Delaware - Lehigh Amateur Radio Club, Inc.

W3OK Corral NEWSLETTER

JULY 2003

Meeting July 3rd at IU20

July DLARC Program

July's program topic is "**Crossband Repeaters and Crossband Operations:** The good, bad and ugly points to consider" presented by **Paul Ryan (N0KIA).**

Paul will deliver a short program defining crossbanding, setup, equipment "gotcha's", FCC requirements and suggested frequencies. A live demo will conclude the presentation. No, he won't use the .70 machine!! See you at the meeting.

The Prez Sez

by Jeff, N3QZT

Have you been to a Club meeting re-cently, gone to any hamfests, helped out with any public serv-ice events? Well here we are in the middle of the summer months. By the time you read this Field day and many of the other events that the club participates in are over, but you still have time to get involved and pitch in. I don't mean to be cynical; well I guess that I am. I see the D.L.A.R.C. membership at the +250 level and barely see 50 members at meetings. I hear the coordinators of public service events begging for volunteers to help out. I see dismal turnouts at Field Day and even the Club picnic (which this year is being held at a new location: Louise Moore Park and a different time: September 28). Is it just the times that we live in? Are our daily lives just too full, or is it something else? I would like to hear from you. Tell me why you don't come to meetings, participate in events or even get on the air. There must be a reason... I really want to know. If the Club can change to meet your expectations, then let me, or any Club officer, know what direction to take. If you're just sitting there stewing about something, now is the time to get it off your chest. Speak up. My phone number and email address are on the back of this newsletter. My mailing address is in the Club roster. All that I ask is that you don't call after 9 PM. I am looking forward to hearing from you. Parts of this are reproduced from the July 2001 Prez Sez column.



de N3QZT, Jeff President

Space Station and Field Day

The Expedition 7 crew may be on the air from NA1SS during ARRL Field Day http://www.arrl.org/contests/rules/2003/rules-fd-2003.html> the weekend of June 28-29.

"We don't know if the crew will be active or not, but give it a try," said ARISS Mentor Charlie Sufana, AJ9N. Sufana advises "good operating sense" and recommends that FD operators wait for the crew to finish a previous contact before calling. "You may be only hearing a station or two," he pointed out, "but they are hearing hundreds." Look for the ISS during Field Day during these time slots: Northern and Southeastern US, June 28, 1821-1842 UTC; Southern and Northeastern US, June 29, 1059-1117 UTC; Western US, June 29, 1233-1253 UTC; Northeastern US, June 29, 1723-1744 UTC; and Northwestern and Southern US, June 29, 1859-1920 UTC. ARRL Contest Branch Manager Dan Henderson, N1ND, notes that Field Day contacts with the ISS crew do not count for satellite QSO bonus points, just contact credit. "Valid satellite contacts must be Earth-satellite-Earth contacts through a satellite transponder or repeater," he explained. (See Field Day rule 7.3.7.)

The ARRL Letter

Delaware-Lehigh Amateur Radio Club Inc.

Income & Loss Statement

Balance	**4/30/03**	**$6,741.98**
INCOME		
Club Dues	$18.00	
Donation Income 50 - 50	19.00	
Gift Received Anonymous	20.00	
Interest Checking 5/15	8.17	

TOTAL INCOME		**$65.17**
EXPENSES		
Insurance Equipment	103.75	
Postage	70.00	
Telephone	20.88	

TOTAL EXPENSES		**$194.63**
Balance	**5/31/03**	**$6,612.52**

de Dick, KA3MOU, Treasurer

Just the Minutes

by Jill N3ZSR

President Jeff Keller, N3QZT called the June 5th club meeting to order at 7:30 PM, with 26 members and 5 guests present.



The May minutes was approved with a motion from George, N3SQD with a second from Bud, W3BUD. Motion passed.

The Treasurer's Report for May was approved with a motion from Norm, K3NZ with a second from Barry, N3NVA. Motion passed.

Barry, N3NVA said that the 440 is back up. Again reminded everyone to wait a second or two after keying up before talking. He also reminded event chairpersons to give him and Clarence the information for the club page and newsletter.

VE session scheduled for June 6th at IU20 had 2 people registered.

Club classes for the fall will start on September 8th.

Sue, KB3IDW, Ham fest Chairperson had sign up sheets at the meeting. She has sent out about 40 letters to vendors asking for donations or to come and sell, and is now awaiting their response.

Jeff welcomed the following guests to the meeting: Bob, KB3JTY / Ed, K3IFE / Larry, KB3JMS / Scott, KB3JMQ / Hope Goodman

The following new members were voted in: Susan - no call sign - on a motion from Bob, KE3AW with a second from Bob, N3QZR.

Brian, KB0MEE - on a motion from Norm, K3NZ with a second from Bill, N2DH.

Michael - no call sign - on a motion from George, N3SQD with a second from Bill, N2DH.

R. Scott, KB3JMQ - on a motion from Norm, K3NZ with a second from Bill, N2DH.

Kathleen, KB3JMR - on a motion from Norm, K3NZ with a second from Bill, N2DH

Larry, KB3JMS - on a motion from Norm, K3NZ with a second from Bill, N2DH.

Frank, KC2LGC - on a motion from Norm, K3NZ with a second from Bill, N2DH.

William, N3BPR - on a motion from Norm, K3NZ with a second from Bill, N2DH.

The following applications will be voted on at the June meeting: Bob, N3SNZ (reinstatement).

Program Chairperson, Bill - KB3RVH announced the following programs:

July - N3KIA, Cross band Repeaters

August - KA3JWE, Foxhunt

We are still looking for a non-club member to do the club audit.

A certificate of appreciation was received from the MS Society.

Tom, KB3IUE helped Jeff with the MS 150 Bike Tour.

The program for the evening was by Bryan, AA3WM on field day.

The meeting was adjourned at 8:10 PM on a motion from Glenn, N3ULW and seconded by Ed, W3APE.

de Jill, N3ZSR, Secretary

June VE Session;

Bradley Snyder passed the no code technician exam, and passed the general written.

We have a new Tech.

de Thalia KB3CSR



Donald R. Meiley N3ZNO

Donald R. Meiley, 67, of 2352 Dewey Ave., Northampton, died June 4 in Lehigh Valley Hospital-Muhlenberg, Bethlehem.

He was married to Rosemarie V. (Spanitz) Meiley for 46 years last June. He was a warehouse man for the former Howard's Furniture, Allentown, before retiring in 1986.

Previously, he worked for National Portland Cement Co., Nazareth, and Lehigh Valley Dairy. He was also a saxophone player for the Sharps and Flats band. Born in Allentown, he was a son of the late Vincent and Florence (Serfass) Meiley. He was a member of Assumption of the Blessed Virgin Mary Catholic Church, Northampton.

Ham Fest Dates

submitted by Blair, K3YD

NOTE:

DLARC fest has been intentionally omitted from this list. But we all know about it, don't we?

July 6th, 2003

(Sunday) **Murgas ARC Hamfest** At the Luzerne County Fairgrounds, Rt. 118, Wilkes-Barre, Pa. http://www.qsl.net/k3ytl Contact: Frank Karcheski, N3WPG 332 Madison St Wilkes-Barre, PA 18705 Phone: 570-824-7579 E-mail: Frank Karcheski <n3wpg@juno.com> Talk in: 146.61 (-) PL 82.5

July 13th, 2003

Sunday) Mid-Atlantic ARC Kimberton Hamfest http://www.marc-radio.org/hamfest.html Contact: Rick Miskinis, N3AGS 346 East 9th Av. Conshohocken, PA 19428 Phone: 610-825-9590 E-mail: <hamfest-info@marc-radio.org> Talk-In: 146.835- or 443.80+ (PL 131.8)

July 13th, 2003

(Sunday) Sussex County ARC Hamfest At the Sussex County Farm & Horse Show Fairgrounds, Augusta,N.J. http://www.scarcnj.org/www.scarcnj.org/hamfest_2003.php Contact: Sussex County ARC P.O. Box 11 Newton, NJ 07860-0011 Dan Carter, N2ERH, 973-948-6999 E-mail: Dan Carter <n2erh@email.com> Talk in: 147.90 (+) and 222.90/224.50

July 19th, 2003

(Saturday) Jonestown Mountain Repeater Asso. Hamfest At the Beach Haven Carnival Grounds, Berwick / Shikshinny, Pa. http://members.tripod.com/jmraclub/ Contact: Keith Wolfe, N3YUA, Phone: 570-825-1957 E-mail: Keith Wolfe <jmra@post.com> Talk in: 145.13 (+) PL 77.0

July 27th, 2003

(Sunday) Baltimore Radio Amateur Television Society The BRATS Maryland Hamfest and Computer Fest At the Maryland State Fairgrounds, Timonium,Md. http://www.bratsatv.org/hamfest.html Contact: Bob Bennett, W3WCQ Phone: 410-461-0086 (voice or fax, 24-hour) E-mail: Bob Bennett <hamfest@bratsatv.org>

Digital Papers Wanted

Digital Communications Conference issues call for papers: Technical papers are solicited for presentation at the 22nd annual ARRL-TAPR Digital Communications Conference set for September 19-21, 2003, in Hartford, Connecticut. Papers also are needed for publication in the conference Proceedings, published by the ARRL. Presentation at the conference is not required for publication.

The deadline to submit papers is August 5. Submissions go to Maty Weinberg, KB1EIB, ARRL, 225 Main St, Newington, CT 06111, or to maty@arrl.org. Paper submission guidelines are available on the TAPR Web site ***<http://www.tapr.org/dcc/>.***

The ARRL Letter

.DLARC Club Picnic!

This year's club picnic date and location are changed.

The date will be **Sunday, September 28th.** The new location will be **Louise Moore Park.**

Check the club's web page for directions. We hope this year's picnic will be a record turn out. There are a number of things to do at the Park.

Just to mention a few: Tennis, Basketball, nice walking areas, of course horse shoes. As always the club provides hot dogs and hamburgers and beverages.

At a later date, we will be asking for donations of other food items from our members.

de Dick KA3MOU

MS 150-2003 Report:

by Jeff, N3QZT

The annual MS-150 Bike Tour took place on June 7and 8 This fundraising activity for the Multiple Sclerosis Society guided more than 500 bicyclists over a 150 mile route from the Velodrome in Trexlertown to Kutztown University and back the next day, with 50-mile, 75-mile, and 100-mile options for riders with lesser or greater expectations. As has been the case for the past several years, members of the DLARC and other interested hams provided communications for event vehicles and locations over the entire route. The net control station, N3KU, was located at Kutztown University. This year's event did have some medical emergencies, and unfortunately this year's event had its first fatality. I want to thank N3RPV and KB3HMK for there part in providing aid in this emergency as well as all of the other hams involved in getting medical aid to the seen quickly and safely. This just proves how important the job that we do for the MS Society and all the bikers is. Even with the added communications this year because of a lack of cell phones and all the rain, it rained hard on Saturday and Sunday was mostly dreary, the performance of the hams was outstanding. Here listed in no particular order are the hams that participated in this year's event: **KB3IUE/Tom, KB3JMQ/Scott, KB3JMR/Kathy, KA3ONZ/Bruce, N3NRB/Bob, N3OLH/Bob, KB3JTY/Bob, KE3AW/Bob, N3QZR/Bob, W3YLT/Bob, (we had lot's of Bob's) N2ADD/Nate, N3RAD/Nancy, WA3ZGL/John, NC3P/Bill, N3RVH/Jeff, N3RPV/Chris, KB3AMY/Mike, N3TFG/Missy, N0KIA/Paul, KB3HMK/Phillip, WA1LLD/Mitch, KB3JMS/Larry, N2BSC/Len, KB3FIH/Bruce, N3ULW/Glenn, N3ZSR/Jill.**

I want to thank KA1RAH/Brad for helping me out with net control this year as I talked him into doing it after finding out that W3JD/Joe could not be at the event. A Special thanks to Greg (KB3FIH's son) for helping at net control all Saturday and Sunday even thought his dad couldn't make it on Sunday.

Just a short note from me, for the past ten years I have been fortune to be in the net control center for this event. I have been blessed in many ways. This will be my last year as the coordinator of this event; I want to give this opportunity to another ham. Thank you for putting up with me and doing such a great job for the last ten years...Jeff

de N3QZT,Jeff

Tower Troubles

submitted by Blair, K3YD

Seems that we amatuers aren't the only ones to face legal problems with towers.

(from: http://www.fybush.com/nerw-yir2002.html) Little Lebanon, New Hampshire is an unlikely spot for a precedent-setting battle over tower construction, but station owner Bob Vinikoor (W3CFE-ed.) and attorney Fred Hopengarten (K1VR-ed.) didn't give up when the city tried to deny them permission to build 266-foot towers for new WQTH (720, Hanover).

Taking their fight all the way to the New Hampshire Supreme Court, Vinikoor and Hopengarten emerged in early December [2002] with a major victory, striking down the city's rules that tried to limit broadcast towers to an impossible 46 feet - and establishing an important benchmark for other such fights in cities and towns across America.

(I chuckle just thinking of the radiational efficiency of a 46' high vertical antenna operated on 720 KHz; it would be something like a "rubber duckie" for the AM BCB. I do like that station call, though.-ed.)

Editorial comments are by K3YD

The American QRP Club

supplied by Blair, K3YD

This is a message from Doug KI6DS, George N2APB, Jim WA6GER and Joe N2CX announcing a major new organization specifically designed to enrich our radio hobby, increase the enjoyment we all get from QRP, and position us well for massive growth envisioned in the years ahead.

Effective today, 4 June 2003, we are announcing the merger of the NorCal QRP Club and the New Jersey QRP Club to form the American QRP Club. Throughout the last decade NorCal has provided many tangible benefits to the entire QRP community. Over fifty novel and original projects have been designed, kitted and produced for QRPers around the world. NorCal defined > and honed the concept of QRP weekends (Pacificon) filled with informative > and entertaining presentations during the days and fun-filled evening social > sessions with the attendees. Further, they've published a quarterly magazine > (QRPp) that provides many of us with project ideas, construction techniques > and operating guidelines that have pulled newcomers into QRP and have > allowed us all to grow over the years.

In many ways the NJQRP has been a sister club to NorCal, having adopted the same operational model during its eight-year existence. This guidance has enabled the NJQRP to grow and become the major east coast QRP presence, providing over thirty new designs and kits, a QRP forum weekend of their own (Atlanticon), a quarterly journal with a predominant homebrewing theme (QRP > Homebrewer), and a dynamic and content-rich website that is unrivaled in QRP > circles. > > Even considering the close association NorCal and NJQRP have enjoyed over > the years, much duplication and redundancy has naturally evolved, providing each of the leadership teams with added work, and replicated expenses. > Those in our QRP community also pay for these duplication of efforts; for > example with subscriptions to multiple QRP journals, overlapping feature material at the QRP forums, and kit designs that are needlessly overlapping > and uncoordinated.

The formation and charter of the American QRP Club addresses each of these situations and provides an economy of scale that benefits everyone in QRP today.

COMBINED JOURNAL.

We are producing a single journal on a quarterly basis called "The Homebrewer" that is intended for "builders, experimenters, ham radio operators and low power enthusiasts", just as stated in the journal's subtitle. The Homebrewer is a larger-format, increased content version of either QRPp or QHB magazine. It is at least a 72-page magazine containing content-rich homebrewing and construction material, with additional sections dealing with operating, contesting and local club happenings throughout the country. On an annual basis we will issue a CD-ROM collection of the previous four issues, including bonus material: software, tools and reference material . The quality of journal is intended to be first class in every respect, including technical content, editing integrity and journalistic standards. We know the combined subscriber bases of QRPp and QHB will enjoy this publication aspect of the American QRP Club. Members of both clubs today will still receive all issues due - e.g., if one has two issues remaining in a QRPp subscription, and four issues remaining from a QHB subscription, six issues of The Homebrewer magazine will be entered in > the database for the individual. New annual subscriptions to The Homebrewer magazine, or renewals from either QRPp or QHB, will cost $20 for US and Canada, and US$30 for DX subscribers. We have not seen price increases in our QRP magazines for many years and this new rate accommodates increased printing and mailing costs today, as well as covering for additional content. Payment should be made out to "American QRP Club" and sent to:

American QRP Club,
c/o Paul Maciel AK1P,
1749 Hudson Drive, San Jose, CA 95124.

Be sure to indicate whether this order is for a new subscription or a renewal, as it will better enable us to record the transaction.

KITTING.

The leadership of the American QRP Club (KI6DS, N2APB, WA6GER and N2CX) has aready started combining kitting operations to bring about the economies of scale. What this means is that we're capitalizing on Doug Hendricks's expertise in promotion and parts procurement. We are using and expanding the already-strong NJQRP kitting engine. We are relying on Joe Everhart for technical focus and direction.

We are counting on George Heron for editorial strength, kit documentation and website communication from the club. Jim Cates is providing us the time-proven QRP wisdom and guidance of the ages. We are creating a developer network that

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will focus and funnel new designs into the kitting operation to provide all QRPers with innovative and well-coordinated projects. Further along these lines, we're strengthening our alliances with our valued QRP vendors and working with them to identify product opportunities for us that fill in the gaps in their product lines and enable QRPers everywhere to best use their products and services.

QRP FORUMS.

The American QRP Club will sponsor the highly-acclaimed and premier quality QRP weekends on an annual basis: Atlanticon and Pacificon. > Each local group, NJQRP and NorCal, will continue to be responsible for planning and execution of their respective forums; however the American QRP Club will fund the activities based on the kitting and journal operations. Substantial guidance and administrative support will be available to each > local club to help coordinate and synchronize activities, and to provide similar services and benefits where applicable - e.g., the "forum kit" > concept that is so well-received at Atlanticon and Lobstercon will be next used at Pacificon. Arrangements and travel accommodations for guest speakers will be provided, as will be other unique event surprises we have up our sleeves. A national convention is currently being negotiated and planned. This coordination of these QRP weekends throughout the country is sure to reduce the individual costs of conducting them and will increase the > value and benefit for the entire QRP community.

WEBSITE.

Communication among all QRPers continues to be of paramount importance. Of course this statement is true by our very nature as RF-oriented hams, but also through our use of email technology and Internet services available to nearly everyone today. The American QRP Club will > continue to use the QRP-L email reflector as its primary tool for information exchange and topic discussion. A website is being constructed to > reflect the services, goods and technical/operational needs of all QRPers. While we await a domain name, you can see our new face at ***www.njqrp.org/a-qrp***.

Each local club may, of course, continue to have a website presence as desired to directly serve needs of their local members.

LOCAL CLUBS.

Both NorCal and NJQRP will continue to exist as local clubs, serving the needs of the local members who gather for meetings, operate as a unit during field operations, have holiday parties together, and so on. The American QRP Club is structured as an overarching umbrella organization to these local clubs with the purposes of: reducing the redundancies of each constituent group, fostering a means for each to better achieve their localized goals of QRP awareness among the ham population, and introducing > the youth of America to the joys of home construction and radio sport. This local QRP club scene is incredibly vibrant and is "where it's all happening" . We will be encouraging and facilitating other local clubs to join the network of services and values offered by the American QRP Club.

AMERICAN QRP Club.

We purposely selected the name of the organization as such because we are predominantly an American club, sharing the goals, dreams and passions of our great country. We also have many Canadian > members in our club, and the name of our organization can also be extended to represent our valued North American neighbors. We want to ensure that they know that they are valued and welcomed members. The focus of the > American QRP Club is on US and Canada, but we will always welcome members > from DX countries, just as the G-QRP club welcomes members from the US and > Canada to join their organization.

UNLIMITED HORIZONS.

There is so much more that the American QRP Club will be offering over time - this summary merely scratches the surface. Our leadership team has the motivation, the track record, the enthusiasm and the vision to help evolve the QRP community as a whole and create something bigger than any of us have ever imagined. The youth of our population and the public as a whole are all fertile ground for the introduction to the benefits and value of low power ham radio. Education, service, value and enjoyment of radio are our goals. We hope that you'll join us in helping to create this enabling environment in the American QRP Club.

Doug Hendricks, KI6DS email:ki6ds@dospalos.org
George Heron, N2APB, email: n2apb@amsat.org >
Jim Cates, WA6GER, email: wa6ger@juno.com
Joe Everhart, N2CX, email: n2cx@voicenet.com.

Norm K3NZ in June CQ Magazine

by Lamaar, N3AT

The QRP column in the June issue of CQ magazine includes a story about Norm Zoltack and his Rock Mite transceiver. Dave Ingram, KA4TWJ, writer of the QRP column, includes this report:

"I recently answered a CQ from K3NZ, and was blown away when Norm described his rig...It was a Small Wonder Labs Rock Mite mini-transceiver built on a 2 inch by 3 inch PC board and running less than 500m milliwatts. I'm serious - less than half a watt. Norm's signal was not strong, but it was not so weak that you would just tune past it and ignore his CQ either. I didn't ,and I was in a rush and pressed for time to boot. Now that is what milliwatting is all about, friends - having fun with a tiny rig you can hold in the palm of your hand or carry in a shirt pocket, You can see close up views of the Rock Mite's circuitry at <www.smallwonderlabs.com>....This is one hot mini rig!"

There is a picture in the column showing Norm's Rock Mite and his QSL card. Underneath the picture are these words: "Looking over the shoulder of Norm Zoltack, K3NZ, we see what's responsible for his attention-grabbing 20-meter signal - a little 500 milliwatt Rock Mite Transceiver from Small Wonder Labs mounted in an Altoids tin. Using this gem Norm has worked 45 states and 15 countries, including a record-setting 10,000 mile CW QSO with VK4CEU in Australia. Life doesn't get much better than that!"

de Lamaar, N3AT

Club History

by Tom, N2TTQ

Hello I have received 2 emails thus far on the history of DLARC. I am seeking some info as to the clubs total membership, that is from its inception , of the call letters of members and as to whether they are silent keys or not. This could be another addition to the site showing all of its past and present member. With some sort of a write in memorial perhaps accompanying each member that is a silent key. Or a reference site could be added next to the club member's home page or history of that individual in amateur radio. If any have any more history to send please add to the stuff below and send to me. It could be come another project to take on the scan all the former newsletters for viewing in an archive like newspapers do. But that would be bitting off more than I could chew right now. Besides I have problems digesting newspaper, maybe some else would like to take that on. We are attempting to find some bulk scanning technique. There are just so many qsl cards! As it stand we have it on hold pending a better method. We could not find the letters, certificates and awards etc... Some one told me they are in the Barn. That I will have to find. Frank , kc2lgc has been loaning his scanner at present for this. I have a scanner but no way to hook it up to my computer yet as my mother board is only 90mhz. I am planning to up grade in the near future so as not to place so much on Frank. I is better than watching some boring TV show if any one is interested in helping out. It can be done in ones spare time at home while you have your wine cooler and are cruising the internet. Basically it is just scanning and emailing them to the collection site. Converting them to Jpegs. At present we have been forwarding them to Jeff, n3qzt. I am not certain how they will go from there. I take it Barry will assemble them in some fashion onto the club site. But not certain. Any one is welcomed to grab a batch of stuff to take home to scan. It is interesting reading too. So any other information on early club to date would be appreciated. Any trivia such as number of years Pa QSO was had by the club etc , also. Tom N2TTQ

I have some of the old documents, especially when DLARC was incorporated in the mid 1950s. I have old membership directories and the Constitution from the time. KA3WJF, Bob Milburn of Easton once volunteered to be the Club Historian and gather the documents, but I think the project got deferred. He had experience doing the same for other organizations. He has not been to Club meetings for many years. I see him occasionally at gun shows. I will ask him to return any such documents he still has. W3PYF had many items too. I have most of the W3OK Corral newsletters for the last 16 years, which I am willing to donate.

Bill, K3ANS>>

I am a founding member of the DLARC. (the last one living). The club was founded in 1946 by six or seven hams from the Easton, Nazareth and Pen Argyl area. The first meeting was held in a building on the Lafayette College campus and the name was selected. In 1996 the club celebrated its 50th anniversary with a banquet attended by 100 members and their wives. See Dick - KA3MOU for details. What else do you want to know? 73,

Van,K3CP

de Tom, N3TTQ

All Amateur Radio Operators are invited to
Participate in the DLARC, RACES & ARES nets
146.70 and 444.90 W3OK/RPT (pl 151.4) with an alternate of W3PYF/RPT 145.11
W3OK trustee Chris Hornaman, NU3L
The Nets are held on Wednesdays at 7:00PM

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==2002-2003==

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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 IU 20 Building in Palmer Township
TALK IN ON 146.70
Any comments or articles contributed to this newsletter
should be addressed to *(w3pyf @aol.com}* or Clarence Snyder, W3PYF Editor.
717 Porter Street, Easton, PA 18042-1548
visit our web page
http://www.dlarc.org

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DATED MATERIAL - PLEASE DO NOT DELAY

MEMBERSHIP EXP 12-31-03
ROBERT A GREEN KE3AW
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