

CROSSTALK  
PUBLISHED BY AND FOR THE  
GLOUCESTER COUNTY AMATEUR RADIO CLUB  
( W2MMD )

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G.C.A.R.C. OFFICERS

PRESIDENT	RAY MARTIN - WB2LNR
VICE PRESIDENT	JOHN BOKOLES - W2KI
TREASURE	ROSE ELLEN BILLS - N2RE
RECORDING SECT.	MARY JOE DARAKLIS - N2AJG
CORRESPONDENCE SECT.	ROSLYN MARDER - N2AKL

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DIRECTORS

JOSH BREHM	AE2L
DAVID BACON	WB2ONW
SONNY GUTIN	WB2DXB
BILL HELMETAG	WA2VQG
GARY HITCHNER	WA2OMY
JACK KESSEL	AB2W

TRUSTEES

FRED COWGILL	WB2GEK
BARRY CAMPBELL	W2YZ
BILL FRAMBES	WB2FJE
JACK WHITE	WA2MEM

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- COMMITTEES -

Program: John Bokoles - W2KI	A.R.E.S. : Harry McGormick - WA2SEA
Awards: Bill Bachman - WA2VEE	Technical: Bill Frambes - WB2FJE
Training: Chick Naylor - WA2USI	DX: Wayne Wood - W2SUA
Membership: Bill Helmetag - WA2VQG	Publicity: Sonny Gutin - WB2DXB
Contest: Ken Newman - N2CQ	House: Bob Ruple - WA2MMA
V.H.F. Tony Starr - WA2FZB	Historian: Della Parker - W2AFZ
Club call Trustee ( W2MMD ) Rose Ellen Bills - N2RE	

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HAM-FEST CHAIRMAN ----- JOHN THILL - WA2OOX

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CLUB NETS

2 Meter FM 78/18 Sunday 8:00 PM	6 Meter AM 50.9 Sunday 9:00 PM
10 Meter SSB 21.175 Friday 9:30 PM	15 Meter CW 21.175 Friday 7:30 PM
80 Meter CW 3.680 Call anytime.	80 Meter CW 3.705 Call anytime.

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The regular meeting of the G.C.A.R.C., is the first wednesday of each month at the National Park Municipal Hall, National Park, N.J. Meeting time 8:00 PM.  
Send all articles to be printed in Crosstalk to Jack Kessel/AB2W,

## - PRESIDENTS CORNER -

Hello to all and welcome to another month. This is especially a good month for Ginny and I. On April 17th, we had a new addition to the family. Her name is Michelle and she was seven pounds, twelve and one half ounces at birth. She is also 21-1/2 inches long. Both mother and daughter are doing fine. Thanks to all for the many congratulations. I am beaming from one ear to the other and walking around with pictures already. Sound familiar gang ?? Many thanks from Ginny too.

Well, no word yet as to where the hamfest will be held as of yet, but dont despair, we will know in a few weeks and pass it on.

Wayne Wood has resigned as Banquet Chairman so in his place es Steve Sosson. Steve/WAIAOF will need help in this project so lets all chip in and get the ball rolling for him. If you want to help in any way get in touch with him at the next general membership meeting.

Also dont forget Field Day is right around the corner. So lets get everything ready for another fine day of adventure. That's all for now, See everyone at the next meeting.

( RAY/WB2LNR )

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## DIRECTORS MEETING

The April meeting came to order at 8:08 PM , at the home of Bill/WA2VQG. in attendance was; Ray/WB2LNR, John/W2KI, Rose Ellen, Mary Jo/N2AJG, Roslyn/N2AKL, Sonny/WB2DXB, Dave/KB2GJ, Jack/AB2W, Josh/AE2L and new member Tom/WA2OOL.

New members voted into the club were; Wally/W2CB, Charlie/K2PQD, Leroy Hall no call. Carol/N2AHR, Mel/W2NM, Phil/WB2ONS, and James/N2AIV. Also Thomas Ulrich, no call given. We welcome you all to the GCARC, and hope to have you take an active part in the club.

The program for the May meeting is to be announced.

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## BIKE-A-THON ANYONE ? ?

Well, there I was on my way home with a trunk full of concrete mix to get a early start at putting in a footing for a new chimney, when I kept hearing this voice saying, we need someone in Newfield, we need someone in Newfield. Well, I'm not sorry to say that I made a detor for Newfield. I found a very nice group of people, that was very glad to see me and later on Mary Jo/N2AJG. We had a lot to do but it was all fun and Mary Jo is a vry gud operator both 2 FM and CB. One thing that we were not short of all day was FOOD and coffee. The 100 plus kids, was very happy when Vince arrived at the school to go bikeing with them. I would like to put in right now for Newfield next year. Chick did a fine job as NC during the whol thing and kept the show ON THE ROAD. There was a lot of traffic and everyone can be proud the way it was handeled. And thanks John for relieving me.

( Jack/AB2W )

# KENS CONTEST CORNER

Congratulations to Mark Wilson/AA2Z, who is this year's winner of the club DX Trophy for his top CW score, setting a new record for both CW and Phone. All scores were higher than ever, indicating a surge in sunspots and in GCARC ability. Mark now holds the club records for the Novice Roundup, VHF Sweepstakes and now the ARRL DX Contest.

## ARRL DX CONTEST CW SCORES

<u>CALL</u>	<u>QSO'S</u>	<u>MULTI'S</u>	<u>SCORE</u>	<u>HRS.</u>	<u>BANDS</u>
W2SUA *	1,108	253	840,972	40	All
AA2Z * operator .	*Trophy winner				
W2KI	896	208	559,104	28	ALL
N2CQ	1,040	171	533,520	30	ALL **
W2YC	700	210	441,000	27	ALL
AB2E	772	178	412,248	25	ALL
AB2W	433	119	154,581	16	ALL
K2HPV	289	102	88,434	29	All

## PHONE SCORES

AA2Z	665	207	412,965	26	High ***
W2KI	506	208	315,744	24	High
AB2E	528	186	294,624	24	High
WB2VFP	452	142	192,552	48	High
N2CQ	398	150	179,100	16	High
WB2VFK	408	136	166,872	-	High
W2YC	264	133	105,336	19	High
AB2W	<del>300</del>	102	91,800	10	High
KN2QWO	121	59	21,417	17	High
K2JF	57	34	5,814	-	All
K2HPV	43	31	3,999	9	High
WA2OOX	35	21	2,205	4	High

CW: - 3,029,859 Points & 7 Logs

----- CLUB TOTAL; - 4,822,287 ( 19 Logs )

PHONE: - 1,792,428 Points & 12 logs

\*\* N2CQ high bands.

\*\*\* CLUB RECORD.....

## CQ WPX PHONE RESULTS

N2SS	775	309	642,411
AB2W	164	125	58,375
WA2PFC	11	11	167

Don't forget the CQ WPX CW contest on May 26-27th. Megapoint Award credit will be given for those submitting a score for the club.

Nice to see N2SS/Tony in the club competition.

( 73, N2CQ )

# PROPAGATION FORECAST FOR MAY 1979 BY K2JF

As we enter our springtime season, and the solar index continues to climb, excellent operating conditions on 20, 15, 10 and 6 should occur. The lower bands 160, and 80 meters will become progressively noisy, but nighttime DX on 80 is a good possibility. Twenty meters and Forty should be open for the entire night and twenty will be the around-the-clock band for good operating. A nice surprise will be 15 meters. This band will be open just about all the time, but at night it will favor the south and west. Signals may not be as strong as the 20 meter band but some very good skip will be available. As Shorty/W2SUA says, "The DX is there, it's red-hot, just work it."

This month the solar index is now high enough for 6 meters to work off of the F-2 layer during the time from 1100 to 1500 possibly 1530.

Look Southward on 6, the Caribbean and Gulf states. Beside that condition we start our sporadic-E operation. It will really start in May and some real fine 6 meter short-skip will occur. Sporadic-E will normally occur between 1800-2000. When it comes in, it is possible for some good 2 meter activity this month. Here you can do 900-1300 mile skip, so you 2 meter fellows with your log-periodics go to it. You 6 meter boys keep your eyes on TV channels 2 and 4 and as they open up so will 6. Also, T.E. will be getting more prevalent, and you will find it between 2100-2300. Look south when it is in, since it must cross the equator at right angles.

## -ALL TIMES PITMAN-

160 To much noise. No more reports till Sept. Sorry Bob/W3NWA.

<u>80</u>	Europe	2130 - 0230
	U.S.S.R.	2030 - 0000
	Med.	2130 - 0030

<u>40</u>	Europe	2030 - 0400
	U.S.S.R.	2030 - 0000
	Med.	2230 - 0200
	Africa	2230 - 0300
	So. Pac./ZL	0200 - 0700
	Australasia	0430 - 0600
	Carib.	2100 - 0500

<u>20</u> **	This band will be open 24 hours to somewhere on the planet.	
	Europe	1300 - 0700
	U.S.S.R.	1300 - 0300
	Middle East	1700 - 0400
	Africa	Anytime
	Gen & S.Amr.	Poor at dawn
	Asia	1800 - 1900
	Far East	1730 - 2200
	Australasia	0300 - 0900
	Antarctica	1930 - 0230

<u>15</u>	Europe	1100 - 1900
	U.S.S.R.	1300 - 1700
	Med-Africa	1330 - 0600
	Far East	1800 - 2000
	S.Pac. et al	2000 - 2330
	S. Amr. et al	0900 - 0000

\*\*\*  
10 OK Bill/WA2VEE let's play piggy-back. I'll follow you with my QRP.

\*\* Try long-path on this band.

\*\*\* Late evenings openings to So. Pac.

GOOD DAYS HF: 1-3, 6, 8, 17, 21-22, 29-30.

VHF: 2, 17, 22, 29.

GOOD LUCK

Europe	1100 - 1600
Africa	1200 - 1800
Asia	1800 - 2200
Far East	1730 - 2100
Aussiland/ZL	1700 - 2330
S.Amr. Carib	1400 - 2000

## MEET YOUR CLUB OFFICERS

DAVE BACON

CLUB DIRECTOR

Dave is one of the SSTV opps. in the club, he runs a Robot 70-A and 80-A. One of the more interesting things that Dave is doing with his SSTV is, trying to work all states QRP with his CB-10 sideband rig. Quite an undertaking, but anyone who will go out and buy an Austin to fix up, will have no trouble working all states QRP. ( or is that an MG-B ? )

Dave also runs a Yaesu FT-101-EE and a Drake TR-33-C. He works all bands with the HF rig and also 2 meters. As a result of 11 meters and K2JJC, Dave got a interest in Ham Radio and was first licensed in 1977. He now holds the Advance Class license. The Barnsboro Repeater is another group that Dave is a member off.

When ever time permits Dave and his family like to travel. . Dave is employed as Territory Manager for Peirce-Phelps, Carrier Air Conditioning distributor.( Now we know who to see when we need a Air Conditioning unit )

Nancy, ( the better half ) and Dave have two harmonics, David and Carolyn.

( WB2DXB )

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FREE BOOZE !!!

Now that I have your attention, to get field day off the ground we need generators. At the last meeting no-one signed up to bring powerplants. If you know of one that can be on lone to us or if you have one of your own, PLEASE let Tony/WA2FZB or I know at the next meeting. We also need a 15 meter band chairman. How about some of the new members picking this up ? Its a lot of fun. Operator sign ups will be at the May meeting also. Band chairman you will be responsible for your stations radio, antenna and tent. ( JOHN/WB2VOH )

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\$\$ FOR SALE \$\$

GONSET LINEAR - GSB-201 3340-S/N G23168- 400W/AM, 1-KW/CW, 1500W/SSB  
HAMMARLUND RCVR- HQ129-X in excellent shape, with manual.

SWAN XCVR - ~~270XB35~~ 5-band 12/110 volts with DC supply and mic.

NATIONAL XCVR - NCX - 3, needs alignment and audio X-former. ( as is )

MIDLAND - Model 13-870C, 23-Ch, CB/PA recvr ok but no Xmit....

Model 22-223, Base mic, new and in box .... Model 21-408, Pa spkr 15W

8 ohm outdaor trumpet.... Model 23-136, Pwr/Swr meter, Dual meters....

FOR ABOVE PHONE,- Mr.Bessette

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2-KW LINEAR,- Hunter Bandit 2000C. in operating cond.

TEC TRONIC-531 Two trace plug in... Call Bob/WA2ONW,

2 Meter FM, SBE-144- 11pr Xtals. call AB2W

## A HIGH FREQUENCY LOW PASS FILTER FOR AMATEUR USE

The filter has minimal insertion loss up to the cut-off frequency of 30 MHz ( 3 DB POINT ) It is greater than 60 DB at 41 MHz and greater than 80-DB at 54 MHz, ( Channel 3 ) and greater than 86-DB at 84 MHz, ( Channel 6 ).

The filter consists of four constant K mid-sections and an M-derived 1/2 section at the input and output. Input and output impedances are center designed for 50 ohms impedance, however, 10% inductive or 20 capacitive will not overtly affect the cut-off frequency or change the 54 MHz insertion loss by 3-DB.

I have built the filter and it has performed excellently. The presented values are good for 100 watts. The coils will operate up to 500 watts, but the small dipped mica capacitors may not take the higher voltage if the filter should see a reactive load. The measured attenuation characteristics of the filter are shown as follows.

<u>Freq. in MHz. -----</u>	<u>DB Rejection.</u>	<u>Parts List</u>
30	.99	WIER - number 18 Formvar
35	- 34	L1 & L2 - 3 turns, 3.8" long X 1/2" ID.
40	- 70	
45	- 103	L2 thru L5 - 8 turns 7/8" long X 1/2" ID.
50	- 99	
55	- 100	C1 & C7 - 100 PF (calculated 97 PF )
60	- 102--Chan.3	C2 & C6 - 150 PF (calculated 145PF)
65	- 115	C3 thru C5-180 PF (calculated 182PF)
70	- 106	
75	- 119	2 - BNC connectors
80	- 116	5 - feedthru insulators
85	- 105--Chan.6	
90	- 102	Copper Clad Board
95	- 95	4- pieces 9x2x2"
100	- 95	5- pieces 1-3/4 x 1-3/4" (partitions)
		2- pieces 2-3/16x 2-3/16"(ends)

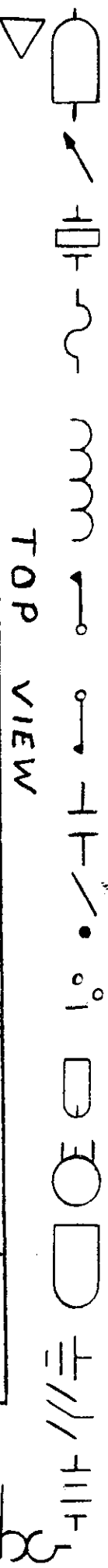
Filet one side, to the three surfaces, but tack solder 6 places top. Top will not detune filter on or off.

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### SCM NOTES

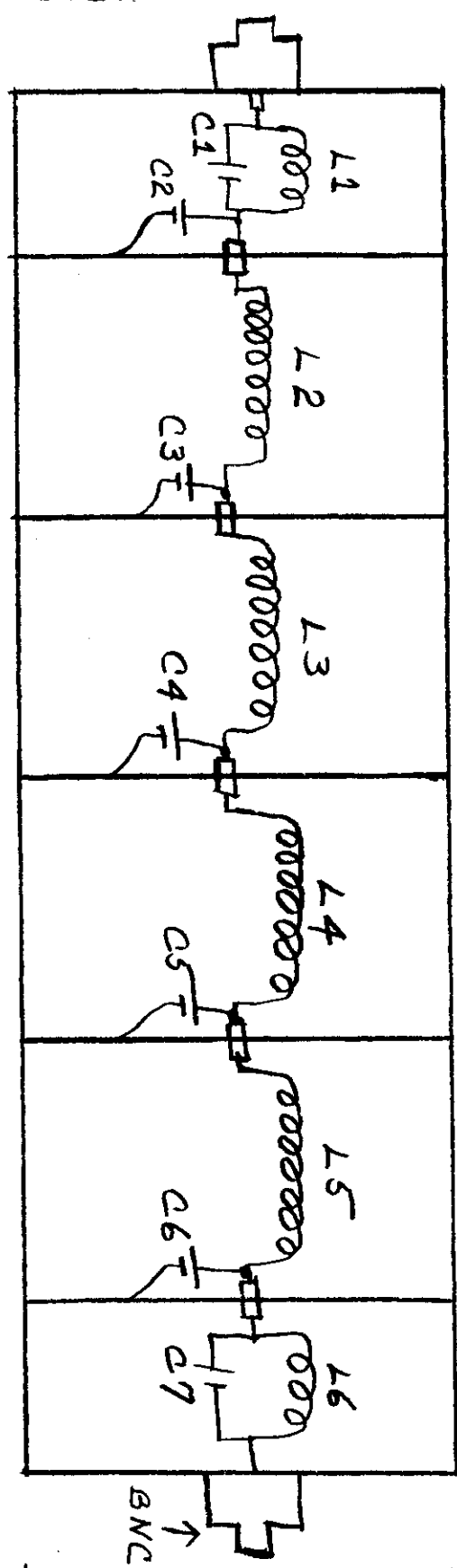
Starting next month, you will have a report from the section Communications Manager, Bill Luebkekmann Jr. WB2LCC. I will be glad to be printing this new column in Crosstalk. It will be nice to hear of other happenings going on in the Section.

If you have any topic that you would like to have Bill wright about, drop him a line or give him a call. Due to the small amount of space given to Bill in QST each month, He has decided to send a monthly column to the club papers in his section. I have to say that it is grate for Bill to take more of an interest in the section and I'm sure everyone will be looking for the SCM column in the next Crosstalk.



# HIGH FREQUENCY LOW PASS FILTER

TOP VIEW

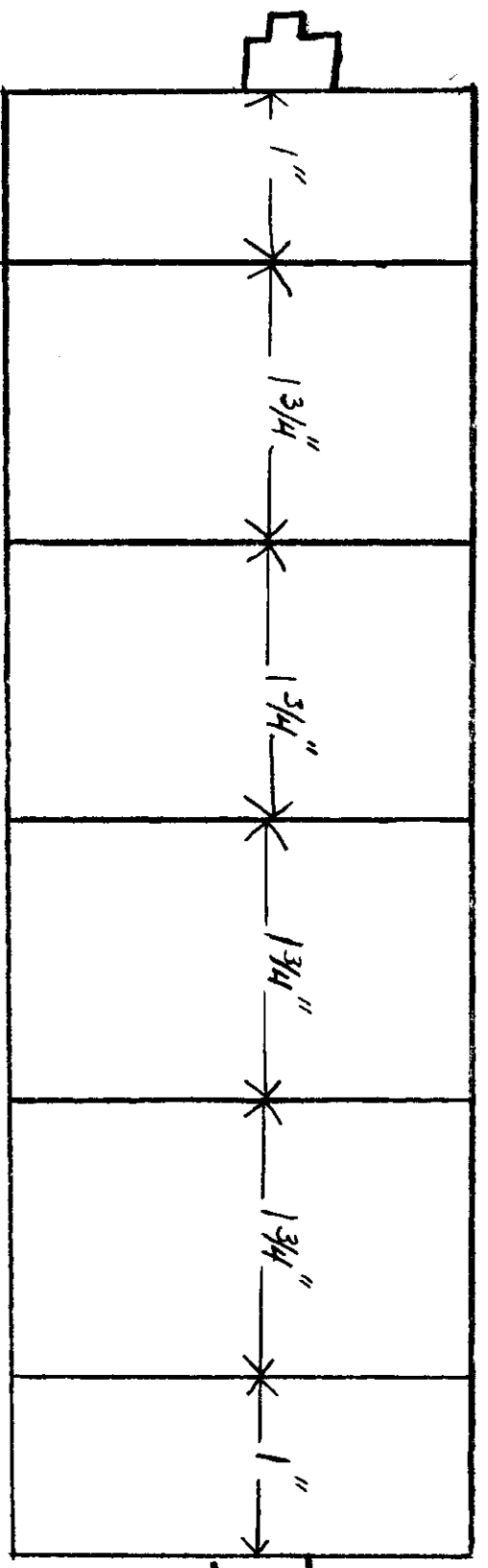


$Z_{IN} 50 \Omega$        $Z_{OUT} 50 \Omega$

BY JOHN-K2JF

9"

SIDE VIEW



GCARC is fortunate to have an HONORARY-CHARTER MEMBER to have served so faithfully for the first 19 years of our club on the Board of Directors as Corresponding Secretary and very often filling in another vacant spot to finish the term of someone who had moved away from the area. The office of President was turned down but all others were covered by DELLA -W2AFZ at one time or another. No job has ever been too large to handle. She is currently our HISTORIAN --- and, what person could be better suited than one with the club background as our Della.

At the time Della first acquired her license there were no classes to help obtain a ticket to operate amateur radios. It was all a matter of getting it on your own or the help of another licensed operator who might be able to help. Della has helped many many others receive their license, including our Treasurer-Rose Ellen, N2RE.

Being licensed over 50 years, Della has received a Certificate from ARRL indicating the years of amateur radio operation which was presented at a QCWA meeting a short while ago. She has many other acknowledgements and interesting cards from her hours of operating.

Della held a Commercial First Class License and worked for Radio Station WWAD. She was Communications Operator for the Immigration & Naturalization Service before going to RCA Service Company as Manager of their Message Center for a period of several years.

Along with the hobby of Amateur Radio, Della also has a keen interest in gardening, stamps and coins. She also sings in her church choir.

Della and her OM-Ivey reside in Westville where both are enjoying their retirement years engaging in their respective favorite pastimes and hobbies. They invite visitors to stop by when there is an opportunity to chat. As all of the longer-termed members already know, Della has never said any job for GCARC has been too large or time consuming to do.



HONORARY--CHARTER  
MEMBER -W2AFZ

DELLA M. PARKER of  
WESTVILLE, NEW JERSEY

MEMBER: GCARC/QCWA/ARRL

RIG: TEN TEC IV





IN MY BUSINESS  
ITS CALLED MELT DOWN