC or FCC before the two year grace period has ended.

*** Systematic Call Sign Changes (Box 4E)**: Applications submitted for a systematic call sign change must have Box 4E checked, and the applicant must initial the line adjacent to the box.

*** Address Changes (Box 4D)**: Applications must include a current mailing address that is within the United States or its Possessions/Territories (where mail can be delivered by the United States Postal Service).

*** Name Changes (Box 4C):** Applications submitted for a name change must include a copy of a legal document showing the formal name change. The former name must be written on the line next to Box 4C. Typographical errors can be corrected using Form 610.

Any questions regarding Form 610 application processing for **ARRL Members** can be directed to the **ARRL/VEC** by calling 860-594-0300 (weekdays and evenings, from 8 am to 9 pm eastern time).

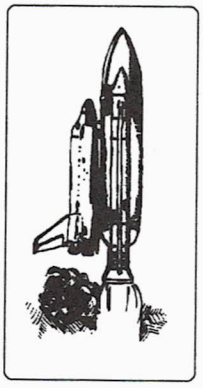
73, Don Haney, KA1T
New England Division Vice Director-

For more information contact:

Bart J. Jahnke, KB9NM
ARRL/VEC Manager
Phone: 860-594-0300
Internet: vec@arrl.org

ARRL honored for Sarex

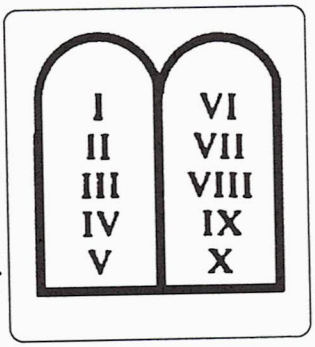
The American Radio Relay League has been honored for its role in the Shuttle Amateur Radio Experiment or **SAREX** program. The League was recently named one of 43 American Society of Association Executives "Award of Excellence" winners. The society presents the annual awards to associations whose work best exemplifies the leadership role of associations in creating a positive business and social climate. Educational Activities Manager Rosalie White, WA1STO, submitted an entry earlier this year on behalf of the League. Award of Excellence winners were recognized at an August 11th ceremony in Boston. By the way, the present "waiting time" for a school to have a SAREX scheduled contact now averages one to two years.



Amateur Radio Newsline #991 09 Aug 1996

Remember, the American Radio Relay League is not just a subscription to a magazine.

The Ten Commandments of Electrical Safety



I. Beware of the lightning that lurketh in an undischarged capacitor lest it cause thee to bounce upon thy buttocks in a most embarrassing manner.

II. Cause thou the switch that supplieth large quantities of juice to be opened and thusly tagged, that thy days may be long in this earthly vale of tears.

III. Prove to thyself that all circuits that radiateth and upon which thou worketh are grounded and thusly tagged, lest they lift thee to a radio frequency potential and causeth thee to make like a radiator also.

IV. Tarry thou not amongst those fools that engage in intentional shocks, for they are not long for this world and are surely unbelievers.

V. Take care thou useth the proper method when thou takest the measures of high voltage circuits so that thou dost not incinerate both thee and thy test meter, for verily, though thou hast no stock number and can be easily surveyed, the test meter has one and as a consequence will bringeth much woe unto the supply officer.

VI. Take care thou tamperest not with interlocks and safety devices lest this incurreth the wrath of thy supervisor and bring the fury of the safety officer upon his head.

VII. Work thou not on energized equipment for if thou doest so thy shipmates will surely be buying beers for thy widow and consoling her in certain ways not generally acceptable to thee.

VIII. Verily, verily I say unto thee never service equipment alone for electrical cooking is a slow process and thou might sizzle in thy own fat upon a hot circuit for hour on end before thy maker sees fit to end thy misery and drag thee into his fold.

IX. Trifle thee not with radioactive tubes and like substances, lest thou commence to glow in the dark like a lightning bug and thy spouse be frustrated and have no further use for thee except for thy wages.

X. Thou shalt not make unauthorized modifications to equipment, but causeth instead to be recorded all technical directives and authorized modifications made by thee, lest thy successor tear his hear and go slowly mad in his attempt to decide what manner of creature hath made a nest in the wiring of such equipment. author unknown but supplied

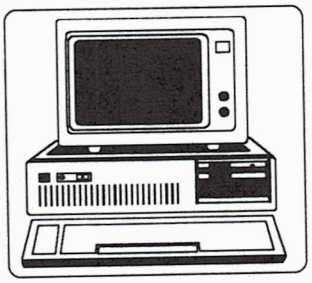
by Kevin Purcell N7WIM / G8UDP.

Truth is stranger than . . .

by George N2QNN

A Lady calls her local computer repair shop to see if her ailing machine can be fixed.

"Computer repair, how can I help you?" the eager technician asks.



"Uh, I am having a problem with my computer - the cupholder doesn't work any more."

"Your cupholder?" the puzzled technician asked.

"Yes, my cupholder," the lady replies. "It was working earlier today, and then t stopped after I spilled a little coffee on it."

Utterly confused, the technician puts the lady on hold. He asks everyone in his shop if they sold a cupholder for the computer table, or were giving one away free. Everyone looked at him lilke he had three heads.

Then, a light goes off in the technician's head.

"Hello, 'mam?"

"Yes."

"Does that cupholder have any writing on it?" the technician asked.

"Yes. Yes it does," the lady replied.

"What does it say?"

"Uh, 4X."

Oh Lord! Can't believe that people would be that foolish? Well, believe it! I'd hate to say it, but this was no joke. A friend of mine actually had this customer one day. But, if you think that's bad, you should have seen what she was using as a coffee grinder. . .

de George N2QNN

One for the books

The boy decided he was going to rake leaves to make some money.

A short time later he came to his father with $100 he wanted to put in the bank. His father was pleasantly surprised.

"You raked a lot of leaves,son."

"Just one yard, Dad," said the boy.

"And their dog bit me."

DLARC Hamfest a success

by Amy, KD3TI Hamfest chair

I want to begin this article with a sincere **THANKS** to all the members of the **Delaware-Lehigh Amateur Radio Club**.. When I was asked to chair this event, I had my doubts. .This was, by far, the biggest event I'd ever tried to lead. I stuck my neck out though and agreed to try it. Fortunately, I had the officers and members of DLARC to assist. Several people approached me as soon as my acceptance was known and said, "I'll be there" or "I'll head up this group.. .again"

From the beginning, club members and officers joined in to help the planning. With the benefit of the old hamfest info, there was a good plan to follow. Many club members quietly and efficiently assumed the roles they'd had before. Others decided this was a good year to join in. There was always someone around with the help that was needed.

Sunday morning, the club members and early arrivals were glad that there was an airport nearby, the fog was so heavy, we had to use their radar to find the location! When the sun came out, it quickly got rid of the fog, and gave us as perfect a day as you could want. Plenty of club members were there to direct vendors and buyers. CIT kitchen staff was there early so coffee and donuts were ready to .jump start our efforts. There was some disappointment that two major indoor vendors didn't make it, but there were plenty of people outdoors with a good variety of items for sale. Indoors, the ARRL table seemed popular, and the crew said we could have use a larger consignment of books. We even had our Section Manager and section emergency coordinator there for awhile. There were plenty of buyers and many of them seemed to have their hands full, so the vendors must have had some good stuff. I must confess, I made my contribution to their sales coming home with a new antenna and a used keyer. My husband says now I only have to find a house to put them in, uh-oh. No one. had to worry about going hungry, CIT kept the kitchen going strong and we also had our guest of honor in his customary place by the front door.

The crowd began to thin about noon, by one many of the vendors were packing. There was enough energy left to clean up the outside and pack up what was left inside. Initial report from our money man was we made some money.

Again, a big, big THANK YOU to everyone Who helped. I'm not going to try and single anybody out, because I think everyone did a great job, and I don't want slight anybody by not including them in the list. Everyone pitched in. and everyone made the hamfest a success. ***de Amy KD3TI***

Just the minutes

by Chris, NU3L

The business meeting of the DLARC was called to order by President Tom Frobase at 7:35 PM on August 1, 1996. 57 members and guests in attendance.

The DLARC picnic will be held on Sunday August 18 at Hacketts Park. Please let Jeff, N3QZT know if you plan to attend and what dish you will bring. It was moved by W3TDF and seconded by N3IGA that the minutes of the July meeting be approved as printed in the August W3OK Corral. The motion carried unanimously.

The treasurers report was given by acting treasurer Norm, N3GXW. The balance is $2582.33. KD3TI moved and KB2EVB seconded that the report be approved as read. The motion carried.

Several new members were brought into the club. W3PYF moved and W3APE seconded that the following individuals be approved for membership: **Nicholas Carthage, W3HPY** and **Chayil Timmerman, N3VXL**.

The motion carried unanimously. **N3NVA** reported on the progress with the 444.9 repeater. It is up and running and the frequency appears to be stable. The CTCSS tone is 151.4. It will soon be linked with the 2M repeater. Please report any problems to Barry.
Classes will start on September 16. See article elsewhere in this newsletter. VE sessions will be held Friday August 2 and at the hamfest.

KD3TI reported on the hamfest preparations. All is ready. Van, K3CP reported on the plans for the DLARC banquet. See the article elsewhere in the newsletter for details. The guest speaker will be **Jim Chitticks, VP of Time Warner Communications**. **KU3X** has purchased several books for the club library. They can be checked out at one meeting and returned the next.
DLARC member participated in several public events during July:

Easton Heritage Days

Red Cross River Run.

The Easton Hospital Run will take place on August 11. Contact N3IGA if you would like to help with communications.

W3TDF reported that the DLARC won the 1995 PA QSO Party. Awards were distributed to high scorers. DLARC (W3OK) will be the bonus point station for the 1996 QSO Party.

AA3JU, program chairman, solicited ideas for future meeting topics. A special license will be applied for use at the Christmas City Special Event Station. The goal is to obtain WX3MAS as a call sign. The program for the evening was on the ARRL presented by Kay Craigie, WT3P.Atlantic Division Director

de NU3L, Acting Secretary

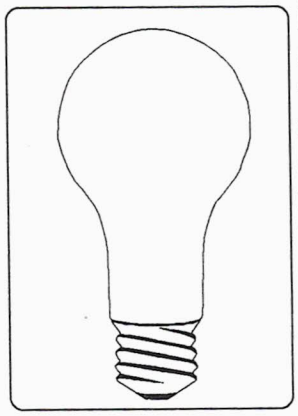
Electricity?????

from your editor, W3PYF

Here is a dissertation on physical science for your enlightenment. I don't know where it came from so it must be true!

Today's scientific question is: What in the world is electricity and where does it go after it leaves the toaster?

Here is a simple experiment that will teach you an important electrical lesson: On a cool dry day, scuff your feet along a carpet, then reach your hand into a friend's mouth and touch one of his dental fillings. Did you notice how your friend twitched violently and cried out in pain? This teaches one that electricity can be a very powerful force, but we must never use it to hurt others unless we need to learn an important lesson about electricity.



It also illustrates how an electrical circuit works. When you scuffed your feet, you picked up batches of "electrons", which are very small objects that carpet manufacturers weave into carpet so that they will attract dirt. The electrons travel through your bloodstream and collect in your finger, where they form a spark that leaps to your friend's filling, then travel down to his feet and back into the carpet, thus completing the circuit.

AMAZING ELECTRONIC FACT: If you scuffed your feet long enough without touching anything, you would build up so many electrons that your finger would explode! But this is nothing to worry about unless you have carpeting.

Although we modern persons tend to take our electric lights, radios, mixers, etc. for granted, hundreds of years ago people did not have any of these things, which is just as well because there was no place to plug them in. Then along came the first Electrical Pioneer, Benjamin Franklin, who flew a kite in a lightning storm and received a serious electrical shock. This proved that lightning was powered by the same force as carpets, but it also damaged Franklin's brain so severely that he started speaking only in incomprehensible maxims, such as, "A penny saved is a penny earned." Eventually he had to be given a job running the post office.

After 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. Among them, Galvani discovered (this is the truth) that 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 -almost.

But the greatest Electrical Pioneer of them all was Thomas Edison, who was a brilliant inventor despite the fact that he had little formal education and lived in New Jersey. Edison's first major invention in 1877 was the phonograph, which could soon be found in thousands of American homes, where it basically sat until 1923, when the record was invented. But Edison's greatest achievement came in 1879 when he invented the electric company. Edison's design was a brilliant adaptation of the simple electrical circuit: the electric company sends electricity through a wire to a customer, then immediately gets the electricity back through another wire, then (this is the brilliant part) sends it right back to the customer again.

This means that an electric company can sell a customer the same batch of electricity thousands of times a day and never get caught, since very few customers take the time to examine their electricity closely. In fact, the last year any new electricity was generated was 1937.

Today, thanks to men like Edison and Franklin, and frogs like Galvani's, we receive almost unlimited benefits from electricity. For example, in the past decade scientists have developed the laser, an electronic appliance so powerful that it can vaporize a bulldozer 2000 yards away, yet so precise that doctors can use it to perform delicate operations to the human eyeball, provided they remember to change the power setting from "Bulldozer" to "Eyeball.".

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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The W3OK CORRAL is published monthly and is the Official Publication
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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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