THE DELAWARE-LEHIGH AMATEUR RADIO CLUB, INC.

NEWS

RD #4
GREYSTONE BUILDING
NAZARETH, PA
18064

* * * *

Presidents Letter
February 1987

The January meeting was well attended and I hope this trend will continue. Many of the Board members will shortly be busy contacting those of you who responded to the member survey. They will ask for your assistance or perhaps ask you to head a committee for our year of fun filled events. I'd like to see more operating so I have asked KU3X to set up a club awards program complete with something nice to hang on the shack wall. (certificates..etc.) We will start with a worked all states award, (starting date in the future..) and might even get to the point of having a DLARC DXCC. Now wouldn't that be neat!! Details at the meeting or talk to Barry.

I'm happy that the club is purchasing 2 handi-talkies as a fitting memorial to Bruce Cope KB3LF. Bruce loved public service operating and he would have been the first to recommend this purchase. The money for this, of course, was given to the club by his mother to use as we saw fit!

I guess that all of you know that our repeater antenna has seen better days and the January meeting attendees voted to purchase another. Cost..$550. Thanks to our fund raising efforts the money is THERE!!. A nice feeling, huh! Speaking of the repeater, why not check into one of the nets sometime. SUN/0930 and WED/1900.

We will shortly have the suggestion box up and running. It's going to be in the radio room at the club. We are not looking for complaints (these are to be directed to me). What we want are suggestions perhaps concerning new club projects. Ways to help us do things better, etc. If you have a complaint perhaps you can suggest a way to resolve it. WE WANT INPUT..No subject is sacred!

Dont be scared..lets ACTIVATE!!

73/88 KU3K

MINUTES OF THE JANUARY MEETING

The January meeting of the DLARC was on the second Thursday of the month (the first Thursday was New Years Day). The treasury seems healthy with $3470 in the bank.

Two new members were received in January. They are KA3QAV, Joseph C. Butz (Roy's son), and KA3MOU/KT, Richard Deck. Welcome to the DLARC Joe and Richard!!

We will be sending our newsletter to non-club members who will subscribe for a $5 fee.

The project to use the Bruce Cope, KB3LF, memorial gift to purchase two transceivers for the club has been fully approved and the transceivers should be on hand by the next meeting. The package includes two each of IC2AT, DC1, BP4 and CP1. With this arrangement, in the case of an emergency the dry battery cases can be fitted with alkaline batteries rather than taking a chance that the rechargables might have discharged. These transceivers will be marked with a KB3LF memorial plaque and will be easily identifiable. They will be employed for use in club activities as required. KA3EED reported on the Christmas City Station activities.

KC3II and W2CCE are now managing the volunteer examiner program having taken over from Dennis, KR3U. They are trying to form teams so that each examiner will only have to serve at three exams per year. To do this, additional VEs are required. Therefore, more volunteers are needed from the ranks of present VEs or extras who are willing to take the course and examination.

KU3X described a new club activity which will include a DLARC WAS award. No QSLs will be required, but logs must be kept and submitted. The kickoff date will be announced at the next club meeting. This looks like a way to have a good time within our ranks and for some to gain operating experience and awards.

We continue to have interference on the 70 machine. It is hard to understand why people, especially hams, indulge in such childish activities. As a matter of fact, this is getting to be risky business since the FCC has recently fined several amateurs for interference and has stated that their activity to apprehend and stop same will be "relentless".

The results of the membership survey were very gratifying. Bob, KU3K, read off the list of volunteers and congratulated them all for their willingness to help. Say, if you didn't fill out and send in your survey, (it was in the November Newsletter), please do. You will be part of a real fine radio club that will continue to get finer.

Don't forget too that all members are welcome to operate the club station at Gracedale. You must, however, be checked out by Barry, KU3X, and sign in and sign out when you use the station.

See you all at the next meeting. de W2CCE

"Good Amateur Practices" Group?

Don't be surprised if an Amateur Ethics Committee is created with the FCC supporting their recommendations to the point of issuing sanctions against those who violate Part 97.78 decreeing that "good amateur practice" should be observed by all licensees. At least one Commissioner is unhappy with the current direction and level of cooperation among amateur radio operators.

Florida amateur, Henry Luhrman, W4PZV, sent a letter to Commissioner Dawson protesting the activities of a group known as the "Black Sheep Net" who operate domestically in the so-called "DX Window" - 3.790-3.800 MHz. Dawson responded to Luhrman's letter and sent copies of her response to members of the net. Some answered her letter. In any event, the QRM went away -- at least for a while. It is now reported back.

Dawson wants amateurs themselves to spell out what they feel good amateur practice consists of. Jack Richards, Dawson's Legal Assistant, called in ARRL Washington Coordinator, Perry Williams/W1UED, last month to discuss beefing up of Part 97.78 and the possible establishment of an amateur ethics group which would discuss and decide on proper amateur operation. This would then be used as a standard by FCC monitoring stations and the Volunteer Monitoring Service.

Williams said that the concept needed the right kind of support from the FCC. He said FCC Field Office Personnel should make more of an effort to work with local auxiliary groups, interference committees, and so forth. He added, "The Private Radio Bureau should take the best cast they have got built on Volunteer Monitoring evidence before an Administrative Law judge. Until those things happen, the volunteers are not going to feel that the FCC is serious about using their help to clean up problems in the Amateur Service."

Richards also said that Dawson would like to write a "guest editorial"...for QST to stimulate amateur involvement.

Another interesting comment from Perry's report on his visit to Dawson's office is the Commissioner's are now beginning to feel that obscene and indecent speech are not necessarily always protected under the First Amendment.

*** W5YI REPORT ***

NEW SOLAR MODULE

Sovonics Solar Systems has introduced the Frontier-100, a full-size, flexible, thin film solar electric module. Designed specifically for small power systems, the Frontier-100 module is designed to fit applications in the market for remote residential and commercial electric power. The Frontier-100 can adapt to a broad variety of mounting environments, from traditional roof mounting to hanging from trees. It can be installed in minutes with a minimum of hardware. Made of Sovonics thin-film amorphous silicon solar cells, the two-foot by four-foot Frontier-100 module generates 32 watts in full sunlight. Sovonics is also introducing the Cabin Kit, a self-contained 12-volt solar electric power system. The Cabin Kit includes the Frontier-100 module, two 12-volt DC lights, a 12-volt DC electric outlet, a battery charge controller, and the wiring and hardware for the system. A single Frontier-100, on an average sunny day, will provide sufficient electricity to power a complete Cabin Kit through the evening . Additional Frontier-100's, lights, and outlets can be easily added to create a more powerful system. The targeted price for a complete Cabin Kit is $649.

*** COMPUSERVE HAMNET ***

Consumer Radio Service Update

The December issue of Personal Radio Exchange, the monthly newsletter of the Ann Arbor, Michigan, based Personal Radio Steering Group, says that the FCC seems to be backing off its Consumer Radio proposal. Docket 86-38 proposed to dismantle the General Mobile Radio Service (GMRS) and replace it with an unlicensed low-power hand-held Consumer Radio Service. It met with instant (and highly organized) opposition from GMRS users who frequent the old 8-paired channel CLass A UHF-FM Citizens Radio Service.

PRSG thinks that the FCC now might propose a modified version or abandon the Consumer Radio Service concept entirely. Action is expected by the FCC within 90 days. Another possibility is that the FCC, through "Novice Enhancement", might open up the Amateur Radio Service to wider public utilization.

*** W5YI REPORT ***

Food for Thought
by Mike Chepponis

Let me quickly recap what the Novice proposal is (from Jul 85 QST editorial). I paraphrased everything to make it shorter, except stuff in quotes.

1. Develop a plan for more efficient beacon operation - beacons now use 28.2 to 28.3 MHz.
2. Expand Novice/Tech at 28.1 to 28.3 to allow RTTY, AMTOR, packet to 1200 baud and allow CW & SSB from 28.3 to 28.5. ("Double-sideband AM would not be permitted, to prevent 27-MHz AM operating practices from being transplanted into an amateur band." - You always wondered what caused lids - now you know! It's Ancient Modulation! :-)
3. Revival of the '79 ARRL proposal for Novice privs at 220 MHz; all authorized modes would be allowed with output power of 25w max. Novices would be allowed to use repeaters, but could not be control ops of repeaters.
4. 1.246 to 1.260 GHz, 5w power out max. (The main reason for this is that the FCC might not be able to allow the proposed 220 MHz privs immediately, so this allocation would allow repeaters, packet, etc.)
5. Eliminate rule limiting all licensees to Novice power levels when in Novice sub-bands, so the privs of other licensees would not be reduced as a result of Novice enhancement.
6. Expand Element 2 (Novice) written exam to include basic digital communication and voice operating techniques & expansion of Novice exam to 30 questions from the 20 we have now (and the question pool from 200 to 300) to cover the new material. Present Novices would be grandfathered.

This petition was filed by the League on June 6, 1986 to the FCC by the League's Counsel.

All in all, I believe this proposal should be adopted. Yes, so we get folks on the air with just enough information to push a mic button or to key a TNC, but the important point is that we get more hams! I have never liked the "segregated" Novice bands - for the most part, Novices only QSO other Novices, and (worse!) only in CW. When Novices can share some of the spectrum with higher license classes and there can be interaction ("no, don't say '10-20', say 'QTH' etc.) then both the Novice and the higher license class ham benefit as in a student-teacher relationship.

My only real concern is whether anybody would want to upgrade given all the "necessary" privs: Packet radio & access to the forwarding system (via 10m or 220 MHz gateways), ability to help in public service (via 220 MHz FM repeaters) and Phone DXing on 10m (esp. when the new Cycle 22 really starts cooking). I have found from the Novice classes I teach every semester that the first thing folks want after getting their Novice is a Tech ticket. Since all they have to do is take the theory, they go for it and get 2m HTs, packet radio, satellites, etc. I find that once they get the Tech, they are stuck there because the 13 wpm seems like such an insurmountable obstacle or else they can't find the time to up their code speed.

Why do we need CW ability for any class except extra anyway? I mean, the general to advanced hop only gives you a few more khz of HF voice space anyway! Extras are nuts, no doubt about it, and if you made the exam twice hard and the code 40 wpm, I bet we'd have the same number of extras we have today. I guess I'm still burning from the lack of a US no-code license! I had a nice chat the other day with a Japanese novice - they get 10 watts, restricted freqs, and voice - without knowing the code. This person had to attend a club-sponsored "seminar" for several days, because apparently the theory is non-trival (I got the idea it was at about Tech/Gen level). Lots of Japanese hams start with this ticket. And who has big electronics trade surplus? And who has a big electronics trade deficit? I'm not necessarily saying this situation is due to the no-code ham license, just wondering...

And to throw another iron into the flames, why is the ARRL putting up a multi-million dollar ham radio museum? What a waste! If they put that money into, say, helping ham population grow, we might see results. Maybe the ARRL has gazed into their crystal balls and decided that ham radio doesn't have long to live, and we might as well get our history collection in order so we can say to our children "Yes, long ago when I was your age, I was a ham radio operator - but that's all illegal now. But look at all these pretty glowing glass bottles inside this box - wow!" Take all the antiques and give 'em away! It's the future I'm interested in!

73 -Mike K3MC

*** COMPUSERVE HAMNET ***

MORE POWER TO YOU
by Jeff AI7D

In my last article I talked about series pass power supplies and regulators. This time I will describe the linear or series pass regulator itself.

A series pass regulator consists of a voltage reference, a voltage divider, a control amplifier, and a pass element. (see fig. 1)

Figure 1 is a block diagram of a regulator. The pass element is shown as transistor Q. This is a good representation of a linear pass element because it is frequently the actual device used. The amplifier driving the pass element is shown as a triangle, with positive and negative inputs. Resistors Ra and Rb make up the voltage divider. The voltage reference is merely shown as a box.

The voltage reference is required so that the voltage regulator can put out a stable and predictable voltage. If the reference drifts around, then the output voltage will follow. It is important to have a reference that will "stay put" with temperature changes.

Figure 2 shows a simple schematic of a voltage regulator. The voltage reference consists of zener diode Z, and resistor Rz. The zener is a special type of diode that breaks down in a predictable way when a reverse voltage is applied. The resistor Rz is required to supply input voltage and to limit current through the zener.

Resistors Ra and Rb are used to divide the output voltage so that it will match the voltage reference. The voltage fed into the inverting input of the control amplifier is proportional to the output voltage. If the output voltage goes up or down, so does the voltage fed into the amplifier.

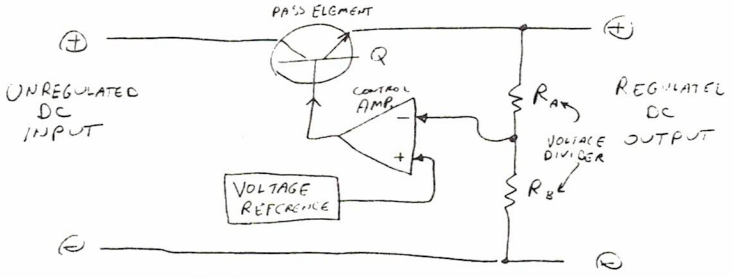
The control amplifier is shown as a type 741 operational amplifier, however, many other types will work too. This amplifier needs power to operate so a voltage is put across the V+ and V- inputs. In this case we are using the unregulated DC for this purpose. An operational amplifier or "op-amp" as it is called, has a very high gain, which means that if the inverting (-) input and non-inverting (+) input have a voltage between them, then the output will go either as high or as low as it can, depending on which input is highest.

The pass element consists of a single transistor, (in this case a NPN type), and a resistor Rd, which serves to limit the current through the amplifier.

The circuit works as follows; First an unregulated voltage is applied to the input of the regulator circuit. The reference voltage is then applied to the amplifier which puts the + input above the - input. The output of the amp. then goes high, which turns on the pass element transistor. Current then passes out into the load. As this happens, the output voltage rises and a divided portion is fed back to the amplifier which adjusts the transistors current flow until a stable condition is achieved.

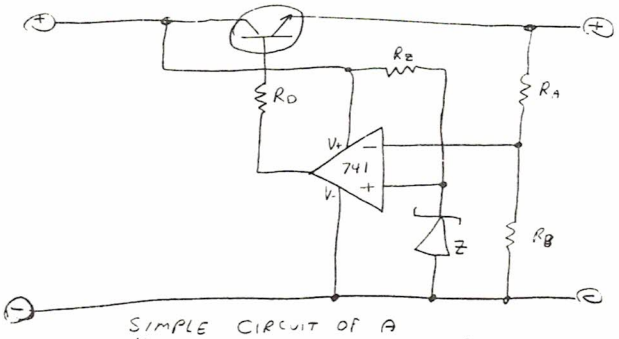
I hope all of this makes sense to most of you.

FIG. 1.



BLOCK DIAGRAM OF A SERIES (LINEAR) TYPE REGULATOR

FIG. 2.



SIMPLE CIRCUIT OF A VOLTAGE REGULATOR

DLARC CLASSIFIED ADS

HEATH 2m All mode amplifier. Model VL-1180 1-10 watts in for 15-75 watts out. 12 VDC. CONTACT: Bob N3DMI at 253-2177 evenings.

175 ft. Heavy duty commercial grade tower. 25 ft. sections, 24 in. triangular hot-dipped galvanized with bolts and turnbuckles. Valued about $9000.00
CONTACT: Ray W3TDF at 346-7313

The following articles are actual translations of news stories from the Soviet news agency TASS. They were searched in the IQUEST department of Compuserve during a Free Search weekend. Please excuse the lack of upper case letters as the only words capitalized are the words on which I searched.

MOSCOW

'We believe in human wisdom, in the will of the peoples to ensure peace', a correspondent of the newspaper sovetskaya rossia was told by pyotr proskurin, a prominent soviet writer.

'i have recently had occasion to travel over the usa, to visit chicago, san francisco and new york. My attention was in the first place involuntarily attracted by a purposeful anti-soviet, even anti-russian, i would say russophobiac masterminding of public opinion. Tens of television channels, the RADIO and hundreds of newspapers cram the american people with most absurd inventions about the soviet union, the russian people, their alleged natural aggressiveness and even blood-thirstiness. This is precisely the way the american people are deliberately indoctrinated for war against the soviet union.

One cannot help thinking that the propaganda of war in that country, which takes pride in its wealth and abundance of commodities, has become the main strategic axis, on which the very prosperity of the system depends, that this is the most powerful lever in the reckless movement, as a matter of fact, into nowhere. 'there are people in the west who pessimistically believe that mankind has already entered the period of its suicide, and the whole of its remaining life is only in preparation for the last fatal masquerade. Such ideas rob the human soul and play into the hand of the western militaristic propaganda turning the individual into a heap of rubbish.

I am weighing all the pros and cons and i would very much like to believe that mankind's better part will muster strength enough to stop in time, that even in a minute of despair one should not think that man has reached in its development the limit. Such ideas cannot be accepted by people of common sense. '

'what would i say, if i had an opportunity to address the members of the US Congress? I would tell them the following: 'gentlemen, you are, perhaps, the most practical people in the world. You have stockpiled mountains of dollars and gold. But what for? Is it for the sake of living up to a time when one disappers all of a sudden? Imagine how your body and your 'immortal' christian soul, which you so much cherish, disappears since it will have nothing to do over the dust of ashes driven by the wind, into which the last war will turn our earth. Can you be all sick and tired of life? Has america turned into a land of self-murderers? Can you yet doubt that war has ceased to be a method to resolve international and particularly global conflicts? Do you really think the call for a new mentality in world politics to be a propagandist move of the communists? Don't you really understand that a new mentality is not a fruit of imagination, but the objective necessity opened by progressive minds for mankind's further existence? If so isn't it high time for you to stop? ..'

I believe that the self-preservation instinct of the american people will in the long run work. The american people are not self-murderers. The only thing is that there should be no fatal accident, whose probability uncontrollably grows right in front of us. We have faith in human wisdom, in its ultimate triumph. Therefore we expect that words should turn into deeds and it is with this hope that we have entered the new year of 1987.

TASS - Telegraphic Agency of the Soviet Union

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*** COMPUSERVE ***

MOSCOW

Staff member of moscow's RADIO ASTRONOMY institute alexander arkhipov offers a new hypothesis concerning ways of searching for developed civilisations in space.

He believes that the search should centre on broad-band RADIO emissions connected with other worlds' industrial activity.

Arkhipov holds that such activity should be accompanied by RADIO emissions with a frequency of 100 to 1,000 megahertz, as these worlds, in his view, spend the same share of their aggregate energy power in RADIO emissions in this wave band as mankind.

Besides, technologically developed civilisations are sure to locate their power-intensive production facilities and zones of high power consumption beyond their planets for ecological reasons.

Proceeding from this assumption, arkhipov asserts that up-to-date radioastronomical equipment is able to spot industrial zones of some extraterrestrial civilisations in the form of weak RADIO sources near 'yellow dwarfs' like the sun. Such sources should have a shift of one minute of arc from the star. Among 4,050 stars of this type arkhipov has discovered nine with RADIO emissions recorded near them.

Arkhipov is optimistic: 'modern science knows of no circumstances that would prevent these stars from having intelligent life. That is why RADIO sources near the stars can be of interest in searching for extraterrestrial civilisations'.

TASS - Telegraphic Agency of the Soviet Union

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*** COMPUSERVE ***

"OSCAR ARCHIVES" Formation Announced

To mark the 25th Anniversary of the launch of OSCAR-1, members of Project OSCAR User's Group formally announced the establishment of the OSCAR Archives. Since the concept of OSCAR was first considered, a tremendous amount of notes, photographs, records, papers and other important documents related to OSCAR have been accumulated.

Initial deposits into the archives include the data records from OSCAR-2 (from Bill Walters, W6MKE), the OSCAR-8 command module used by Bud Schultz, W6CG (donated by AMSAT-NA), records of OSCAR-1 from Chuck Townes, K6LFH and numerous historical slides from Norm Chalfin, K6PGX. Storage containers for the volumes of data and photographs are in the process of being constructed.

Negotiations are underway with Foothill College for a secure location to place the entire OSCAR archive collection. The decision to contact Foothill College is the result of their continuous support for OSCAR which dates back to the early days of the program. Dr. Robert Southwick, W6JZU, an original member of the Foothill Board of Trustees (and the current Board president) has always provided OSCAR his positive support.

*** W5YI REPORT ***

FCC PLANS NEW CB CRACKDOWN

The FCC says it's launched a campaign to end use of illegal citizens band amplifiers. According to the AP, the amplifiers don't do much to increase the range of the CBs, but they can put the illegal operator's voice on a neighbor's telephone, radio, television, video cassette recorder, record player or tape recorder. "People's tolerance for interference is good until it is repeated over a long period of time," said Richard M. Smith, chief of the FCC's field operations bureau, who ordered the crackdown. "You can get pretty tired of the same guy interfering with your viewing of 'Dallas' every Friday," he said. In addition to hearing a voice, television viewers see diagonal lines running across the screen every time a nearby transmitter is turned on. Earlier enforcement campaigns eliminated most manufacturing and sales of the devices, but Smith estimated tens of thousands of the high-power CBs are still in use. Violators of the booster ban are subject to a $2,000 fine from the FCC. Smith said he now plans to press criminal charges, which would lead to higher fines and possible jail sentences for violators. Smith has ordered his field offices to devote more resources to following up citizens' complaints about high-powered CB interference.

*** COMPUSERVE HAMNET ***

Can you recognize this piece of work?

Party of the First Part, in loco parentis, wheresoever domiciled, resided, or otherwise situated, may you be tendered the respect benefitting your station. May your estate be conveyed without encumbrances, your requests be honored in common law as in probate. Furnish us, your rightful dependents with reasonable daily subsistence. And grant us full and absolute remission of all obligations and liabilities in the same and equal measure as we may grant such remission to others similarly situated. Accept our petition for relief from any and all provocations, enticements and blandishments that might induce us to commit acts of turpitude and grant us immunity from self-incrimination. For in you are vested the right of eminent domain, habius corpus, and certiorari in perpetuity.

I'm sure all the law students got it. It's the Lords Prayer in legalese. Hi-Hi

*** ARNS ***

Written Examination Credit Delayed

The FCC has notified VEC's to postpone allowing examination credit for all amateur operator written examination elements until approximately January 15th. Gettysburg's Larry Weikert, Chief of the General Radio Branch notified VEC's by telephone of the delay on December 18th -- three days after the provisions of PR Docket No. 86-63 were to have gone into effect.

Weikert said the new rules allowing VE's to administer written tests (and to issue a one year credit certificate if the required telegraphy examination was failed) "were to have been effective December 15, 1986, but were contingent upon Office of Management and Budget approval of the required revisions to FCC Form 610. OMB has not approved the form yet, therefore the rules can not be effective. The instructions to VEC's at this point are not valid." I asked how we were to handle any examinations where written exam credit had already been given. "You will have to fight with DC," he said. We place a call to Washington, but as of press time, this matter has not yet been resolved.

The "Paperwork Reduction Act of 1980" requires OMB review and clearance on all public information collection activities. Weikert noted "it normally takes 60 days to approve new government forms." A November 20th FCC Public Notice asks for public comment on the new Application for Amateur Radio Station and/or Operator License (FCC Form 610). It lists the "Estimated Annual Burden" as "118,750 Responses, 9,856 Hours." The newly revised FCC Form 610 is not the only amateur radio form being considered by the Office of Management and Budget. A December 9th Public Notice confusingly notifies of a new Amateur Radio Operator/Station license "extension". This could be connected with the proposed Novice Enhancement proceeding. The "Estimated Annual Burden" on this is listed in the Notice as 40,000 Recordkeepers, 40 Hours." It could be something else!

*** W5YI REPORT ***

Household Member Ham Operation

Hearsay has it that the FCC may authorize family members to operate ham radio under the authority of the amalteur's operator/station license. While this is probably "groundless gossip", the Commission's Office of Plans and Policy did indeed make this recommendation as part of their Working Paper #20 released this past August. Here is a quote from page 85 of the report written by FCC Researcher Jim McNally (and amateur WB3APV). "The Commission may wish to inquire into the feasibility of permitting extensive personal communications...with members of the household of a licensed amateur operator being permitted to operate that amateur's equipment for home-to-mobile (or portable) communications, even if the licensed operator is not present or not a party to the conversation. All such communications would be identified by call sign of the authorized amateur operator, who would have ultimate responsibility for the proper use of the station. Interstate communications by such unlicensed operators need not be permitted, though there may be cases (particularly in emergencies) where they may be desireable. The operating discipline that is characteristic of the ARS may be sufficient to minimize abusive operation.

The cost associated with this approach is a potential shift away from the experimental/instructional communications of the ARS to more expedient communications, or purely recreationaly communications. Nevertheless, such a change in the fundamental nature of the ARS would still be in the hands of the amateurs who, in charge of this communications activity by members of their households, would be able to initiate appropriate action needed to maximize the overall value of their service (e.g. such type of operation might be confined to less desireable frequency bands), or cause such operations to be discontinued if significant problems developed.

*** W5YI REPORT ***

BY DOING JUST A LITTLE EVERY DAY,
I CAN GRADUALLY LET THE TASK OVERWHELM ME.

ASHLEIGH BRILLIANT



BAKER I. - KN4BPL/KH3 has deferred his Baker Island inspection trip until April. He will be joined by N5CMI/KH1. (See Issue 1-87 for continuing /KH3 skeds).

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COCOS I. - Now thru 31 January. TI9W, with his xyl, decided to extend their stay on the Island. Their homemade 10-meter 2-el quad finds lots of daytime openings near 28,550 KHz. They are also active on 14,190 KHz and are in one or more of the 20-meter DX nets every day. From 0030 UTC, find them near 7078 KHz QSX 7173 KHz. QSL: TI2KD.

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CROZET I. - FT8WA, worked on 7035 KHz at 0245 UTC. He is also regularly on 14,236 KHz between 1830 and 2000 UTC. QSL via F6FNU.

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FRANZ JOSEF LAND (on 160). - Check 1832 to 1834 KHz daily. UV1OO opens at 2300 UTC, UA1OT appears at about 0100 UTC and UZ1OWA joins the party for an hour between 0300 and 0400 UTC. On request, UV1OO QSYs to 3503 KHz between 2330 and 0001 UTC to give you an 80-meter contact. QSL all via Box 88, Moscow.

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IRAQ - YIØBIF runs Saturday skeds with IK3HHX near 14,200 KHz at 1300 UTC and then invites your call. QSL Ali to Box 24093, Baghdad.

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JORDAN - JY4MB near 3795 KHz from 0500 UTC. QSL via WA4HNL. ... JY9RL, within a few cycles of 7000 KHz, invites calls on 7003-5 KHz from 0200 UTC. QSL: WA6POZ.

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KOREA - HL9EP opens near 7007 KHz about 1045 UTC. QSL Calvin via KØVZR.

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LIBERIA - 2-9 Feb. DJ9SI writes that he may be assigned EL2SI or EL5SI or possibly A82SI on his arrival. He will be on at least 15-40 with cw and ssb. QSL to his home CBA. ... A82CN on 7006 KHz from 0200 UTC. QSL Jim to his EL2CN CBA.

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MALI - TZ6MG is near 21,270 daily from about 1500 UTC. QSL Dennis c/o his SWL-friend PA3656 via the PA QSL Buro. ... TZ8BG on 21,250 KHz at 1500 UTC and 14,190 KHz at 1900 UTC. QSL via F6FNU. ... TZ6WC is often on 14,227 KHz from 2000 UTC. QSL via DL4BC.

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MAURITANIA - 5T5RA on 14,160 or 14,190 KHz from 2130 UTC. QSL Robby to: R.W. Ackerman, c/o USAID/Nouakchott, Agency Internat'l Development, Washington, DC 20523.

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MONACO - 3A2EE is QRV following his Saturday skeds on 3780 KHz at 0740 UTC with his QSL Manager, F9RM.

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NORFOLK I. - If 14,220 KHz isn't propagating into your QTH during the wee UTC hours, try working VK9NS on 7188 KHz around 0730 UTC. QSL Jim to his CBA.

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NOUMEA - FKØAW on 14,203 KHz from 2030 UTC (long-path). QSL via F6BFH.

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PETER 1 ISLAND - A letter from their QSL Manager, LA6VM, says that the DXpeditioners LA1EE and LA2GV are scheduled to depart Christchurch, NZ on 10 January for the 15-day (depending on sea conditions) voyage to the Island. While enroute they will maintain communications with Eva, PY2PE, on 14,130 KHz. Because of the total need for this one, all operations will probably use split frequencies and only one callsign per band (3Y1EE or 3Y2GV). Proposed frequencies are: cw - 3505, 7005, 14,022, 21,022 and 28,022 KHz, ssb - low bands to be announced, 14,145, 21,245 and 28,495 KHz - QSX as announced. Depending on weather and ice conditions, a 5-day operation is planned from about 25 to 30 January. Your tax-exempt donation via the NCDXF will be appreciated.

Raymond Bilger W3TDF
R.D.# 1 Box 178 State Rd.
Coopersburg Pa. 18036

THE DELAWARE-LEHIGH AMATEUR RADIO CLUB, INC.

NEWS

RD #4
GREYSTONE BUILDING
NAZARETH, PA
18064

All Amateur Radio Operators are invited to participate in the DLARC Nets on 146.70 W3OK/rpt.
The Nets are held on Sundays at 9:30 AM and on Wednesdays at 7:00 PM.
The alternate repeater for these Nets is 145.110 W3PYF/rpt.

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The DLARC NEWS is the Official Publication of the Delaware Lehigh Amateur Radio Club Inc.

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1987
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CLUB MEETING NIGHT

All regular meetings of the D.L.A.R.C. are held on the first Thursday of each month at 7:30 PM in the Greystone Building at Gracedale.
Phone....759-2600

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Any comments or articles contributed to this newsletter should be addressed to:
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