

# GLOUCESTER COUNTY AMATEUR RADIO CLUB

**W2MMD**

## 1992 OFFICERS

President ..... Marla Bozarth ..... N2DWR  
 Vice-President ..... Joe Wells ..... N2KLE  
 Treasurer ..... Chuck Colabrese ..... WA2TML  
 Recording Sec. .... Peter Butler ..... KA2DZF  
 Corresponding Sec. .... John Fisher ..... K2JF

## Committee Chairpersons

Advertising ..... N2KLD  
 ARES/RACES ..... WA2USI  
 Awards ..... K2ZA  
 Banquet ..... N2KLD  
 Chaplain ..... //Open//  
 Constitution ..... WB2DXB  
 Crosstalk ..... N2DUZ  
 Data processing ..... K2PQD  
 DX ..... K2JF  
 Field Day ..... N2DWR  
 HAMFEST ..... KA2DZF/N2KLE  
 Help/Welfare ..... //OPEN//  
 Historiam ..... //OPEN//  
 Hospitality ..... N2AIV  
 Legislation ..... K2JF  
 Membership ..... N2KLD  
 Nets ..... WA2TOP  
 Publicity ..... WA3UVV  
 Repeaters ..... WA2TML  
 Site ..... N2AIV  
 Scholarships ..... WN2T  
 Special Events ..... WB2OYQ  
 Sunshine ..... KB2EUA  
 Technical Site ..... KN2U  
 Training/Testing ..... WA2VQG  
 Ways & Means ..... N2FNF

## Directors

3Yr .... Jim Mollica Sr. .... K2OWE  
 3Yr .... Chris Chamberlain ... N2IVN  
 2Yr .... Ken Bozarth ..... KN2U  
 2Yr .... Irma Colabrese ..... N2FNF  
 1Yr .... Bob Layton ..... KB2COB  
 1Yr .... Wesley Gosbin ..... KB2IRK

## Trustees

4Yr .. Joel Supkow ..... KB2AYW  
 3Yr .. Milt Marder ..... WA2FGA  
 2Yr .. Howard Marder .... WA2IBZ  
 1Yr .. Virginia Macrie .... KA2ZZA

## CLUB REPEATERS

147.780/180Mhz                      224.66/223.06 Mhz  
 442.100/447.100 Mhz (CTCSS 131.8)

## CLUB NETS

ARES/RACES .... Sunday at 2200Hrs on 147.780/180  
 and 224.66/223.06 Repeaters  
 10 Meter ..... Sundays immediately after the  
 ARES/RACES net.on 28.350 Mhz

Because of the Holidays,  
 Input for the January 1993  
 Crosstalk, is due to the  
 Editor, not later than...

**2000Hrs, December 17!**

*Thanks & Happy Holidays!*





# G.C.A.R.C

## President's Message

### December 1992



Here we go..it's December!!!! This year has flown by!!!! I'd like to thank everyone for their support this past year, and I hope that you feel we got some things accomplished. There are still a few things that I will try and get the next regime to follow through with. I may not be holding an office with GCARC, but I will be there to volunteer my time whenever I am available. We had a terrific year with the Hamfest, the 4-H Parking and every parade and bike-a-thon/walk-a-thon we participated in. They all went off really well with no incidents. Thank you to everyone who came out and gave up some of their time. Now is the time for YOU to voice your opinions on what you expect from the club, and in what direction you would like the club to go. Without your input, how are we to know????? Please, stand up and have your opinion heard!!!! (Just wait until you hear me from in back of the meeting hall!!!!)

Thanks again to all, and good luck to the new officers of 1993!!!!

Have a safe and Happy Holiday Season.....

73... Marla N2DWR

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#### **FROM THE DESK OF** **THE SECTION MANAGER**

de Bruce Eichmann, KE2OP

I am pleased to announce the appointment of Marla Bozarth, N2DWR as Assistant Section Manager for Youth Activities. Marla will be taking on a very important job to provide a program that will enable the many young hams that have recently entered this great hobby of Amateur Radio.

By this notice, we are spreading the word to all of the amateur radio clubs in the Southern New Jersey Section to make everyone aware of this project. We hope to provide support and assistance to these young people through practical instruction with group programs that can be given at local club meetings. The activities in amateur radio are too numerous to list them all. However, to name a few like DXing, Contesting, Packet Radio, The use of computers in amateur radio, and satellite communications just to name a few.

The first order of business will be to establish a series of 2 meter nets throughout the section to get the young people talking together, exchanging ideas, and establishing their own agenda and goals. With this in mind, we will need volunteers from the ranks of the experienced, to serve as advisors and counselors to pass along the vast experience and knowledge that many of us "older" hams have acquired over the years. Please consider this and get involved. If you wish to volunteer, please contact me or Marla

It is refreshing to see so many young people showing an interest in ham radio. We can go a long way in closing the "Generation Gap". All we have to do is care, and show our support by giving them our help.

Until next time, 73  
Bruce Eichmann, KE2OP  
Section Manager  
Southern New Jersey

**N**OMINATIONS FOR THE 1993 GCARC officers were completed at the November General Membership meeting with the following nominations made:

4yr Trustee ..... N2DWR - Marla Bozarth  
 3yr Director ..... N2DUZ - Harry Jessen  
 3yr Director ..... KB2ODL - LeRoy Brady Jr.  
 1yr Director ..... N2NLE - John Cliver  
                                   KB2IRK - Wesley Gosbin  
 Treasurer ..... N2FZ - Bill Mollenhauer  
 Corresponding Secretary K2JF - John Fisher  
 Recording Secretary ..... KA2DZF - Pete Butler  
 Vice President ..... KN2U - Ken Bozarth  
                                   N2DUZ - Harry Jessen  
 President ..... WA3UVV - Cory Sickles

Changes from last month were: N2IMK, Gene Wallace, removed his name from nominations due to his relocation this month to Ohio, and WA3UVV, Cory Sickles, accepted the nomination for President removing his name from nomination as Vice-President.

All nominations are now closed and will be voted on at the December meeting by the General Membership. Be sure to make the meeting and have a say in who is going to run *YOUR* club for the next year! See you at the meeting!!

N2DUZ\Harry  
 Crosstalk Editor

Santa Project

Santa Claus has agreed to be on the Ham Bands again this year. As in years past, Santa will be available to speak with the children in the area. Keep your eyes and ears open. The information, which as yet has not been finalized, will be announced on the GCARC repeater (147.78/18) and on Packet on the KF2AW BBS.



Sonny, WB2DXB  
 Coordinator, Santa Project 1992



**F**OR THE MONTH OF DECEMBER WE WISH THE FOLLOWING A VERY HAPPY BIRTHDAY:

<u>CALLSIGN</u>	<u>NAME</u>	<u>DATE</u>
N2SBQ	Kelly Glans	4th
N2SIX	James Coombs Sr.	5th
KE2ES	Tom Gorman	5th
WA2VQG	William Helmag	6th
W2LVW	James Peck	7th
N2PKT	Louis Iocona	11th
W2SPN	Norman Williams	12th
WB2HVJ	Norman Williams	14th
N2MOO	Donald Seibert	17th
NT2N	William O'Donnell Sr.	18th
KA2ZRN	Joanne Weiler	19th
K3WIN	Arthur Goldman	19th
WB2AOL	James McDonald Jr.	29th

If you have not already done so, please pass along your birthday to K2PQD so it can be input into the club's database and you can be recognized when it rolls around. See Charlie at the meeting or write to him at:

C. Sketchley (K2PQD)  
 22 G. Street  
 Woodbury, NJ 08096-1413

Thoughts from a Club Newsletter Editor

I have a spelling checker  
 It came with my PC  
 It plainly marks for my revue  
 Mistakes I cannot sea.  
 I've run this poem threw it,  
 I'm sure your please two no.  
 It letter perfect in its weigh!  
 My checker tolled me sew!

DID YOU KNOW....

According to scientists at the University of California at Irvine, our brains become more efficient as a task is learned. The brain may be use less energy as it learns because as one researcher said, "... it learns over time what circuits not to use to perform a task."

Source, Chronicle of Higher Education

WHY ARE HAMS CALLED HAMS?

HAVE YOU EVER WONDERED why we amateurs are called hams? Well, it goes something like this:

The word "ham" was applied in 1908 as the call sign of one of the first amateur wireless stations operated by members of the Harvard Radio Club. They were Albert Hymen, Bob Almy and Peggie Murray. Tapping out such a long name in code soon called for a revision, and they changed it to Hy-Al-Mu, using the first two letters of each name and identifying the station as HAM.

In early pioneer and unregulated days of radio, amateur operators picked their own frequencies and call letters. Then, as now, some amateurs had better signals than some commercial stations. The resulting interference finally came to the attention of congressional committees in Washington, and they gave much thought to propose legislation designed to critically limit amateur activity.

In 1911, Albert Hyman chose the controversial wireless bill as the topic of his thesis at Harvard. His instructor insisted that a copy be sent to Senator David Walsh, a member of the committee hearing the bill. The senator was so impressed that he sent for Mr. Hyman to appear before the committee. Hyman was put on the stand and described how the little amateur station, HAM, was built, and he almost cried when he told the crowded committee room that if the bill went through, they would have to close up the station because they could not afford the license fees and other requirements that were set up in the bill.

The debate started, and the little station HAM became a symbol of all the little amateur stations in the country that were crying out to be saved from the menace and greed of the big commercial stations who did not want them around. Finally the bill got to the floor of Congress, and every speaker talked about the poor little station, HAM.

That's how it all got started. You can find the whole story in the Congressional Record. Nationwide publicity identified the station HAM with amateurs. From that time on to this, in radio, every amateur is a "ham".

Tnx to VE3TGR and

"SPARKS" the newsletter of the  
Delta Amateur Radio Club, Memphis Tenn.

Tnx K2JF

- \* City ordinance in Los Angeles prohibits poking a turkey to see how tender it is.
- \* In Hanford, California, people may not interfere with children jumping over water puddles.
- \* It's illegal in Walden, New York to give a drink of water to anyone unless you have a permit.
- \* In Kansas it's illegal for eating places to serve ice cream on cherry pie.

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**EACH ONE - REACH ONE**

This month, Army MARS in cooperation with the National Traffic System is highlighting Operation: HolidaysII - a public relations campaign promoting the use of radiograms by the general public. The basic theme of this year's campaign is...EACH ONE - REACH ONE. If each operator can reach one member of the public and generate the use of our services, the benefits to everyone would be immeasurable. Both the National Traffic System (NTS) and MARS are available for the sending of messages. They have both earned reputations for being top-notch services. Most of the public doesn't know that either service exists. The public needs to know that both the NTS and MARS are up and running and are very capable of carrying messages to and from loved ones.

The ultimate goal is to develop such familiarity with the two traffic systems that the sending of radiograms becomes a natural ingrained habit for people everywhere. This is where amateur radio clubs like GCARC enters the picture. GCARC has several traffic handling operators representing both systems. GCARC also has the capability of informing the public about the availability of the free and reliable services offered by amateur radio. GCARC also has the capability of referring the public to the appropriate operators.

Message handling skills are essential to the emergency capabilities of both groups. Only an informed public can generate the message traffic needed to keep traffic handlers' skills at optimum levels - skills that are developed for use in times of public emergency or disaster.

Only the amateur radio community can get the word out to the public. Act now! Talk to your family, your friends, your neighbors. GET INVOLVED! The future of amateur radio as a national asset may well be at stake.

Thanks. Lori/N4ZCF

**I**S THERE LIFE AFTER DXCC(or Before)? If you are a Technician or Novice, there are many awards besides WAS & DXCC that you can try for just by working US hams or even just Delaware Valley hams.

Some are pretty easy, like to MG-5 Award from Japan. You must work 5 different stations where the last two letters of the suffix are the same as yours. (Not necessarily in the same order.) Another type of award has you spell something using the letters in the callsigns. An example of this is the Northern Kyushu DX Award where you spell Northern Kyushu DX Club using the last letter of the callsign.

Harder awards would require that you start to work some DX. The easiest ones to work for us are Canadians on 40 meters. Try the Atlantic Providence Award for working Nova Scotia New Brunswick and Prince Edward Island.

Some awards are short time awards only. The OM-60 Diploma for working 5 special OM prefix calls from Czechoslovakia during 1991 is an example of this one. A current one is the Christopher Columbus Award for working some Italian stations, a special station and a station from Genoa.

If you go to 15 meters, you can work anywhere in the world, but now you start to be limited by daytime only or weekend operation.

You can find out about some of these awards by looking in the ARRL Operating Manual. The place to find out about the great number and variety of awards is to get a copy of the K1BV DX Awards Directory. The 1992 edition lists over 1,980 worldwide awards.

To begin, I think it is best to either pick an award or awards you know you can get with your license and equipment or pick a country with many hams such as Canada, Russia, Germany or Japan. Canadians and Eastern Europeans are plentiful on 40 meters in the evenings. I find it best to accumulate cards. When you have a bunch from your country of interest, start to put them in some order so that you can see what you need to complete an award.

For equipment, dipoles and 100 watts will do since you are not looking for rare DX stations and so there will be no pile ups. A little note on your QSL saying that you need the stations QSL for an award is flattering to the DX station and so will help you get your card.

Most awards(99%) are issued on the GCR(General Certification Rule) system. You need the cards, but you don't have to send them to the awards manager. Instead, you use a list of contacts and QSL information(GCR Form) and send it to the awards manager after having the form signed by 2 licensed amateurs.

Your entry into awards chasing won't really begin until you upgrade to General and can start to use 20 meters and more of 15 meters. But get your feet wet wherever you are. Start on some easy awards, and stay on CW. Soon you will have your code speed up to 13 WPM and can really chase DX awards.

73 DE N2FZ\Bill

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## **Praise for Amateur Radio Operators** **(Hurricane Andrew)**

From : N3ET  
To : SPCL @ARL  
Type/status : BF  
Date/time : 22-Oct 19:06  
Bid : ARLX038  
Message # : 19840  
Title : ARLX038 Governor Lauds Amateurs  
Path: !WB3EUF!N3ACL!N3ET!  
ZCZC AX98  
QST de W1AW  
Special Bulletin 38 ARLX038  
From ARRL Headquarters Newington CT  
October 22, 1992  
To all radio amateurs

Florida Governor Lawton Chiles has recognized the work of Amateur Radio operators in Florida following Hurricane Andrew in August. Chiles wrote the following to the ARRL:

“On behalf of the state of Florida, I am writing to thank the many amateur radio operators who assisted in the Hurricane Andrew relief effort. Scores of amateur radio operators rallied to south Florida from across the United States, helping to provide desperately needed communications to local, state, and federal agencies. They provided moral and physical support to local amateur radio operators, many of whom had suffered severe damage to their homes, yet provided around-the-clock communications at emergency operation centers, food distribution centers, and field medical facilities.

“Hundreds more assisted at their home stations around the country, passing health and welfare messages to concerned relatives of south Floridians. The amateur radio service can be proud of its members, who time and time again serve the country unselfishly. The state of Florida owes them a debt of gratitude and thanks.”

NNNN

-- End of message #19840 to SPCL from N3ET--

## ATLANTIC DIVISION HAMFEST SCHEDULE

1992

+ denotes ARRL hamfest

+NOV 22..... WACOM - HOUSTON, PA  
+DEC 6 ..... GODDARD ARC - LARGO, MD

## ATLANTIC DIVISION HAMFEST SCHEDULE

1993

+ denotes ARRL hamfest

JAN 16 ..... Skyline ARC Winterfest - Marathon, NY  
JAN 20 ..... Baltimore ARC - Timonium, MD  
+FEB 6 ..... Columbia AARC - Lancaster, PA  
+FEB 27 ..... Appalachian ARC - Lebanon, PA  
MAR 14 ..... York Springfest - York, PA  
+MAR 21 ..... Two Rivers ARC - Monroeville, PA  
MAR 21 ..... Penn-Del ARC - New Castle, DE  
MAR 27-28 . Baltimore ARC - Timonium, MD  
+MAY 16 ..... Warminster ARC - Wrightstown, PA  
+JUN 6 ..... Tamaqua Trans. Soc. - Tamaqua, PA  
+JUN 6 ..... Breezeshooters - Butler, PA  
AUG 14 ..... Fingerlakes/Tompkins Co. ARC  
                  - Ithaca, NY  
+SEP 11 ..... Radio Assn. of Erie - Erie, PA  
SEP 12 ..... Foundation for Amateur Radio  
                  - Gaithersburg, MD  
+SEP 12 ..... Butler Co. ARA - Butler, PA  
+SEP 25/26 .. York, PA

73 de

Hugh Turnbull, W3ABC,  
Director Atlantic Division ARRL @ WA3ZNW  
Kay Craigie, WT3P,  
Vice Director Atlantic Division @ WB3JOE

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As many of you are aware, Gene & Ginny Wallace (N2IMK & KB2JCQ) have now relocated to Ohio. They want to stay in touch with us back here & have left their forwarding address for all.

Gene & Ginny Wallace  
c/o Winslow  
3525 Westview Ave. NW  
Caton, OH 44709

Best of Luck!

## **DX REPORT**

By John Fisher AK2JF

I hope you all enjoyed the SS contest that was on over the week-end of Nov. 21 & 21. That was a good chance to pick-up your WAS or 5BWAS. It was fun.

The news from the Leagues is good. S21ZC, Rudi, Bangladesh has been approve. The Willis Is. (CW) cards are coming out that is VK9WW. Received mine on the 20th. The new countries of Croatia 9A, Slovenia S5, Bosnia 4N4, are sure busy. They have not been approved at the League as of this time. It will take a while before all the "static" is cleared away, but remember WFWL.

As a new DXer in our group (CW man) congratulations to Cliff, N2PLE for getting his Extra. Now Cliff you can really chase the stuff in the lower 25.

### **UPCOMING DX**

T32BE... by W5CP Paul will be active until Dec 6. He will be 99% CW on all bands. QSL via WC5P.

TU4SR... by OH8SR will be active until Dec. 21 all bands. QSL via OH8SB (CBA).

DL1VU's Pacific Trip... Karl DL1VU will begin this years trip and will be active in Dec. Look for these calls & places:

T32VU .....	Christmas Is.	Here is a chance for
KH5/DL1VU ..	PALMYRA IS.	all of you fellows
T31AF .....	CANTON IS.	to pick up some of
T30CT .....	TARAWA	more rare ones.
T33VU .....	BANABA	Especially the KH5
C3INI .....	NAURU IS.	and the T33. They
V63VU .....	KOSRAE	don't come up often.

KC6/DL1VU .. PONAPE  
DU1/DL1VU .. MANILA

Suggested frequencies (CW) 1825, 3505, 7010, 10105, 14027, 18073, 21027, 24895, and 28027. He will operate primarily CW, but will make SSB contacts when requested.

9X5AB RWANDA... Gernhard DF3ZJ will be active on CW, SSB, & Amtor on 20, 15, and 10 meters.

EP/S2/HA5BUS... cards are now being mailed from Budapest. Good luck! Hope to get one soon.

N0TTJ... is a YI operator KC4AAA U.S. base in Antarctica.

YI1MH IRAQ... is the personal call of Majid, one of the operators at YI1BGD.

JU83OC MONGOLIA... Now thru Dec 31.

JD1 MINAMI TORISHIMA... Now through Jan 14.

9G... Start January 1993

Good Dxing have fun. Thanks QRZ DX & others.

# PACKET RADIO AND THE GLOBAL VILLAGE

Packet radio has opened up exciting new possibilities for amateur radio. In order to appreciate it fully, however, we need to experience a paradigm shift in the way we think about 'communications'.

Traditionally, hams have used CW, Voice, RTTY, or other modes in communication with other hams. One common element with all these modes was the concept of communications in real-time. In other words, both operators had to be present at the same time in order to "talk" with each other. With the advent of packet radio, and the network of mail servers (BBS's) that literally cover the globe, (and a few that orbit) that is no longer the case.

We find ourselves, then, with a myriad of new ways to communicate with others. As an example, I can 'talk' via electronic mail to a new-found friend in another country. He (or she) and I can exchange information, learn about each other, our families, our work, our homes, our government(s), etc. and neither one of us has to worry about time differences, schedules, or any other time-critical concerns. We don't even need to have our stations on at the same time!

Speaking of stations, with a fairly modest one, (terminal / computer, 2 meter hand-held and tnc) you can communicate all over the world. Yes, the spontaneity and 'thrill' of working someone in a foreign country or rare state is missing, but you can still experience 'real ham radio' through other modes.

The idea here, is to go deeper than just a 'my rig is bigger than your rig' and RST-style of conversation. The idea is to exchange real information. (RAGCHEW!) Learn from each other. Learn about each other. Learn about yourself. While not immediate, your conversations will take place faster than mail, and cheaper than the telephone.

In the (near) future, our network will support more than just e-mail. Diagrams, pictures, sound, animation and more will be available. Certainly, more software needs to be developed and speeds need to be increased for these aspects to be useful. Much of this type of development is already being experimented with. Already, files and graphic images can easily be exchanged by using the TCP/IP package.

Why should you WANT to talk to other hams in more depth? Funny you should ask. We live in a world that is dynamically changing. That change is rapidly accelerating. Just look at a map of Europe. Look around your

living room and kitchen at the appliances that weren't there a few years ago. Think about how different the world and the attitudes of its people were just 5 or 10 years ago. What will the world be like 10 years from now? What will you be like?

I grew up in a time and an area which was very closed-minded and prejudicial. My family and my community was very good at stereotyping others. As an example, one thing I was taught was to fear the Russians. The lessons at home and in school made it clear that these people, nameless and faceless, were out to get me and my country.

That kind of thing disappeared later in life when I began to do the unthinkable; I actually spoke to some of these people, I found out that these were individuals, too. They had ideas, dreams and families not so unlike my own. The first time I had an opportunity to meet someone from the Soviet Union, I was certain he had an H-bomb hidden in his coat!.

I would never have discovered these things if I hadn't taken the initiative and invested the time to commu-nicate with these people. The power of communications and the exchange of ideas, information and friendship allowed me to know more about others and myself.

I don't have the time to 'physically' travel around the country or around the world making new friends. But I have the ability, through ham radio, to 'virtually' travel throughout the globe and make those friends. That is what this idea is about. Through the use of the packet radio network, I can apply the concept of the global village to know someone in England, Morocco, Canada or Zaire as well as I know my next door neighbor.

Even language does not need to be a barrier. For some time, software has been available to take a letter written in english and translate it into a foreign language. There is other software available to translate it back again. Start with something easy; contact someone in an english-speaking country. You can even start right here in the states. Contact someone in Georgia. Become bilingual, learn to speak Southern.

Every day, in between the 'sale' and 'flame-on' messages are others from hams looking to start up a conversation. They want to make new friends, to learn about others, to exchange ideas. Let them consider you as a friend. Share your ideas, knowledge and experiences.

Recently, I started to tap the power of our all-volunteer, 24-hour-a-day network. I enjoy the mail I get and look forward to its arrival. I'm having fun. Do you want to have some fun?

73, WA3UVV Corry

## "BELIEVE IT OR NOT"

The following is an excerpt from an article which appeared in the November 1992 issue of **WORLD RADIO MAGAZINE**. It was written by Jack Kelleher, W4ZC, and is only a small portion of his column, entitled "FCC Highlights" The subheading of this excerpt with text following is:

### **NO-THEORY PROPOSAL**

A proposal to establish a no-theory amateur license for operating privileges on all frequencies assigned to the Amateur Radio Service, leading to a no-code, no-theory license, was filed with the FCC on 2 June.

According to the FCC's Private Radio Bureau, the filing requests that the Commission establish a new class of Amateur Radio license that requires only a knowledge of Morse Code at 5 words per minute as a parallel entry license to the now popular no-code Technician Class. Such a license would have limited privileges on all amateur bands.

In addition, the request also asks for an entire restructuring of the overall Amateur Radio Service that would eventually lead to the establishment of permit-type Amateur Radio operation through a code-free/theory-free amateur licensing scheme, and to "reassess and redefine the goals of the Amateur Radio Service."

At the annual VEC conference in June, FCC staffers pointed out that a "no-code/no-theory" license would authorize "no privileges" to be consistent with the with the Communications Act.

The request was denied by the Commission on 27 July 1992. A request for reconsideration is not expected.

Tnx NJDXA NEWS VOL III/K2JF

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### How Many Are We?

As of November 21, 1992, these are the counts by license groups within the GCARC:

EXTRA ..... 45  
ADVANCE ..... 48  
GENERAL ..... 33  
TECHNICIAN... 75  
NOVICE ..... 6  
NO CALL ..... 13

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Total GCARC Members ..... 220

K2PQD\Charlie

## NEW MEMBERS

We will introduce 8 new members at the December General Membership meeting:

Robert Malaspina.....	N2SCA	(T)...	Hammonton
Thomas Shultz.....	N2NZR	(G) ..	Hammonton
William Godfrey.....	WB2VFX	(G) ..	Deptford
Walter Conover.....	N2SRH	(T)...	Glendora
Ray Wrzeszczynski ...	N/C	(T)...	Williamstown

### Complimentary Memberships:

Catherine Johnson ....	N/C	(N) ..	Pennsauken
Becky Johnson.....	N/C	(N) ..	Pennsauken
Garry Johnson .....	N/C	(N) ..	Pennsauken

Welcome to the Club!

Mary Ellen/N2KLD



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### For Sale or Trade

**MFJ-1278 TNC...** fully updated & in excellent condition. (Includes Procom and Multicom Programs.) Asking \$125, best offer, or will trade for 2Meter Hand held. Contact N2EDK, James Thompson.

**Okidata MircoLine 380 Printer...** used for Crosstalk in the recent past! Excellent condition. Asking \$175. Contact N2DUZ, Harry Jessen.



## The Truth About Electronics

As a newly licensed amateur radio operator studying to upgrade my privileges, I had a very hard time comprehending different terms. I did a lot of research in my local library and discovered some little known facts.

One of the most often used and least understood terms is VSWR. VSWR is a contraction of VEESWAR. The VEESWAR is a small creature that lives in coaxial cable. VEESWARs look like a cross between the Munchkins and Dopey. They're so small they can only be seen with a scanning electron microscope. The VSWR ratio shows how many VEESWARs will feed on a single WATT of power. A well nourished VEESWAR needs to consume only a single WATT to remain healthy. VEESWARs that are not taken care of require more WATTs to stay alive. For example, a community of VEESWARs that consume three times the necessary number of WATTs has a ratio of 3:1. But a community of VEESWARs that consume only what they need for survival will provide a ratio of 1:1.

WATTs are also small creatures that travel through your coax to feed and graze. These cattle-like animals are very lazy, and will take the easiest route available to obtain their food, which they call "ground". Ground-round is a favorite food of Humans. In the same manner, ground-loops are a delicacy for WATTs. In order to obtain this treat, WATTs will blow a hole in the side of your coax. WATTs were given their name by someone who asked, "How much power does an amateur handheld take to access a repeater?" When told the amount of power, he responded, "WATT?" The name and spelling took!

Many hams believe that their ANTENNAS actually send their signals into the atmosphere, to bounce off the ionosphere and eventually end up in some foreign land. Nothing could be further from the truth! ANTENNAS are actually cleverly designed devices that tap the combined energy of being. This energy was best described as the FORCE in the Star Wars trilogy. When WATTs travel through your coax, evading the hungry VEESWARs, they are sent by your ANTENNA into another dimension. There they wander aimlessly until they are sucked back into this dimension by someone else's ANTENNA.

Another term is db. When English was being formed from German origins, the term Hammer and Dumbbell were interchangeable. As the science of electrons was developed, early experimenters looked for a term that would describe the level of power being absorbed by their ANTENNA. The level of received energy is equated as "being hit by a sledgehammer." An S-UNIT refers to the sledge factor. Anything over an S-9 (equal to a nine-pound sledgehammer) is given in db. So a 20 over 9 would be equivalent to a nine-pound sledgehammer plus 20 dumbbells.

Understanding these terms will help hams run their stations much more efficiently. This keeps other dimensions uncluttered and our VEESWARs in good health. It also prevents sledgehammers and dumbbells from falling out of the sky.

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