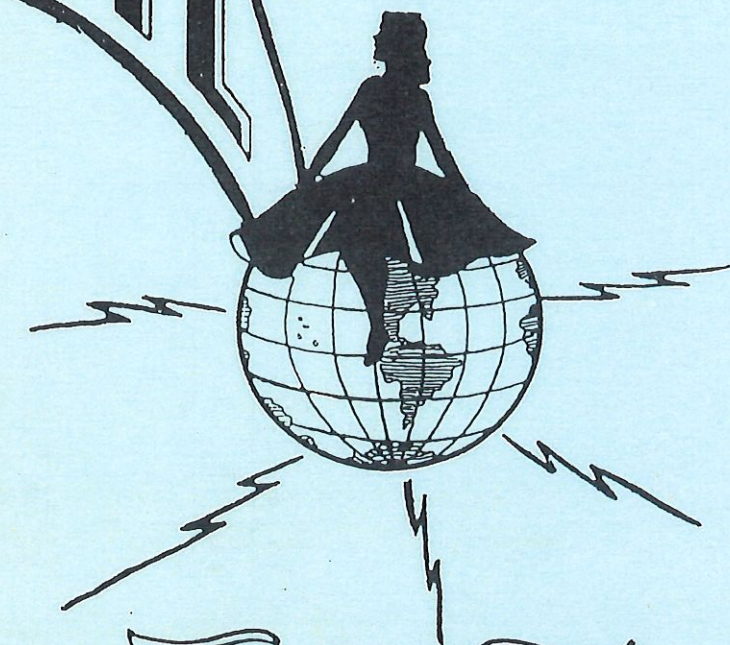


HARMONICS



1987 #2

Founded 1939

Mar ch

April



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 PO Box 2786, Globe, AZ, 85502-2786

YL Harmonics is published by and for the members of the Young Ladies' Radio League, Inc. YLRL is a non-profit organization (501 (c) (3)), comprised of women amateur radio operators, incorporated as such under the laws of the State of California. Dues are \$8.00 per year, due and payable March 1, and delinquent March 31. For new and reinstating members joining after August 31, the dues may be pro-rated by half the annual dues for that fiscal year (currently \$4.00). Add \$2.00 for first class postage, if desired. Dues for DX members are \$8.00 and may not be pro-rated for portions of years. In addition, \$3.00 for surface or \$6.00 for air-mail postage is required for DX members. Dues for a "family member" are \$2.00; subscriptions for non-members are \$8.00 per year and may not be pro-rated for portions of years.

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Marion Dixon, WA7TLL and Alice King, N4DDK

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Metropolitan Atlanta Ladies' ARC
7. Jeanette Ellis, W04U (see Continous Membership Custodian)

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Shirley Hunt, WB6VAU, Chrmn.
Burnette Boyett, K5JGC and Myrtle Farnsworth, N2AKC

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#   YL HARMONICS DEADLINES, 1987   #  
#   the first of the following months: #  
#                                     #  
#       #3, May, 1987                 #  
#       #4, July, 1987                #  
#       #5, September, 1987           #  
#       #6, November, 1987           #  
#                                     #  
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CIRCULATION MANAGER and

Jean Kincheloe, K60QD
P.O. Box 1446
Magalia, CA 95954

RECEIVING TREASURER
FOR YOUR DISTRICT

(See inside
front cover)

To avoid unnecessary correspondence, when writing to these ladies with your new information please indicate that you are notifying BOTH the circulation manager and the receiving treasurer.

Copies of the updated Constitution and bylaws are available. YL's who are interested in obtaining a copy send your request to the YLRL Secretary:

Carol Shrader, WI4K
P.O. Box 5614
Virginia Beach, VA 23455

MO DUES ,,

MO MEWS



DON'T FORGET to renew your membership!

YL Harmonics #1 carried a "membership renewal" form as well as a reminder on page 2. If you have not paid your dues by March 31st you are delinquent, and you will not receive YLH #5.

Hope you have supported our Nominating Committee and that many of you have sent nomination acceptance forms to run for office for 1988-89, so the ballot will have more than one candidate running for each office. A YLRL

YLRL was originally formed by a group of YLs eager to get acquainted with other YLs. We have grown and expanded our aims and purposes to include helping YLs to become amateur radio operators and encourage them to advance and improve their skills, to provide scholarship funds for YLs, and to offer special services to blind and otherwise handicapped YLs. This puts more emphasis on serving others, but getting acquainted with other YLs is really what it's all about today, as it was when YLRL began in October, 1939-

33.

Jackie, WBY KU

"Jackie" W6YKU

0@C0R0000R00CQ0@0R0QQR0R0R@090R0Q000<5»R0

• The BUCKEYE BELLES will have a Buckeye Belle/YLRL Booth at the Hamvention *
• again this year. Please stop at our booth and chat awhile.

- Also, a room has been reserved (for about 50 people) at the BARNSIDER •
- ' Restaurant, 5202 North Main St., Dayton, OH 45415 for Friday evening, •
- » April 24 at 7:00 p.m. If you would like to join us there, please notify e
- » W8VWL-Ruth Silbaugh, 3510 Ridge Ave., Dayton, OH 45414 (Phone: 513-®
- ® 275-7697) immediately. •

NOTES FROM THE CIRCULATION MANAGER

First a few personal notes for those who don't know me or who have forgotten about me. I was Treasurer of YLRL for three years in the days when we only had one Treasurer who did all the work—AND, without computers! Then I was President for one year after that. In my third year as Treasurer, I became pregnant after trying for ten years! This somewhat complicated my work for YLRL as I had morning sickness the whole time. Also, I worked on the publishing and mailing of YLH. That was at the time too that I handled the incorporation of YLRL. My daughter Kate was born while I was President of YLRL and no baby ever had more "aunties". I put all the cards in two big scrap books which my daughter now treasures. I even kept many of the lovely presents which Kate has in her hope chest for the time if and when she ever has a harmonic. There is the Texas Tinkle Pad; the beautiful blanket embroidered with QRM in the corner; the lovely, hand woven, blue pick-up shawl which K6BUS brought me from Virginia, just to name a few. Anyway, you can tell I am not new to YLRL and the work it entails. Now to more practical considerations.

All news MUST be turned in to your District Chairman in time for her to get your District's news to the Editor (Joan) by the first of the odd numbered months. Any news received by Joan after that date will NOT be included in that issue.

All changes in your name, call, or address MUST be sent to me by the 15th of the even numbered months in order to assure you of receiving your copy of Harmonics on time. I print address labels on the 20th of those even numbered months and they are bundled, ready to be stuffed into YLH as soon as I receive it from the printer, which should be by the end of the even numbered months and I try to get them in the mail before the 5th of the odd numbered month following, sooner, if I get it from the printer earlier.

If you are having trouble receiving your YLH via bulk mail, may I suggest that you invest \$2.00 to receive it via first class mail? That is only 16 1/2 cents per month. The postal regulations call for bulk mail to remain in each P.O. no more than 48 hours. That is at my P.O., your P.O., and any P.O. it goes through in between. However, it should not take a month to get to you, no matter what. If it is taking that long, and you do not wish to pay for first class, then my Post Master says you should file a complaint with your Post Master.

Should you hear some YL on the air talking about something in the latest issue of YLH and you have not received yours as yet, check and see where she is and if she is receiving hers via First Class mail before you get upset. Extreme example would be if you live on the east coast and received yours via bulk mail and she lives in San Francisco and gets hers via First Class mail. Naturally she is going to get hers much sooner than you. If you want to get yours a day or two after it is mailed, put out that extra \$2.00—it is well worth it.

As to the foreign YLs, Canada and Mexico go via Air Mail anyway as it is only 1 cent more than surface mail. The other DX YLs which go via surface mail can take as much as two months getting there. If this is the case with your DX adoptee, may I suggest you invest an additional \$3.00/year and give her Air Mail? That is a great bargain as it costs YLRL anywhere from \$5.65 to \$8.63 per year for foreign Air Mail since the rates to different areas vary. Now isn't that a bargain?

33, Jean, K60QD

The Foundation For Amateur Radio



THE FOUNDATION FOR AMATEUR RADIO, INC., a non-profit organization with Headquarters in Washington, D.C. plans to award twenty-six (26) scholarships for the academic year 1987-88. The foundation composed of fifty local area amateur radio clubs, fully administers these scholarships without cost to the donors, of its annual (7) funds two of lamfest. It administers without cost to the donors, of its annual (7) >ach for the Dade (FL) Radio Club, the Baltimore (MD) Amateur Radio Club, the Department of State Amateur Radio Club and the Amateur Radio News Service and one (1) each for the Radio Club of America, the Richard G. Chichester Memorial, the Young Ladies' Radio League, the Edmund G. Redington Memorial, the Columbia (MD) Amateur Radio Association and the Vienna (VA) Wireless Society. Also this year, there will be three one-time awards in memory of recent Silent teys.

Licensed Radio Amateurs may compete for these awards if they >lan to pursue a full-time course of studies beyond high school and ire enrolled or have been accepted for enrollment by an accredited university, college or technical school. Most of the scholarships require the applicant to hold at least an FCC GENERAL Class license or equivalent. The awards range •From 5350 to 5900 with preference for residents of geographical areas or the pursuit of certain study programs. o-f speci-fied

Additional information and an application •Form can be requested ay letter or QSL card, postmarked prior to Mar 31, 1987 from:

FAR Scholarships
6903 Rhode Island Avenue
College Park, MD 20740

The Foundation is devoted exclusively to promoting the interests of Amateur Radio and to those scientific, literary and educational pursuits that advance the purposes of the Amateur Radio Service.

1 *9* ©7" YLRL SCHDLARSH II'

The Young Ladies' Radio League Scholarship pays \$750. Applicants must be a female amateur radio operator holding at least an FCC TECHNICIAN Class or equivalent foreign authorization who intend to seek a baccalaureate degree from an institution of higher learning in the United States. Preference will be given to those studying communications and electronics or related arts and sciences.

The YLRL Scholarship is financed by the YLRL through special contributions and its administered by the Foundation For Amateur Radio without cost. No money is taken from the YLRL general funds. This is a very worthwhile effort and your support is solicited.

Please continue to support this program so we can continue to increase the award in -future years or offer additional scholarships. Every dollar will help.

Ethel Smith, K4LMB
YLRL Scholarship Liaison

A one-time only scholarship will be awarded this year to honor the memory of Rose Ellen Bills, N2RE. It is sponsored by YLRL and pays \$500. The requirements are the same as above.

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The Right Strife:

WI4K, Carol, was honored by the SEDX Club with a life membership — the first one given to a YL.

WD8IKC, Doris, was awarded the 1986 A—1 Operator Award for outstanding overall operating proficiency.

WD8MI0, Connie, has been awarded a plaque for Ham of the Year by the Parkersburg WV Klub.

0Z1GLN, Anne, received the Top Flight Operator Award, #287 from YLISSB.

KD8SC, Rosemary, is the first YL to receive the DXer of the Year award from NOARS.

Congratulations! YL's world-wide share the pride of your achievement.



1986 NOARS DX'ER OF THE YEAR
ROSEMARY SHOOK KD8SC

Viola was licensed in 1936 and received her Fifty—year Award in lateur Radio in 1986. During WWII she and her husband taught irse code to Army recruits at the request of the Signal Corps. A isy lady, Viola held many offices in the various organizations she 'longed to including YLRL.

A talented artist, she did beautiful oil paintings before 'coming involved commercially with acrostics. Her specialty was luminated hand printed parchment acrostic scrolls honoring irious people for many organizations, not only for YLRL. She was ivited to make an acrostic for each of the seven Challenger ironauts and these scrolls are now hanging in the New Jersey ate Museum. She also presented each of the families with a ipy.

Viola was always interested in traffic handling. Because of a >use restriction in New York city, she couldn't operate on the inds but she never lost touch with amateur radio friends. A few lars ago she was able to get back on the bands and was very happy > get back to traffic handling as well as catching up with old 'lends.

Viola was a wonderful caring friend and she will be sorely ssed.

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Carolyn C it tr c? li , IAJ 3 (S) C

Carolyn Currens, W3GTC, like many YL's, originally decided to >come a ham because of her husband, Harold, W3EQZ. "Going along ir the ride", she got her Novice in 1956 and upgraded to General I early 1957.

She was well known to many YL's nationwide from her involvement th the Powder Puff Derby - an annual airplace race from Elmira, f to Carlsbad, CA. She had been chairman of the event since 1957, ie year she received her General license.

She became involved with the Derby after becoming acquainted th the Chairman of the All-Women Transcontinental Air Race, Inc., le race's sponsor group, and set up the relay system the allowing year.

Carolyn had been a RACES member, was very active in the ■nnsylvania traffic net, and was treasurer of the Penn—Jersey YL adio Club at the time of her death. She is survived by her jsband and a son.

W6QL, Iris Colvin suffered a fall while at the Maldives and was flown to Sri Lanka where surgery was performed and her broken hip was pinned. She was on the Yasme Foundation Indian Ocean DX Tour with her hsuband Lloyd, W6KG. Late word has it that Iris is resting in good spirits in the hospital in Colombo. Best wishes for a speedy recovery and 33's de YLRL.

PROMOTING SCIENCE AND TECHNOLOGY AT THE SIXTH THROUGH EIGHTH GRADE LEVELS

The importance of sparking student interest at the sixth through eighth grade levels in science cannot be overstated. Otherwise, they may curtail their scientific career by not taking the necessary math and science courses when they reach high school. An effective method for reaching them employs "hands-on" experience such as an amateur radio demo.

HANDS-ON TECHNOLOGY FOR SIXTH GRADERS

Last May, Nancy Tetta's sixth grade class made contact with a couple of hams. The program was given by Jeannine Duane — teacher, licensed amateur radio operator, WB2MBW, and NJ representative of the NASA Teacher in Space program.

Jeannine Duane began with an overview of amateur radio (basic principles, necessary equipment, licensing procedures, various uses). Then she taught the students to recognize the various sound patterns of morse code as words and eventually sentences. A videotape was presented on the first astronaut (IEEE Senior Member, Owen Garriott) to contact earth from space via amateur radio. The highlight, however, was when Jeannine Duane "made a connection" on the radio, and the students spoke to ham operators in the Union (NJ) area. The benefits are evident by the students' reactions provided here.

"I've enjoyed participating in this program and I really hope that we can have another one!"

"Mrs. Duane let us make contact with another amateur radio operator. I loved it! I hope some day I can become a ham radio operator."

These comments clearly substantiate Educator Nancy Tetta's assertion that, "There are many subtle ways to introduce elementary (and junior high) school students to electronics. First and foremost — always use hands-on exhibits."

FORMAT GUIDELINES

Inspired to inspire young minds about technology? Keep these points in mind when planning your presentations

1) The presentation generally should not exceed 50 to 60 minutes. An amateur radio presentation might have a 5 minutes introduction, 10 minutes morse code lesson, 15 minutes film, 15 minutes talking to other "hams" (set up contacts beforehand) and 5 minutes for questions and closing.

2) Distribute handouts about your topic and, if possible, small mementos.

3) Be sure to consult the school's principal when offering your services.

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DX YL - N.A. YL CONTEST.....

The 1987 DX YL to North American YL Contest will be held in April. The CW portion will last from 1400 UTC, Wed, Apr 8 to 0200 UTC, Fri, Apr 10. The Phone portion will last from 1400 UTC, Wed, Apr 15 to 0200 UTC, Fri, Apr 17.

Eligibility: All licensed women operators throughout the world are invited to participate.

Procedure: DX YLs call "CQ North American YL" and N.A. YLs call "CQ DX YL".

NW MEMBERS

Introductions by Vai Lepinski, N7APJ

- KA1MKJ KAREN HART, has Extra license from Cheshire, CN. Her OM is Ed KA1MKI and daughter Amy KA1NYF.
- N1EHS CAROL DUNLAP, has a General license from Southwick, MA. She is a College student and comes from an entire family of hams.
- N1EJS ELIZABETH KOSKI, has a General license from Virginia Beach, VA. Is a new mother and her OM is E.E. NG1E.
- KA2VKW GWEN NEAL BALDWIN, has a General license from Staten Island, N.Y. She is working on her 1010 membership and her OM is Paul KA2VKV.
- KA2ZRP RUTH ABRAMS, has a General license from Wantagh, N.Y. She is working as a R.N. and is interested in cooking and computers.
- N2FKX BETTY STRASENBURGH, has a General license from Pittsford, N. N.Y. She and her husband sail and she transmits via maritime mobile.
- N2GSX ANN PARSONS, has a General license from Rochester, N.Y. She works as a Tutor and is formerly KA2PLA.
- N3EEM CAROLE HETZLER, has an Advanced license from Coatesville, PA. She is a Commercial Artist and just received WAS on 75 meters.
- N4OJI DEBORAH HENRY, has a Tech, license from Virginia Beach, VA. She is a Nuclear Engineer, and her OM is Bill N4JSP.
- N4OKQ JUANITA MILLARD, has an Advanced license from Madeira Beach, FL. She is interested in RTTY and AMTOR.
- KA4EE0 JOYCE TOMANEK, has General license from Clarkesville, GA. Her OM is Frank W8WAL.
- KB4NWM DOREEN NEWTON, has a General license from Homosassa, FL. She and her OM Ken VE3BUA live in Florida and Canada.
- KA5YLM GINNY-LEA OSTERHOLT, has a General license from Placida, FL. She works as a Magazine Editor and was first licensed in 1986.
- KA5ZJM LIN JACKSON, has a Tech, license from Ponca City, OK. She works as a Accounting clerk and is working on her upgrade.
- KB5BNF JENNIFER CALHOUN, is 10 yrs. old and is one of the newest and youngest members of the Midland ARC. Her "Elmer" is Dad, W15Q.
- KA6MUT COLLEEN HALL, has a Tech, license from Tustin, CA. Her OM is Jethero K6HSN and her father, son and granddaughter are hams.
- KB6OOY MARJORIE RADFORD, has a Novice license from Whittier, CA. She is a retire R.N. Her OM is Roy K6RQQ.

N6MNR	BRENDA RIDGELY, has a Tech, license from Downey, CA. She works as a Secretary and is active in RACES and TORRA.
W6JEP	MARIE WELSH, has a Extra license from Burbank, CA. She is formerly WIROL and her OM is Bill W6DDB.
KA7WRB	NATALIE SHERRICK, has a Tech, license from Sparks, NV. She enjoys mountaineering and hiking. Her OM is Mike KA7WRA.
N7BDZ	ELAINE JONES, has an Advanced license from Salt Lake City, UT. She has taught a YL only tech, class and her OM is Ron K7RJ.
N7IJC	CAROLYN JUE, has a Tech, license from Phoenix, AZ. She works as a Office Mgr. and was first licensed in 1986.
VE7FNP	CAROLYN SHARON, has an Advanced Canadian license from Port Alberni, Canada. Her OM is Colin VE7FNQ and daughter VE7COH.
W8WQE	SHIRLEY DETURLER, has a General license from Bradenton, FL. She was first licensed in 1955. Her OM is Keith W8WQF.
KA9RNY	SANDRA PARKER, has an Advanced license from Hamilton, IND. She is the mother of 4 and all hams. KA9TVG,KA9RVG,KA9RVH and KA9TPW.
N9FVV	CAROL HOKE KERNATS, has a Extra license from Verona, WI. She operates QRP and restores antique gear. Her OM is Mike.
KA0UAR	MARILYN HARWOOD, has a Tech, license from Glasco, KS. She is a E.M.T. and is active in ARES and CIVIL DEFENSE.
N0FBB	LOUANE BEYER, has a General license from Dickinson, ND. She works as a Manager and her OM is Roger NOFBA.
N0GZL	CLARE CLAYTON, has a Tech, license from St. Paul, MN. She upgraded and received her ticket, all on Holidays. Her OM is J. Alfred KAOVAL.

=====

WAS—YL CERTIFICATES

Mary Ketal er, KA0OMX - Custodian

Pearl Neilson, ZL2QY, #282
Natan Sterental, 0A40S, #283



2nd District News

she'd miss the Army, but fihds- she's too busy, She also enjoyed attending Sports Medicine meetings in Cincinnati, Indianapolis and Idaho. (Hope you're coming along well, Chris, after your knee problems.) She was also awarded an APSA by the Photographic Society of America, a top honor. Congratulations, Chris — hope 1987 continues positively!

Remember — the mini-convention is May 29-31 at the Lani Kai Resort in Ft. Meyers Beach, Florida. The recent flyer includes the necessary information and a registration form. It's coming fast, so register soon.

Well, that's all the 2-news for now. If you have some news, please be sure to drop me a line. Vai Fucile, N2ENJ, 626 Augustine Street, Rochester, NY 14613. In the meantime, Spring, Easter and Passover will be here before we know it—and they also fall in between issues—so I'd like now to wish all of you a beautiful season. Let me hear from you!

33. 76

Val, N2ENJ

3rd District News Lois Gutshall, WB3EFQ

First of all, my apologies for not getting this column in to the editor in time for the last issue. This will combine that information and some new items...sorry.

Christmas was very special at our house with the arrival on Sunday December 21 of David, VK3UR. We really enjoyed having David with us for 10 days and spent the time sightseeing and having fun. We managed to take him to Washington, D.C. and the Baltimore Inner Harbor before he left to continue his visit with Ruthanna, WB3CQN and Mary Ann WA3HUP. He then left Pennsylvania and headed for Florida but not before he got a taste of a good Pennsylvania snowstorm. Ruth gave him a lesson in running a snow blower....

Had a nice letter from Jane, KA3FRG with holidays greetings from the PJYLRC. She reports that Jane, K3ZDN is net control manager of the PJYL net which meets Mondays at 2PM on 146.88 and daily on Simplex 146.55.

PJYL's celebrated their 30th anniversary at their annual holiday luncheon held at Bently's Restaurant December 13th.

Bert, W3TNP and her OM, Ernie W3KKN had a 3 week vacation in Madeira Beach Florida in February. Bert also became grandma for the third time adding a granddaughter, Melanie to the family.

Jane, K3ZDN and Edith, W3AAU were TV celebrities on WPTI-TV for their help during the Thanksgiving Day parade along with other amateur radio groups.

As part of our traveling with David we spent a night with Jeanne, KA3CEO and Dick WB3AJC and really enjoyed our visit with them. Sorry to report that Jeanne's mother broke her hip and has had several complications. Jeanne and Dick have made several trips back to Greensburg to be with her. At last report Jeanne's mother was doing as well as expected.

Bert, W3TNP wrote that Carolyn Currens, W3GTC a member of ?JYL passed away on January 14. She was chairman of the Powder ?uff Derby for 20 years. She is survived by her OM Harold, W3EQZ and a son.

Jane, K3ZDN, Bert, W3TNP and Sylvia, W3SLF are planning to attend the mini-convention in Fort Myers Beach Florida May 29. It Looks like those of us who can't go south will at least get together at KA3CEO's in May for a gabfest.

Norma, W3CG writes that FCC Exams are being given in Erie the first Saturday of each month. She had several upgrades to report including Nettie Umans of Erie who at age 72 passed her Tech and plans to get her General in March. Her call is KA3QWP. Three others who are moving up the ladder are Margaret Ritchey, KA3PSI and her daughter Heidi, KA3PSC of Franklin, PA and Janice Martin KA3LUM of Meadville who made Tech.

Norma works as a Volunteer Examiner and checks into several of the nets. I really appreciate her information from the Western part of Pa.

The snow is still coming down but we all know that spring can't be far away...I can't wait to get the camper out of storage and even start on the spring housecleaning...it won't be long now.

33's Lois

•1th District News

Alice King, N4DDK

Hello everyone! Spring is here in Florida and by the time this arrives at your home it will have spread over most of the countryside. How beautiful to see the new buds and leaves on the trees and the flowers starting to show in the- garden. I miss many of those sights by living in Florida, but the winters compensate for it. I hope the past winter has not dealt too severely with each of you. It has been very mild here this year, with only one morning when there was frost on the ground. That was the day I started out at dawn to drive East and South to Sarasota and reveled in the beauty of the sun glistening from each blade of grass.

Carol, M14F, has settled down in a temporary residence in Virginia Beach- VA and already joined the Virginia Beach Amateur- Radio Club and Virginia DX Century Club. They had hardly arrived when son Neal fell off a chair in the doctor's office. Carol writes that both he and the 14 yr-old dog have become "Beach-Bums" and do not look forward to moving further inland when a permanent home- is found. Neal's arm is now about (sealed, much to Carol's relief. Her mother and aunt became KB5B0Z and KE1B0W, respectively, in January, with Tech tests planned in Feb. She was honored by the SEDX Club with a life membership — the first one given to a YL.. Congratulations. Hope tilings continue bo work out for you.

Jesieffe, UO'lfJ, and he/ DM were hosts for the annual MAY! ARC Christmas party. They are constructing new office space. And will continue providing a meeting place for the club in Sandy Spring?.

Clare, NTHJE, with her DI'l and three harmonics spent Christmas in EradBota.i, FL with her family and the following week in A'l-jnsas with Jim's family. That sounds like a find way to see as many as possible on a round-trip.

I am sorry to report that the OH,UB4LXH, of Betty, 'AIC'??, has become a SK. Our condolences to you, Betty.

Thelma, UB4ALIR, has been very busy sending out Letters about the Florida's 30th Anniversary in Orlando on March 1d, Latest reports anticipate a Full house at the mcheon.

Myra, AA'1TI is working with a group of Senior Citizens. She will start by teaching a club code far a notice. C I a!a? with a very needed service. a + i ne
*i-? .itior rhou.ki. M/i , Ear a very needed service. a + i ne
□w- je, I s ar « t. te/id ir>3 c Lasses and upgrading at a + i ne
i =f(= To be reflected at this time are Virginia, KA8BVU, 11', Ac! rd w i 11. ... /...*?? ceil t of U'.lr.l rKK4Florida'flamiand
HIMML. to Ad. uncc-d with no call change.
Jj., TI/IJCE, in addition to all the work she is doing
'range? fo- II'; Sy'ing Fling flay 22 31 in FL. Meyers



On the left, Jan, WB2JCE, on the right, Myrlte, N2AKC, holding the Main Prize of the Spring Fling YL convention.

the 4-land news continued on next page

Beach) has earned her real estate license and is hard at work. Her tower and beam finally arrived and were installed the first week of Feb. Find some time from your work to get on the air, Jan.

Since having a great Christmas with all *my* family here, I have been busy preparing for and attending conventions in Sarasota and Miami. The gals seem very receptive this year and I was able to give out many applications for membership in YLRL. I hope to see many of them listed as New Members soon. It was a real pleasure to see so many of the gals who stopped by. My thanks to both groups for their courtesy to YLRL. I hope Lu see many of you in May. 'Bye for now.

33,

Al ice

*O****O*****

5th District News

Carol Noack, KK5L

*O**<*****O*****

We've had a nice preview of Spring this February, with almost two weeks of warm, sunny days.

Mickie, WA9LYJ, is now a resident of 5 Land. She moved to Dover, AR, and certainly found some neighborly hams in the area. The members of the Russellville Ham Club installed a two-meter ground plane for her and also were to donate a tower and put it up. Mickie spoke to a Novice class about the merits of CW, and she pointed out that almost anyone can master the code even though there may be difficulties to surmount. Mickie has done some dog obedience training for friends and hopes to become a professional trainer.

Jennifer, KB5BNF, is a new member of YLRL. Ten-year-old Jennifer is in the fifth grade, and she enjoys reading, swimming, and playing the violin. Jennifer confidently operates her own keyer and is the youngest member of the Midland Amateur Radio Club. Congratulations, Jennifer, on all you've achieved—hope to meet you on the air soon!

Thanks to Carla, NV5R, for the above Information about Jennifer. Carla has not been on the air much lately, but her OM Don, K5CFA, keeps the rig and keyer going almost all the time. Carla is planning her older daughter's June wedding which will be held in Dallas. Our sincere sympathies go out to Carla on the death of her father on Christmas Day.

Wanda, KJ5C, is doing fine and is in the mood for Spring. She put some seeds in to sprout and is planning to transplant them when it gets warm.

Jennifer, N5DXD, is using a computer to prepare a new directory for the members of TYLRUN. Your work is very much appreciated, Jennifer.

Elli, N5BYF, is the newest member of TYLRUN, and she enjoys the Thursday morning net very much.

Richea, KU5L, joined a local quilting club and says that they have really been turning out some beauties. She has finished three quilts, but work on a fourth one has been delayed since Richea's arm is temporarily in a sling. Richea and her OM, Buck, put up a heavier, taller tower last Fall and had some anxious moments when the beam became pinned under the rope in the gin pole. Much to the relief of Richea and her father-in-law, Buck was able to free the beam from the rope and proceed with the installation. Isn't that a scary feeling, to see your OM on top of a tall tower!

Debbie, N5HNS, went to Illinois to be with her father, who had surgery. Hope your dad gets well real soon, Deb.

Carol, KK5L, received a beautiful calendar from Masako, JA0CYL. The calendar, which features a lovely Japanese woman in a kimono, is a welcome addition to the ham shack.

Thank you to all who sent news. Please send me a note by April 15 with your news for the next issue.
33, Carol KK5L

6th District News

Jean Baptie, W6ZYD

Best of 33's to everyone. Our winter is upon us in Northern California. We have had some rain, a little snow and lots of cold! Hopefully will have more rain as we need it badly.

Attention all Ironing Board Netters and those that would like to join. We have voted to have the net held all year on every Tuesday at 1800 hrs. 7.235 plus or minus. At this time we are rotating net control each month. Please join us, we have a lot of fun.

On Jan. 28 I had the privilege of lunching with our President Jackie Van de Camp, W6YKU, Publicity Chairman, Betty James, KA6NZK, Circulation Chairman, Jean Kincheloe, K6QD and our ON'S at the Holiday Inn in Chico. We discussed our duties and also the up coming luncheon of the Northern California and Southern Oregon YL'S. It will be held in Chico the end of March or the first part of April. Hope to see a lot of you there. You will be notified.

A nice letter from Mady, KA6ZYF. She and her OM Terry G3MHV/W6 spent 2 weeks in South Korea last November where Terry was attending scientific meetings. Most of the time was spent in Seoul, the capital, where they toured several palaces, gardens, a museum and the Olympic Village which is completely ready to host the 1988 summer Olympics. In Seoul, YL-U-SUK, HL1ATL, editor of Karl Magazine (and one of the operators of 6K86AG, the 1986 Asian Games Station) entertained Mady and Terry in her home for dinner. Later, at the offices of Karl they met several of its members including many HL YLS who were holding a meeting of the Korean Ladies Radio Society.

A few little newsy tidbits:

Virginia-WA6PUV is back in Paradise, Ca. She checks into the Navy-Marine Corps Mars Net regularly and her new interest is Packet Radio with a Apple 2E computer. She is continuing to do private nursing in our area.

Marie-W6JEP, extra-class license, member of 2WCA and YLRL, Mother of 2 daughters, 5 sons, 6 grand-children. A letter from her OM W6DDB states: "Marie is busy on the air (code-dx/novices) and in the ARRL/VEC program. Our club (W6LS-Lockheed) has conducted licensing exams on the first Saturday of each month since Nov. 1984. Marie has been our contact person since we started and she does an excellent job of helping the candidates/applicants. She is also an instructor in the licensing courses conducted at W6LS."

W6CEE Vada writes she is now the VP of the local Amateur 2 meter club and W6LXL, Ruth Hinkle is the Secretary. It is called the Siskiyou Repeater Assn. Your district chairman is traveling again. We, the OM W6AMQ, Boyde and I are in Seattle, Wa. visiting Boyde's brother and wife. On the way north we attended the wedding of WB7EEI's daughter. It was a very lovely wedding and we had dinner with 4 "ham" couples. It's so nice to renew these friendships. Also stopped in Toledo, Wa. near Mt. St Helens and had a rag-chew with Roni Foster KE7IL. On the way home we will visit Bonnie, N7DSR and her OM-Rex, N7CEC in Ocean Park, Wa. just above the Columbia River on the shore of the Pacific. Plan to be home no later then March 1.

Jean Kincheloe, K6OQD has arranged the Spring gathering of Northern Calif, and Southern Oregon YL's. It will be Sat. April 25th at 12:30 p.m. Willow Brooke Inn, State Highway 162 and I-5, near Willets, Ca. Hope to see a lot of you there.

Irma-K6KCI has had Karla WA1UVJ visiting her in Thousand Oaks for twelve days. Karla has enjoyed the beautiful weather and hates to go back to the cold of New Hampshire. Irma and Lou and Karla attended the Los Angeles YL Club's annual YL-OM Banquet where they enjoyed an excellent dinner and an equally excellent speaker, K6ZE. Louise, N6JDE, President of L.A. YL Club announced the meeting in March will be held at K6BUS. Louise is managing well with a broken foot.

We hear that Mary-WA6KFA is busy introducing amateur radio to young people in the schools in Santa Cruz. Mary is unable to be on the air at the present time as she broke her right shoulder and elbow. She hopes to return soon.

Note from Isabell, K6CAL saying her 95 yr old father-in-law is with her and the 0M for a while.

Connie, K6EXQ had a stroke last year and I'm sure she'd enjoy hearing from some of you gals.

Donna, WI6A former N6LDR, has upgraded to Extra Class. Donna still resides at the Edwards Calif. address.

K6EL0-Roxie has just finished fixing her 40 meter antenna all by herself! thats terrific. Roxie, keep up the good work.

The last few tidbits were kindness of Vada, W6CEE and Sue-WA6S0C thanks.

Please get your news in-lets make this column bigger and better.

Until next time, 33's

Jean

7th District News

Marion Dixon. WA7TLL

Crocuses blooming herald the arrival of spring here. Our daughter and our 2 grandchildren from N.E. Oregon have just left after visiting us for a week- wish they had left their cold germs home, though. Thanks very much to all who sent me news. It's great to have more from Arizona this time.

W2GLB Phyllis continues to be active on the YL nets and encourages other YLs to join the fun. After an influx of holiday visitors she has been resting up and enjoying 2 charming new kittens. I finally learned more about her fantastic trip last summer. She and OM Bill W2GTK attended a 3 week course in Esperanto at SFU and then traveled to China to attend the 71st Esperanto Kongreso in Beijing along with 2200 others from 4-9 countries. It was exciting to be able to understand everyone. There was time for sightseeing and evening cultural events in Beijing as well as in the 6 other cities they visited. After 2 days in Hong Kong they flew to Japan where they met Esperantists in Tokyo and Kyoto and were escorted to Kanemura to attend Oomoto Summer Ceremony. No wonder the trip was an experience she will cherish forever!

There were 29 members and 2 guests present at the Jan. 17 meeting of the Cactus Keys in Phoenix. KA0FSM Linda, visiting from ND, came with K8DMU Reeva and WB7USZ Inez brought her mother. N7IPR Charlotte, who is studying for her General, joined and the total membership is now 57. WA0KVP Margaret tolq a little about her trip to China and Nepal and the flea markets in Llasa, The By-Laws and Procedure Policy were approved and KB8RT Lee presented the new Certificate. The rules are:

2 Mi Work 20 members on 8 different repeaters. Lok Info only to KB8RT.
LOH Bands: Arizonians work 12 memberst other 4? states work 8 membersI
DX work 4 members. (AK and KT are DX) Send QSL cards or copies (both sides)
and 9 x 12 SASE with 76g postages DX send \$1.00 or 3 IRC. Send to;

KB8RT Lee Shaberly, 2635 W. Sunrise Dr., Phoenix, AZ 85041

The Tucson YLs were disappointed to miss the Jan. meeting because of snow
but look forward to the Mar. 14 meeting at the Picadilly Restaurant in Tucson.

Sympathy was extended to W6NIM on the loss of her sister. Beulah returned
from Texas Jan. 8, and rushed home from the Cactus Keys meeting to help pick
her grapefruit to save them from predicted frost.

News of other YLs who attended the meeting! It was the first for N7GBF
Maudie who spends 6 months in B.C. and 6 months in AZ. N7GLQ Norma was among
the crowd at the Tournament of Roses Parade and cheered the ASU Sun Devils on
to victory at the Rose Bowl Cane. KA7ENL Billie and N/HTB Carol are busy with
the Women's Program for the ARRL Convention in Scottsdale later this year.
RB7FDF Jane had a great time visiting Tahiti even though her luggage was miss-
ing for 5 days. WB7USZ Inez was disappointed to find little 2 M activity on
her recent trip to Hawaii. K7MRX Fran and CM Doc K7LDK celebrated their 50th
anniversary in Jacksonville, IL during their annual summer visit. K7YCZ Marge
attended the Superstition Swap Meet along with 700 other hams, despite the
rain both days which caused the grounds to become a mire. N7DFH Marilyn is a
"walking scorekeeper" for the Phoenix Open. Her daughter is now KD7ABM. Con-
gratulations to KA7VYF Carrie on upgrading to Advanced. She and her OM have
purchased a house and she is back taking college classes. N7IJC Lynn checks
in with the Tuesday night 2 M net and says she is just getting started. KB8RT
Lee concentrates on DX YL Certificates and named several exotic ones she has
received. WB6UJG Donna is studying for her General. KA7YVJ Doris from Sun
City sent Happy New Year to everyone. WA7IVA Vera Is not hearing much on the
low bands but WA8FSX Ruth says she is enjoying them!

K7SEC Phyllis admired the desert beauty during Tucson's two 4j¹ snowfalls
but was glad when it was gone. She and OM Howard W7UCJ enjoy camping and have
progressed from a tent to 13* trailer and now to an 18' with bathroom, heater
and cooler. They are anxious to use it when they finish rebuilding it.

WA7CVI Henrietta wrote that she carries her IC-2AT handheld around in her
car in case of trouble. She is a member of Old Pueblo Radio Club and will be
helping with the Rillito Regetta on March 14.

KC7ET Evelyn moved back to Bloomington, IL permanently last Nov. 15 and
likes it but does miss her AZ friends very, very much as well as the lovely
sunshine and HF now that she is in an apartment with only a mobile rig.

K7PVG Frieda kept busy this winter with women's activities at their mo-
bile home park in Yuma. OM Hugh K7PVF was elected Pres, of the Board of Dir-
ectors. HA7TPU Bernice talked to Frieda daily on 2 M while she and OM Sam
WA7LXE enjoyed the winter sunshine at a 1250 space park 5 miles from Yuma.

KA7NZZ Patsy had a nice Christmas with all the children home. She and
KD7YB Joan set up a YLRL table at the Salem, OR Hamfair.

KC7TE Daurel and 4 year old son Trevor enjoy projects like pruning the
berry patch, digging drainage ditches, and constructing hills out of plaster
of Paris. Her own activities include an extension study group, church hand-
bell choir, church library, aerobics, machine knitting and sewing.

KD7YB Joan and OM Uppy N7FLE vacationed for a month last fall and enjoyed
the las Vegas Hamvention, toured Utah parks (Cedar Breaks, Zion and Bryce)
which were absolutely gorgeous, and visited relatives in California.

N7GYQ Aledra and OM are back on the air after moving into a new house
and putting up new towers at their farm 25 miles N. of Great Falls, MT, She
looks forward to checking into some of the YL nets. They plan a 2 week trip
to Arizona in March.

IJ7TGG Vera spent the winter with her daughter Helen in Brady, MT and is Busy knitting, crocheting and making rugs from polyester slacks. She also collects cruets, U.S. stamps and has a full collection of TB Christmas Seals.

WB7FDE Donna, OM John AE7P and daughter Kari KA7PTO had a fabulous trip to Mazatlan, Mexico during Christmas vacation. After setting foot in our 50th state last summer, they have decided to start visiting locations outside the U.S. Look for them at the Salem, Seaside and Tacoma Hamfairs at their E.P.O. Software display.

WB7ECH Audrey and OM Bob WB7AIV have had the gigantic task of sorting through belongings of his parents collected during 60 years of living in the same house. Audrey is Secretary and only YL member of the Cascade Radio Club 2 M simplex net, looks forward to better propagation on the 10 M band, and enjoys participation each year in Field Day. She hopes to have more time soon to continue her genealogy research.

KA7VLV Helen hasn't been getting on the air due to work but hopes to see some YLs at the 10th Annual Inland Empire Hamfest to be held April 25 at the Red Cross Bingo Hall in Spokane. OM Bob KE8DM is chairman of the committee.

NM7N Mary Lou and N7HAT Audrey were glad the wx cooperated this year for the annual Audubon bird count with which they were involved on Guemes Island the Sat. after Christmas. Audrey especially enjoyed seeing the eagles and snow geese. Mary Lou missed MINOW net one Fri. when she and KL7FJW Betty, who is wintering in Anacortes, went to see a rare male Steller's elder duck. Mary Lou and Fred K9dog left Feb. 24, with a stop in CA for a reunion of friends before going on to Florida to see her parents and to attend the Dayton Hamvention. On the way she plans to visit some 15 YLs and take pictures of them, their shacks and families. WD5FQX Darleen is planning a YL luncheon for her in Hot Springs, AR on March 20.

N7HAT Audrey and OM N7HVA George's plans to spend Christmas aboard their sailboat in the San Juan Islands with friends, the Murphy's KA7WBL, were thwarted by high winds. They all stayed on the boat at the dock, with 25 knot winds there. Audrey and OM spent the first week of Feb. siding in sunshine at Sun Valley on slopes that were well groomed despite the least snow in 50 yrs,

W7QME Ruby and OM Reggie H7R0L celebrated their 58th anniversary Jan. 14. She has not been on the air lately as she has suffered a great deal of pain since having shingles last Nov. At last report she was to undergo more tests.

WA7RBR Margaret and OM Barney W7GR went to Hawaii for 2 weeks in Feb. and enjoyed the absolutely beautiful wx at Waikiki. The highlight was celebration of their wedding anniversary on a sunset dinner cruise aboard a catamaran. They also enjoyed the Bob Hope, Al Harrington and Kodak shows and had a very interesting tour of the Dole Pineapple Factory.

W7WM Ethel and OM Roy W7AZI took a 4 day trip to Reno in Jan. with a one day bus trip over Donner Pass to Palo Alto to attend the East West Game. They had a wonderful celebration for their 50th anniversary. Ethel received a big bouquet of pink roses, and nearly 200 relatives and friends joined them at an Open House on Jan. 23. Their son and daughter decorated the Grange Hall, ordered catered food, and will pay for a trip anywhere Ethel and Roy would like to go. Ethel decorated one wall at home with the 128 cards they received.

KU7F Flo bought a birthday gift for herself--an all-band dipole antenna, and OM Irv N7AWK gave her a certificate for an antenna tuner.

Please keep the news coming!

33, *Marion*

"All you need in this life is ignorance and confidence, and then success is sure."

—Mark Twain

 Bth District News Donna Burroughs KBOYS

Hello from Ohio where the calendar says it is winter, but our weather dosen't know it. Most of our bad storms have passed over us heading for the east and south. We're not sorry about that, but we do sympathize with everyone that got our snow, WDBDQG Carol and her Border Collie "Maverick" had a fantastic H,500 mile trip last summer and I didn't get it in the YLH last time because it fell behind my bookcase and I Just found it when I dropped some other papers behind it and had to move it. So sorry Carol.

They left Michigan Aug. Hth in her Itasca Motorhome for Wichita Ks. for her parents 50th Wedding Anniversary on Aug. 10th. She enjoyed the reunion very much with her brothers and sister, since it was the first time they were all together in 22 years.

She and her sister and her sisters two youngest drove to Yellowstone, where one of her twin sons, Matt was employed as a cook. After cooking him a good meal and spending the night, she drove to Belgrade Mt. to spend a week and a half visiting and fishing with her sister.

She went back to Yellowstone Plug. 27th to pick up her son when Canyon closed for the summer. She arrived home again Sept, 1st. Except for a flat tire the trip went very well. She did learn how to lube, change oil & gas filter and U tires.

She did have a two meter contact with Maxine KHKUU while in Nb. and alsoi had an "Eyelash" contact with her and her OM at a rest stop. ICarol sure missed not having her HF mobile

KBOHB Joyce was show secretary for the American Rabbit Breeders Assoc, convention and show held Nov. 3-6, 1SB6 at the State Fairgrounds in Columbus, Oh. She said it was quite an experience, and was very proud to be involved in this record-breaking show. Her Job was the paper work for, and keeping track of the 10,000 rabbits entered in the i open show. Overall there were about 13,000 animals entered. There were 1173 exhibitors from almost every state, including Hawaii, England and Germany.

KBHGD Louise and her OM had a wounderful 65th I Wedding Anniversary. Louise was the cook. She prepared H01lbs of beef, H01lbs of potatoes, 5 lbs of baked beans and made a 5 1/2 foot cake!! Thats one way to get what you want for dinner and the right flavor cake. CONGRATULATIONS TO YOU BOTH! I Louise is now enjoying her new equiptment.

WA8EBS Eila and OM Jim will be celebrating their 65th Wedding Anniversary this year. They greeted their 11th Great-grandchild into the world in Dec. His name is Richard James Ashford. Congratulations to all of you.

WA8EKW Beulah made the cake for her in-laws Wedding Anniversary party. It was a busy happy time.

KYBU Inez had some unexpected excitement due to one of our bouts with winter. They had 70 mph winds and it tore the iwest side of her patio from it's foundation. It is 12 X 10 feet and screened in the summer and enclosed in the winter, so it isI in use all year. Right now it looks like and open air pavilion.

Sure hope you were able to get the repairs done quick.

A lot of YL's were active in the Michigan Sesquicentennial that was held in the State Capitol Rotunda on Monday Jan. 26, 1987. Members of the Central Michigan Amateur Radio Club, UJ8MAA set up transceivers, hung antennas, and operated from 1430 Zulu to 2145 Zulu. They made 265 contacts. Happy Birthday wishes came from IB states and 2 Canadian provinces. The most distant one was from Flim Flam, Manitoba.

NBFED Pat, had major surgery in December. She is doing well now.

NTBY Anna and QM Floyd UIBJB have taken care of their income tax and should be in sunny Fl. by now. They plan on helping the Floridoras celebrate their 30th Anniversary in Orlando, and attend the Orlando Hamfest. They also will attend their Company retires luncheon at Lakeland and also see some of the tourist sights. In the mean'time, Floyd is going to paint their roof. They are planning to be back in time for Dayton. They are looking forward to the banquet and having "eyelash" QSO's with many of the Buckeye Belles. Anna is also anxious for the bands to get better so she can check into the Tuesday night net.

KA8SDL Ann helped her son out in his pet shop. One of the unusual things she had to do was to give a tortoise a bath. She also had a great time getting ready for her youngest granddaughters first Birthday party. She knows the first one is for the adults, but her' and her OM had fun putting together a red wagon for her.

KABUAL Denise has upgraded to Tech. Congratulations I I

KABNXU Erica has taken on the job of teaching Hebrew to two students.

WDBIKC Doris is very happy to have Mary Lou NM7N as her guest in April. Mary Lou will be traveling across the country in her Mini-Motorhome with her dog Fred. She plans on stopping off at Doris's for a day or two, and then going on to Dayton. Doris is planning a dinner on the 21st, and hopes to get as many YL's as possible to attend.

Doris was awarded the 1986 A-1 Operator Award for outstanding service in the area of overall operating proficiency. Congratulations from everyone of us!!

KD8SC Rosemary has been awarded a plaque from the NOARS Radio Club for DXer of the year. She is very proud as she thinks she is the first YL to get this award from the club. Congratulations!!

WDBMIO Connie has been awarded a plaque for Ham of the year by the Parkersburg W.Ua. Klub. (That's the way they spell it.) Congratulations Connie.

Connie is having a great time with her new 27ft Motorhome. She drove up from Marietta on Sat. night, Feb. 21st and spent the night in my driveway so she and OM Jerry could attend the Cuyahoga Falls Hamfest with out rushing in the morning. She also spent the night in Pat's driveway NBFED, the night before the Mansfield Hamfest. KIBU Uerline has had a very busy and not all to pleasant time in the last couple of months. She has a new Job, Juggling new hours, (midnight shift) going to school, helping out with her neice who just got married and other obligations. Along with that she had

oral surgeru, the flu and computer problems. She is also President of TASYLS and the editor of their news letter. She appologized for being late with the news letter. With all she had to cope with, I'm sure no body minds and are really grateful you found the time to get it out at ail. Lets hope the rest of the year is a lot better for you Uerline.

KA8UDX Beverly and Oil Bart, recently returned from a fantastic trip to Alaska. They got to go on the Love Boat. She and Bart had the whole dance floor to themselves. They had a fantastic time, and are planning future trips.

KOBE June, Congratulations on winning the big YLRL contest and having her picture in the Dec. QST. A very nice article.

WDBUEU Shirley was also an active TASYL member in the contest.

WA8UXE Rosemary has been busy with her flyins. She went camping also in Oshkosh. She mentions the planes like warbirds, antiques, home builts and the Goodyear blimp America with a computer with a controlled computer-lighted display on its sides that she had seen.

The YLRL has gals in every activity that was ever thought of. We sure are a diversified group!!

KBBYS Donna is going to miss Dayton this year because of a Super Duper Dive Trip to Fl. that takes place at the same time.

The Cuyahoga Falls Hamfest was Just a great this year as it always is. It was very well attends by YLs who are not yet YLRL members, but we did a lot of talking and handed out a lot of applications. The members who attended were, Dolly KA8I1NU, Joanne KJ'30, Doris WD8IKC, Sue N8AJU, Betty N8FQS, Carol W8WRJ, Ann WAHUTS, Lonnie WD8FII8 and Donna KBBYS.

KBtlZl Shirieu is back on the air. We were all concerned about the cold orflu that she had for the longest time, but it turned out to be rig problems. We're all thankful for that. ihanks to the help of her friends.

KJ30 Joanne, Congratulations on winning first prize at the Cuyahoga Falls Hamfest. Hope you enjoy the Yaesu FT-757 GX transeiver. It's great to know real people that win.

WA8LYJ/S Flickie, is enjoying her new home in Dover, Ar. Dover is lucky to have you and we will miss you. We do hope you check into our nets as often as you can. We love to hear from you and all your adventures, now that you have gone to the dogs again. Hi Hi We wish you the best with your dog training, and also our best wishes for your old pal Dean, and his hearing problems.

I know how you feel hickie, my old guy is on medication everyday, Just to keep him on his feet. I hope I will know what to do when the time comes. He deserves the best.

Thats all I have for this time, I'll Just say ''keep the cards and letters and acceptance forms a comming''.

33 & 76

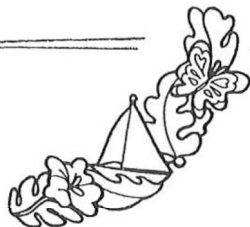
Donna



SPRING FLING

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Lani Kai Island Resort
Ft. Livers Beach, Florida



9th District News

Ann Arnholt. K9RXK

#####Jfc#####<>#####

Hello everyone, we have had such a nice winter and I feel sure it has been like that through most of the 9-land area.

Three cheers for all you gals in Illinois-how I loved hearing from you. Thank you for all the letters.

Pauline N9CLZ and OM George K9SCL both upgraded to Advanced in December. They are Keeping their old calls because they have so many friends who Know them by those calls. Pauline writes that 1986 was a good year for her because she received her USCA County Award No. 503 and made her advanced. Congratu1 at ions to you for both achievements. I'll be looking for you on the bands, Pauline.

Picture this! a Christmas banquet with very good food, many prizes being raffled then later going upstairs to a beautifully holiday decorated ball room and dancing until the band stopped playing. Doesn't that sound fantastic for a radio club meeting? Oh Dot N9ALC, how I envied you when I thought of our meeting in the basement of the old Court House. All Kidding aside, our Radio Club had a very nice pitch-in with a lot of good fellowship. Since Christmas Dot has decorated the shack and her sewing room is next. She has been Knitting Barbie clothes for the granddddaughter and says its a real challenge from Knitting for herself. I'll bet it is. Dot. Right now her sewing projects are blouses and dresses. Dot and OM are VEC's with their radio club and participate in giving tests once a month. I Know what you mean when you speak of it being very gratifying to see so many pass their tests. OM Bob will soon be getting his fishing gear ready for the big ones so that sounds like you will have fun. We'll be lookIng for you on the air. Dot.

We are so glad that Evelyn KC7ET/9 has been checking in the HAWK Roost- We have had several nice QSO's even though Evelyn had to operate as stationary mobile. Thank you Evelyn for sitting out in your car in mid-winter and chatting with us, we love you for it. In a note Evelyn writes: I have been attending the Land of Lincoln 10-X breakfast meetings which are the first Sat. of each month and will attend the Central Illinois Amateur Radio Assn, meeting on Feb. 25th when we will celebrate Washingtons Birthday with a cherry pie festival! So I am getting into the swing of things via amateur radio by meeting new operators in person and on 2 meters even if I find it difficult to be on HF. I am hoping some of the hams can figure out how to erect an inconspicuous vertical near my apartment window, which is on the ground floor, after getting permission from the agent who rents the building. My VEC has come through and I hope to be helping out with the next session of examinations in Bloomington, IL. I enjoyed spending the holidays with my family for the first time in ten years and in spite of the weather am happy to have moved back to the midwest, although I miss my Arizona friends very much.

Congratulations to Jackie NQ9K on her upgrade to Extra. Jackie paarticipated in the 10-10 International Net Phone QSO but conditions were so bad that she worked only one day however, she did get 55

contacts and had fun. We are glad to have her on the HAWK Roost. Jackie and OM were in New Mexico over Christmas vacation where they are thinking about retiring when the time comes. While they were there they met WASWIZ and NM5Y. Jackie has been checking into the Geratol Net and her latest endeavor is to get her WAS Extra Calls only. Good Luck, Jackie and let us know when you get that WAS/extra.

Several gals went to the South Bend Hamfest in January. Jackie NQ3K, Barb KD3DU, Sandy KASRNY and Mary KaSJJB were there. I'm not sure how many eye-lash QSO's there were but I know there were several. . Sure wish I could have been there.

Barb KD3DU sent several of the HAWK's a lovely red felt flower that we can wear when we go to hamfests and be able to find one another-very good Barb! I enjoyed getting mine and know others feel the same. Barbs winter project has been to
- brave girl! Barb continues to do a super-
several days awake.

reupholster the furniture
job with traffic nets

Good News' Dot W3NBW is feeling great!
doctor which she says is "a doll", taking more tests and doing away with a lot of medicine, she was feeling well enough to go shopping and bought a new sport jacket and slacks and new drapes for the house. We're so happy for you Dot, you had us all worried because you were feeling so bad, and It's great that you are able to get out again and feel good. Their children are planning a celebration party in honor of Dot and Mac 's 50th We d d i n g A n n i v e r s a r y in June.
more about that Dot.

After being sent to a new

We'll want to hear

Dori W9VNG writes that she is kept busy with all the news articles she writes for THE ROYAL REPORTER. I enjoyed the copy she sent me as well several other articles she had written. She said she learned to write when she was 3th District Chairman as well as working with the County Hunters Club and Amatuer News Service. Dori also enjoyed Satilite Operation in the late 70s. Dori is a great grandmother now, using the phrase "the second time around". Congratu1 at ions Dori and I pray that a miracle will happen for you and you can once again turn on the rig and join us. Bless you for-writing.

Sandy KASRNY has been quite active with her upgrade as NCS on Indiana Traffic Net and 2 Meter Net. She is active in scouting and had a radio on the air from their Scout Jamboree. One Saturday when overheard her plans included taking the daughters to take SAT tests then going to eu program where their High School son made the National Honor Society. Congratu1 at ions to you and your family, Sandy. We need to hear more about families like yours.

Mary KASJJB worked Straight Key Night on New Years eve and had a lot of fun. She is now working on Golden Jubilee of DXCC - work 100 countries in 1387. Good goal, Mary and I'm sure you will make it given any band conditions at all. Mary continues to do a great job with the HAWK News. Sap is running at Mary and OM's QTH and they have had their first boiling of maple syrup. When Barb KD9DU told Mary about a Sap Festival being held in March, Mary said no thank you, and that she was up to her eyebrows now in sap and had enough for the year, hi.

It was so nice to hear Jodi NSALJ/S checking into the net.

Conditions were not the best but we're looking for you to come again
Jodi. Evelyn KC7ET/9 was looking forward to an eyelash QSO with Jodi
in the near future.

Marilyn WB9TDR has been busy working toward her degree at a local
college and will keep at it, even if it takes 100 years. She got "A"
in two classes just finished. Congratulations Marilyn, keep up the
good work.

Beth WA7FFG should be in sunny Arizona after a busy Indiana
summer. Beth says she has been in Eastern Star for 64 years and
Worthy Matron in 1926, 1927 and 1928. Beth stays busy wherever she
is .

Fran K9ILK was in Florida for a month with son Jerry. The
remodeling is done on the house and the antenna back in operation and
doing a good job. We sure miss you as HAWK Net Control when you are
gone , Fran.

Adah W9RTH has been quite busy getting her nominating committee
together for QCWW. Over Christmas she attended candle light services
in an Indianapolis church with her family the night before the
church was burned. A wreath ~~from the outside, outside and by flames~~ by flames, was not
even scorched . Her Great Grandson carried the miracle wreath down to
the altar of a borrowed church on Sunday as symbol of Hope, with full
TV coverage. Adah is going to the Mini-Convention at Ft. Myers,
Florida and is planning to have a QCWW Brunch on Sunday morning,
She's hoping to meet a lot of gals there.

Ann K9RXX and OM have been busy with Packet VEC tests and
operations on HF. I'll sure be glad when we get our beam up again, I
found our last Radio Club meeting to be very informative. We had a
demonstration by Larry WD9EME who operates a Multifunction Station
Control "Shop Master". He has his own repeater on 220, which is tied
into his HF rig, antenna switches and antenna rotor on his beam. He
used his 220 Hand Held and worked through his repeater on 220 giving
commands to the ShopMaster to switch to 40 meters and also his- antenna
switch to go to the one he wanted to work. He worked California
through his Hand Held on 40 Meters with his Sloper Antenna, from the
Club Room with a 5/9 signal report. I was impressed! I also want to
say how much I have enjoyed NM7N's articles on antennas. Thank you,
Mary Lou. I'm getting so excited about the Mini-Convention in May.
What fun it's going to be to visit with everyone. I hope to see
several of the 9th Area there. Have a good Easter everyone, and
thanks for so much news. 33, Ann.

CONTINUOUS MEMBERSHIP CERTIFICATE

January 1 to February 28, 1987

CALL YRS CALL YRS		Jeanette Ellis, W04U - Custodian		CALL YRS	
CALL	YRS	CALL	YRS	CALL	YRS
K6SYR25	K6QPG.....30	ZS2AA.....30		K5MXO.....35	
WA4FEY25	W7GNV.....30	ZS6GH.....30		W8SPU.....35	
W9EXM25	W7RVM.....30	K6JSN.....30		K4JNC.....40	
K1ADY30	K0GZO.....30	W1VOS.....35		W5RZJ.....40	
W3BIW30	DJ1TE.....30	W2IGA.....35		W7LCS.....40	
K4CZP30	G8LY30	W5DCB.....35		W4LYC.....45	
K6OQD30	VK3YL.....30				

Hello to all you gals and I hope that winter will soon be over for all of us. My trip to England was great although; the weather was damp and cool the love and warmth from my family made up for that. It was great to shop in the old towns again, just think gals you have to park your car on the outer edge of town in a parking ramp then walk all through town, I did mow walking over there than I do in a year here, hi hi, my brother kept remitting me that exercise is good for me (oh my aching feet) They do not keep their homes as warm as we do and I think the word got around to all the family that I was cold all the time, so everyone I visited would turn up the heat as soon as I got through the door. Anyway as always it is good to be back home here in the cold country, and of course my heat is turned up on high, hi hi.

I received a very nice "welcome home" letter from Marj KB0ZC, thank you Marj, I agree with you about the conditions on the bands, it will be nice when they get better so we can hear more of the gals on the nets.

'dell the three brave gals of N.E. Minn, were doing some cross country skiing again last week. Mary KA0OMX, Helen NM0E and Harriet WBjzfZQZ, they went to Ely to Helen's cabin and had loads of fun on their skis also on snowmobiles. I did get to visit with them at Harriet 's home where she served us Pasties for lunch, Mary and Harriet showed us their power supplies that they had put together themselves, great going gals, they sure did a good job on them. After lunch the three of them went looking for the Snowy Owl, they found it and took some pictures but the owl was some distance away and being white it was hard to see so I hope the pictures will come out o.k. A great big thank you to Mary for doing the last district news letter for me, you did a very good job.

Let me hear from you soon gals or they will think there are no ID's in the 10th district, hi hi. Take care - Have fun
God bless - 33 Gwen



1-r: NM0E Helen, WB0ZQZ Harriet, WD0AKS Gwen. SNOWBIRDS sharing lunch before skiing at Helen's cabin.

KL7 District News

Shari Runyan, AL7FJ

Hi ladies. As of this reading, I will have gone to and come back from Nome for Iditarod if everything went according to plan.

Congratulations to Veronica Walls, WL7BFB, a new member of YLRL.

If you have any news to report from your area Veronica, please send it down ;y way, and welcome! Hope to hear from you soon.

Possibly by next issue, I'll have a write-up on the experiences of three YL's in Nome during Iditarod. I'm not a writer, so I hope to have help from the other gals with this.

February and March are very busy months in this area. Fur Rendezvous going on in Anchorage, Iditaski, a 210-mile cross country ski race, Iditashoe, a 105-mile snow shoe race, and Jr. Iditarod for dog mushers 17 yrs. and younger. Then March 7th, the big one, Iditarod.

A new race starting in the area this year is called First Annual Iditarod International Pulka and skijoring race. The Pulka race is a 60-mile which combines cross country skiing and sled dog racing with a skier accompanied by a couple of dogs pulling a sled of supplies. Competitors in the skijoring race will be cross country skiers pulled by a dog for a distance of about 20 miles. Lots of exciting events and races going on including "out house" races!

Well gals, no news again this month. Please write or call with some news as to what you're doing so I'll have something to write about. Until next issue, take care. 33, Shari

VE DISTRICT NEWS

Stella Bradley, VE3NXG

On January 28th. the White Caners celebrated their 20th. Anniversary of Net Operations. Audrey VE3CC0, President of The Ontario Trilliums, sent a message of congratulations. Also, we offer our belated congratulations for this special event.

Golf seems to be the coming activity for many of our ladies. Mary VE3C0H and her OM Tom have become involved in golf and are enjoying the indoor instruction.

As well, Audrey VE3CC0 and her OM Terry have become addicted to this sport also. Good Luck, gals, with your golfing for the coming season — NOT TOO FAR OFF NOW.

Basil Gould, who does an excellent job as a volunteer for the VE3QSL Bureau, was the guest speaker at the Pickering Amateur Radio Club recently and from all reports was a great hit. His topic was 'QSL and Awards'. CONGRATULATIONS! Basil! Keep up the good work.

ONTARS (Ontario Amateur Radio Service) celebrated their 15th. Anniversary on January 8, 1987. Audrey VE3CC0, President of The Ontario Trilliums, sent congratulations. ONTARS can be found at 3.755 MHZ, 7:00 A.M. to 6:00 P.M. daily.

Congratulations to Beverley VE3LZU and her OM Jorgen VE300E who proudly welcomed the arrival of their son, Michael Edward, on December 23, 1986. What better Christmas present than to have their son arrive healthy and hefty weighing 8 lbs. 2 oz. We share your joy, Bev and Jorgen, and extend our very best wishes for the future for the whole family.

Audrey VE3ILT is the proud grandmother of grandson, Lee, born December bth. and weighing in at 6 lbs. 1 1/2 ozs.

Grace VE3HZB and her OM have enjoyed having their daughter Heather home for Christmas. Heather lives in Ottawa and is studying for her Master's Degree.

We were sorry to learn that Audrey VE3ILT was confined to hospital before Christmas. The eye on which she had a transplant ulcerated.- Happily She is now back to work.

Rumour has it that Devon VE3DEV was in hospital! with an eye infection but no report on how she is doing now. HOW ABOUT DROPPING ME A NOTE, DEV?

Gerry VE3NHP has had a busy time with her sister Claire in hospital in Smith Falls and her brother Armond in hospital in Scarborough.

The two newest members of The Ontario Trilliums, Helen VE3PUA and Wendy VE3ERT, are letting no dust settle on their keyers — both are now studying for their advanced ticket. LOTS OF LUCK, GALS!

Condolences to Mary VE3C0H and OM Tom VE3GZV on the loss of their son Rick VE3GJ1 in December '86.

Thelma VE3ARG and her OM Tom VE3BNV had twelve of the family with them for Christmas and at New Years enjoyed square dancing and a gathering at friends.

Barbara VE3BFN and her OM Charlie winter in Florida but at the present time are enjoying travelling throughout the Southern States.

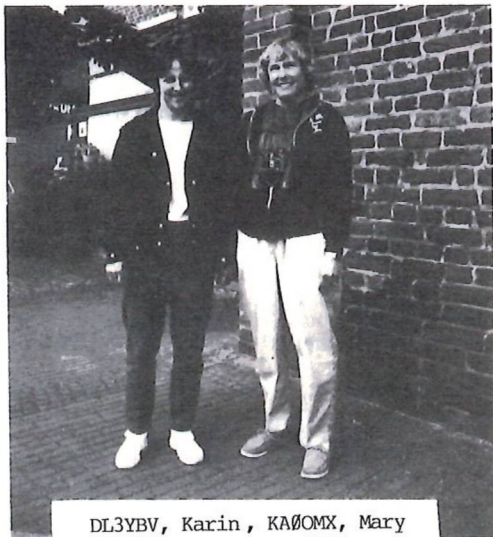
Thelma VE3CLT is looking forward to the arrival of her sixth Great Grand-child in the middle of February. Everything is going according to schedule so far. Mother and baby doing well — Grandma is having a few nervous spasms though.

Jean VE3BVJ and her OM are looking forward to some changes very shortly. Jean's OM is retiring in the middle of March and Jean is also considering retirement. They have a home in St. Catharines and anticipate moving there in May or June. They will be selling their home in Milton.

AGAIN — MORE LETTERS AND NEWS, GALS — KEEP THEM COMING!

33 & 73.i

Stella



DL3YBV, Karin, KA0OMX, Mary
at Borken, Summer '86



KA0OMX, Mary & DL4NAN, Rosemarie
Field Day, Jul 1986 nr Niirnberg

members of YLRL for 1987!

HB9ARC, Greta, missed seeing Vai, KH6QI, by one day at the Waldorf-Astoria in New York and attended the musical "Cats" on Broadway almost the same day as she. One evening they were entertained at a banquet on the 107th floor of the World Trade Center where they were met by opera stars who sang and accompanied them upstairs to again sing at the banquet. In the Bahamas they saw Paradise Island and visited a private island "Blue Lagoon Island" where they enjoyed a huge barbecue and all sports equipment for land and sea available with the emerald-colored sea around.

IIMQ, Ada, says her OM, Tullio, has had health problems. Their son, Beppe, has received his diploma as medical laboratory technician (tests, analysis, etc.) but she is afraid he will have to wait a long time to find a job as there is much unemployment among the young people. In the meantime, he is working as a volunteer at the Santa Corona Hospital. Their daughter, Anna, is still working in Imperia. A professor and doctor friend, Carlo, from Genova, IIBWB, advised that an Italian scientific mountaineer expedition sponsored by the Italian Medical Amateur Radio Group will go to Nepal next May and again in September. He has requested Ada to find out if JA and VU hams would be willing to assist in providing communications. The Italian ham who will go to Nepal is I4CDH and he works both SSB and CW. He has taken part in similar expeditions together with Bro. Bergamaschi and also operated BY1PK in 1985.

JA1AEQ, Fumi's OM, has retired from his business at the end of 1986 and since Fumi had been his secretary for 20 years, will now have free time to pursue other activities. She will start a new job as teacher of dressmaking and enjoys learning how to make American patchwork quilts. She also hopes to be more QRV on the ham bands. JA1AEQ, JA1EYL, JA1YL, JF1IZM and JF1WMY invited Marion, WA7TLL, and her OM for tea and cake in the hotel coffee shop of their hotel in Tokyo and they had a delightful time.

JH3SQN, Nozomi, extends best wishes for all members of YLRL for a Happy 1987 and enclosed several photos of her grandchildren, Halley's Comet, etc. Nozomi and her OM had the good fortune to observe Halley's Comet. She has started in telecommunication between her computer and her sons. The Kyoto doctors ham group is studying immunology on 1.2 ghz. FM every Wednesday nite. Jeanie, WA6UVF, and her son, Scott, operated Nozomi's station last July and contacted many JA-YLs and OMs although conditions were poor. When Nozomi and her OM visited Western Australia, they were entertained by Poppy, VK6YF and her OM, Les, VK6EB.

JP1CZV, Chikako Maeda, has upgraded to 2nd class and is now active on 20 meters! Congratulations Chikako!

J87CD, Sue, has moved back to Wales with the call sign of GW0AWT and hopes to be QRV from mid-March until she returns with the OM to St. Vincent in June if his contract is renewed - probably for one year, the 5th and final one. She is looking forward to QSOing the many friends of YLRL from Wales as soon as the antennas are up.

LA8EU, Ingrid, has been ill for 3 years with amalgam (quicksilver) poisoning and when she has recovered, is looking forward to being QRV on the ham bands and meeting many old friends.

LX1TL, Lea, and her OM, send best wishes to all members of YLRL for a wonderful 1987!

OH5MX, Tuija, got her Harmonics 13 days after it was sent. Sometimes, it takes 2 months. The temperature got down to -33 C many days with much snow and darkness. She is anxiously awaiting summer and the midnight sun. She extends best wishes to all members of YLRL for 1987!

0Z1GLN, Anne, was delighted to receive Top Flight Operator Award from YLISSB #287 - she was told on the 2nd day of 1987! She enjoyed a happy Christmas with her brother and family as well as her mother from Germany. The best gift she received for Christmas was a bird house shaped like a house with a barbershop in it from an old pen pal, ex information Officer at Thule Air Force Base and now Lt. Col. in Washington, D. G. They used to sing barbershop together at Thule (Anne with a low female voice) and his group, the Alexandrians won the National final.

SV1VH, Kate, and her brother, Takis, SV1VF, are often QRV on 14.332 on Sunday mornings. Kate is studying English-Greek typewriting and telex in order to get a job with Barclay's Bank and is also looking after a 5 1/2 year old girl three times a week.

VK2HD, Heather, has been busy looking after her grandson, who had major surgery to his back—a bone graft and insertion of a stainless steel rod, but he is determined it is not going to hinder him too greatly.

VK3YL, Austine, sends best wishes to all members of YLRL for a Happy 1987 and sent me a lovely handkerchief bordered by Australian Wildflowers. Thanks so much Austine!

VK4VG, Josie, extends best wishes for all members of YLRL. She was thrilled to learn that a gentleman she has been coaching received his results of 82% after having failed the full call theory 4 times previously.

VK6YL, Jill, is feeling much better and is now busy with preparations for moving into a new home and hopes it won't be long until she can get the two 80 foot towers up and again be QRV on the radio to talk to old friends all over the world. Good luck Jill and hope to hear you soon!

VU2AIG, Grace, extends best wishes to all members of YLRL for 1987! Grace and her daughter, VU2AIJ along with 0M, Dasan, VU2AID, enjoyed a holiday to Singapore, Malaysia, etc. They met a few hams, 9V1QG, 9V1ED, 9M2GH, 9M2KN, etc. She was born in that part of the world and enjoys the language and culture. She invites all YLs to join the VU-YL Net on Mondays between 1230 GMT and 1330 GMT around 14.188 when propagation permits.

VU2RBI, Bharathi, is going on a DXpedition to Andaman and Nicobar Islands along with 20 other VUs from February 20th and will operate under the call of VU4APR from Andaman, VU4NRO from Nicobar and VU2APR is the QSL Manager.

XE1CI, Nellie, called me while she was visiting San Diego for a few days. She became grandmother again on December 10th when her daughter, Patsy, gave birth to a beautiful son, Alex. Congratulations Nellie! Nellie will try to be QRV at 23C0 GMT Monday, Wednesday and Fridays on the YLISSB 14.332 for at least 30 minutes and will be happy to QSY to 14.077 +- for RTTY contacts. Nellie is the first Mexican YL to be QRV on RTTY and AMTOR. In addition, she is President of the Emergency Systems in Mexico; first Mexican YL to operate from 4U1UN in New York; and an active DX'er. She is planning to attend the Dayton Hamvention and looks forward to meeting many YLs. She also hopes to attend the YLISSB Convention in Des Moines in June but not sure if it will be possible.

Y04UJ, Maria, sends greetings to all members of the YLRL. Her son, Alen, is now Y04.20133 and in a few months will be a new ham. He studies ship architecture and is in his third year. Her 0M, Sever, must undergo heart surgery this year. They are also hoping to fly to South Africa. Maria is looking forward to QSOing KG1F on the air soon.

YT3YL, Alenka, won the DX Hager Award for the 1986 YLAP. Congratulations Alenka! She was thrilled to work the DXpedition "3Y" to Peter Island. To celebrate, Boris took her out to a nice restaurant for pizza and wine. She loves the ham life!!

ZL1AJL, Carol, advised her OM, Dave, had his first QSO on 20 meters and managed to work Peter Island from his in-laws' QTH. Carol and her OM recently returned from a 2 week holiday in the Northland where they visited an excellent glow worm grotto about 18 km. from Kaitia which was discovered 2 years ago. Carol is hoping to get a beam up soon to improve her transmitting conditions. WARO will be celebrating its 25th anniversary and there will be a special award. (Details contained elsewhere in this issue).

ZL1ALE, Aola, and her OM, Dave, will be celebrating their Ruby Wedding Anniversary on March 1st and are planning to travel to Norfolk Island for about 10 days. Their children are taking them to the Kenny Rogers/Dolly Parton concert followed by a dinner afterwards. Congratulations Aola & Dave!

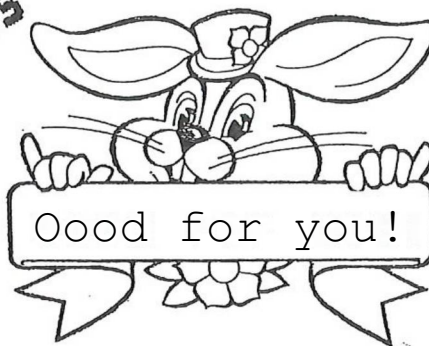
ZL2QY, Pearl, is busy learning how to use the Word Processor. She is going to start on organizing the YLCC cards for award purposes and Flo, KU7F, has kindly offered to put them in alphabetical order.

ZS5VF, Vicki, has been extremely busy at work leaving little time for hamming but she does want to extend best wishes to all YLRL members for 1987!

ZS6GH, Diana, has been swamped with correspondence but wants to pass along best wishes to all members of YLRL a Happy 1987!

4X6KT, Katy, sent a lovely picture postcard from England where she is spending two weeks with two of her sons, mostly around the London area. They visited many historic and beautiful places and attended some of the best shows.

Congratulations



Well done!

Upgrades!



KD2EN/1, Esther to Extra
 WA2LGZ, Deborah to Extra
 NV20, Shirley to Extra (ex—KA2TDX)
 N2GW0, Ruth to General (ex-KA2ZRP>
 KA3QWP, Nettie to Technician
 KA3PSI, Margaret to Technician
 KA3PSC, Heidi to Technician
 KA3LUM, Janice to Technician
 KA3PWF, Wendy to General
 KK4FH, Virginia to Advanced (ex-KA0BVU)
 W16A, Donna to Extra (ex-N6LDR)
 KA8VAL, Denise to Technician
 N9CLZ, Pauline to Advanced
 NQ9K, Jacqueline to Extra <ex-KD9ZB)
 JP1CZV, Chikako to 2nd Class

PROPAGATION REVISITED

Mary Lou Brown, NM7N

Last year at this time when I wrote about propagation, I intimated that we should start to see an improvement "by the end of 1936". Well, it is now 1937 and propagation is still poor. Getting impatient about the situation, I decided to take a more detailed look at solar cycle phenomena and in particular cycles 20 and 21 (the last two cycles).

A review of graphs of smoothed sunspot numbers from the year 1750 to the present demonstrated the cyclical peaking on the average every 11 years. However, there was just enough variation from cycle to cycle to make any conclusions about the end of our present cycle and the beginning of the next one very tenuous at best. A case in point was a prediction made for cycle 21 which indicated that it would have much lower sunspot values than cycle 20. Cycle 21 ended up with higher sunspot numbers than cycle 20. Thus it seemed the best thing to do was to look at what has been occurring during the decay of cycle 21 and what is happening right now to get a handle on when conditions might start to improve.

As suggested in my first article we have been plotting the daily values for solar flux and the A index as reported by WWV. The plot was started in the summer of 1982. Consequently we have data from soon after the start of the decline of cycle 21 to our present state, down in the doldrums. Starting mid-September 1984 the flux hit a low level around 70-75. The background flux level slipped gradually down to the 60's about a year later and since then has hovered around the upper 60's to lower 70's. However, at times there were periods of increased solar flux. These periods exhibited two different patterns, a monthly cyclical pattern and isolated occurrences. The former appeared to peak about every 27 days coinciding with the rotation period of the sun. These recurrent peaks tended to have flux values in the upper 80's and 90's. They recurred from one to four times. A good example of an isolated flux increase occurred last October when the flux peaked in the upper 90's then did not recur the next month. The flux started to rise on the 16th of October, reached its peak of 99 about the 23rd and then slowly decayed to background values by November 8th. Anxiously we awaited its recurrence, expecting a peak around November 19th, but the flux stayed down in the mid 70's.

Flux values are statistically related to the number of sunspots. Solar flux values are obtained from radio telescopes which measure radiation from the sun in the radio frequency range of the spectrum. The flux value reported by WWV is from the Observatory in Ottawa which records frequencies of 2800 MHz (no I did not forget the decimal point). However, these radio frequencies do not have enough energy to produce ionization in our atmosphere, the stuff we depend on for radio propagation. It just so happens that flux values are reasonably well correlated with the number of sun spots. There is also a positive correlation between sunspot numbers and HF radio propagation. Now, a sun spot in and of itself does not necessarily produce emissions that affect propagation. A sun spot is a relatively cool spot on the sun. In the vicinity of the sun spot in the sun's atmosphere is a magnetic field. The amount of radiation coming from these active regions varies greatly, from a fairly steady background level to explosive outbursts. The steady background radiation gives us our day to day ionization in the F region. The outbursts may affect propagation in many different ways.

The peaks in solar flux we have been noting during this period of low background flux levels, have their origins in active regions on the sun which may persist for a period of time. Thus we see rises in solar flux each time the sun makes a rotation. Some times the active region is relatively short

lived and has decayed by the time sun has gone through a full rotation. Hence; we may observe phenomena showing recurrent peaks with each of several rotations of the sun or we may see only a single occurrence of a peak in solar flux.

So far I have only been writing about conditions as they have been the last 2 1/2 years; modest recurring and isolated changes in solar flux. As the next solar cycle picks up; sun spot numbers will increase and propagation conditions will be more and more under the control of solar flares; explosive emissions from active regions on the sun. The emissions from the flare of interest to us are made up of a mixed bag; electromagnetic radiation which travels at the speed of light and particles which come more slowly. The former is composed of high energy X-rays down through ultra-violet light and reach earth in a little more than eight minutes. For large flares the effect from such radiation is increased ionization in the D layer resulting in greater absorption of our radio frequency signals. If the 0 layer ionization is sufficiently great; a blackout in communications lasting up to 30 minutes can result on the sunlit side of the earth. These disturbances are referred to as SID's; sudden ionospheric disturbances. In smaller flares there may not be sufficient high energy radiation to affect the D layer.

Aside from SID's, which are relatively infrequent, the more dramatic effects on propagation come from the particle emissions composed of protons and electrons. The more energetic protons, called solar cosmic rays reach us in anywhere from 15 minutes to 15 hours after a flare and last from one to several days. These energetic particles penetrate the D layer, primarily in the polar cap regions, and may result in increased ionization and, hence, absorption of HF signals. The effect is called a polar cap absorption. The slower cosmic rays, also protons, get caught in the magnetic fields which pervade interplanetary space. They wander around in the magnetic field until they escape and eventually reach earth's atmosphere. Because these particles continue to arrive for a period of time, they can result in the D region being disturbed for days. Other protons and electrons (called solar plasma) have much lower energies than cosmic rays and start to reach us in 20 to 40 hours following a flare. These low energy particles may produce geomagnetic storms which, in turn, produce ionospheric disturbances resulting in ionization being removed from the F region. Without sufficient ionization in the F region propagation over long distances becomes next to impossible.

Flares also emit radio frequency waves which we perceive as bursts of noise. These bursts vary in time as well as frequency. The first bursts, of which we are usually unaware, occur at frequencies way above the 2 meter band. How long these bursts of noise last or how low they extend down in frequency varies from flare to flare. It takes a large flare to bring the solar noise down into the HF bands where we operate. Most of you have probably heard such a burst of noise; sounds like a "whoosh", which rises in strength and then declines. The "whoosh" is a sure sign that a sizable flare has occurred and that one can expect a geomagnetic storm to follow in 20-40 hours.

One layer of the ionosphere about which we hear little is the E region. This layer is ionized by low energy X-rays and ultra-violet radiation. The ionization is dependent on the presence of sunlight. Radio signals must be at a high enough frequency to pass on through the E layer to the F region. This minimum frequency is called the "E cut-off" frequency. As solar activity increases, more low energy X-rays and ultra-violet radiation reach the E region resulting in increased ionization. Hence, as we progress to solar maximum the frequency needed to pass through the E layer will also increase. Signals below the E cut-off frequency, if they aren't absorbed in the D layer, will be reflected by the E layer (below the F layer), resulting in short skip. While we lose the use of lower HF bands for long distance propagation, we gain

in the use of the higher HF bands.

What does the future hold for us? As I mentioned in an earlier article? the major indications that another cycle will be starting are the appearance of sun spots at the higher latitudes on the sun and a change in polarity of the spots. According to recent reports the newer sun spots in evidence have appeared at mid latitudes and do exhibit a change in polarity. What this all means is that in the not too distant future, nobody really knows how long, we should start to see increases in solar activity. SID's instead of averaging 2 per year at solar minimum could increase to 1-2' per week at solar maximum. Geomagnetic storms will tend to increase from 4-6 per year to once every one to two weeks. As you can see, there will be times when it is pointless to sit there calling "CQ DX" during a geomagnetic storm when the ^HA" index is 50 or during polar cap absorption which wipes out high latitude paths. However, in between, the heightened solar activity will also greatly increase the ionization of the F region and propagation will be fantastic.

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A REPORT OF PERTH, WEST AUSTRALIA by Nozomi, JH3SQN

April 1986 Kyoto

Ken and I visited to Perth of West Australia to watch Halley's Comet with JA doctor's ham friends in April '86. For 4 days, we observed Halley's Comet under different conditions each night.

The first night, it was at an airport of U.S. military basement in Learmonth, over 600 miles far to north from Perth, our Jambo landed and stayed for 5 hours (1 am — 6 am), for a thick fog in Perth, and the airport was closed until ... maybe...sun rise. There is in a tropical zone, it's too hot. We were permitted to get off on the ground there for 10 minutes to see the sky, then found Halley's Comet in full starry sky and taught the position to my friends. It was not so easy to find it, for it was thin.

The 2nd night, the sky was clouded over, but it was windy, then we expected clouds broke, drove away 50 miles from Perth, to take nice photos at a dark place. On our way, we were caught in a shower, but we got some clouds-broke, was able to take some photos of the comet upon treetops of eucalypti.

The 3rd night, it became fair and we were able to see the comet through the window of our room of the hotel and even so from the garden or the street. But we couldn't take any photos there, for many lights came to the lense. This night, we stayed at hotel for a rest.

The 4th night, it was fine, my 3 friends hoped to take photos, for they might not get any nice photos in short time 2 days ago, then we drove again with them. We were able to see many many stars in the clear sky and settle down to take good photos, mainly the comet, the Southern Cross, the Milky Way with silhouette of the treetop. They were already my old familiar faces, for I met them every night for long time. Hi.

The other hand, at daytime each member of us moved by each own plan. Ken and I took part in cruise of the Swan River to a winery. The captain was a good guide and a nice entertainer, to my regret, although I couldn't understand his Jokes, all other tourists, almost Australians, laughed loud and long at his Jokes. At the winery we had a tast of about 20 kinds of good wine. I took a

■fancy to 4 kinds of them, then my baggage became heavier. Hi. At the way back, many tourists enjoyed dancing in spite of a narrow aisle of the boat and listen gay music until the boat got to a pier, I was surprised people drunk so much during the day. Hi. It was a really pleasant day.

The first evening, I made a skd time with F'oppy, VK6YF on 146.7 MHZ FM. At the time, I was taking supper at a restaurant in downtown. I had to go out on the street for QSQ with a small handy transceiver. My callsign was VK2C5N (Gohara Nozomi) and Ken's was VK2CGK. Two days later, Ken & I visited Poppy and Les VK6EB at their home in the suburbs of Perth and had pleasant time to chat. Their lovely grand-daughter Kobby awoke up during out chat, then she took part in our company

After we said <good bye!> to Poppy 8< Les at their home, we drove more i to to north and visited an Aboriginal culture complex, although it is not a sightseeing spot, for Ken had studied about Aborigi nal history and culture in Japan. We met an Aboriginer, might be 40-50 aged, named also Ken! He was frank and great fun. We visited an elementary school by his advice, Boys ■?< girls were cheerful and pretty. Fortunately we were able to play with many black swans at a lakeside. They are the symbolic bird of West Australia. and it is Just before they flew away to inland. Poppy & Les came to see off us at the airport with Kobby on last day. Kobby hoped to play with me, for she was already my nice friend. She is really pretty girl.

JH3SGIN Nozomi

YL CALENDAR

DX YL TO NORTH AMERICAN YL*

CW: Apr 8-10, 1987
SSB: Apr 15-17, 1987

YL "SPRING FLING" MINI-CONVENTION

May 29-31, 1987; Ft. Myers Beach, FL - INFO: Myrtle Farnsworth, N2AKC, 142 Kihade Trail, Medford Lakes, NJ 08055

MEET THE NOVICES & TECHS DAY*

June 6, 1987

YL/OM SUMMER SSB SPRINT

Aug 1, 1987, 1800 - 2200 UTC
See YLH #3

*Details in YL Harmonics #4, 1986

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