

THE RADIO AMATEURS OF CURRY



VOLUME 3, No. 2

March 1997

YOU WANTA' BE A DXer?

Think working DX is difficult? Never worked DX? It's not as difficult as you think. I'll try to give you some pointers to make it a little easier. You really don't need a huge antenna farm with monoband phased arrays and a kilowatt to work a great deal of DX. All it takes is patience and a small amount of skill. The three most important things when working DX, is timing, timing, timing. The DX station won't hear you if you transmit at the wrong time or the wrong frequency.

Let's suppose you've come across the expedition to Heard Island on the low end of 40 meters. Instead of blindly calling, just observe the operation of the station for a little bit. Since the Heard Island Dxpediton, is a large, well organized event, you will find that the operator is quite skillful. By listening, you can find out if the station is running simplex or split. You can tell this by listening to the stations coming back to him and by him saying things like, up 5. If he's running split, observe his operation. Does he work a station and then move up a half kilohertz, or does he seem to stay on one frequency until the pile up on that frequency gets so bad that he then moves 2 kilohertz? Try to find a pattern to his operation. If he says "up" and the pileup is 10 kilohertz wide and he slowly moves up the band as he works stations, does he go back to the beginning of the pileup when he gets to the top, or does he slowly slide back down. Now try to position yourself so that when you call, he'll most likely be listening to that frequency. When he signs with the station probably by saying TU, then give your call once. Listen to see if he goes back to you or someone else. If there's no response, give your call again and listen again and continue to repeat this procedure. If the operator is skilled, he will be working many stations per minute and will come back to a station after one call. If he asks for a W8 and you're a K3, DON'T call. Also don't try to call when the other station is working him. On CW it would help to have a memory keyer and the better your CW skill the more DX you will work.

On sideband, use the same procedure, but try to squeeze your call in at opportune times. The pileup might be horrendous, but finally stations will shut up to see who the station came back to if he's running simplex. This is a good time to slip in your call. Listen to see if the operator wants full calls or not. If not, many times you can slip in the last two letters of your call at just the right moment.

You will find that the larger the expedition, the easier it is to get through. These expeditions run multiple stations 24 hours a day, and use techniques to keep the pileup manageable, such as taking only one call area at a time. They also work a band down to the weakest signals, so if you don't get in the first few days,

you will if you persist. These expeditions also usually have large signals and skilled operators to help you get your contact.

Even though the sunspot cycle is still at its lowest point, you will find many expeditions on all bands to sharpen your skills. Give DXing a try and you will soon see that it really isn't that hard to work DX and you might like the challenge. See you in the pileups.

--Craig Hill, K3PLV

FIRE EXTINGUISHED ON MIR

A problem with an oxygen-generating device on the Mir space station recently set off fire alarms and caused minor damage to some hardware on the station. No injuries to any of the six crew members on board were reported. The fire was located in the Kvant 1 module.

The fire, which began at 10:35 p.m. Sunday, Moscow time, burned for about 90 seconds. The crew was exposed to heavy smoke for five to seven minutes and donned masks in response. After completing physical exams of everyone on board, U.S. astronaut Jerry Linenger, a physician, reported that all crew members are in good health. Medical personnel have directed them to wear goggles and masks until an analysis of the Mir atmosphere has been completed.

Lithium perchlorate candles are burned to generate supplemental oxygen when more than three people are on board the space station. The oxygen-generating candles usually burn for five to 20 minutes. Russian officials believe the problem began when a crack in the oxygen generator's shell allowed the contents of the cartridge to leak into the hardware in which it was located. Crew members extinguished the fire with foam from three fire extinguishers, each containing two liters of a water-based liquid.

The damage to some of Mir's hardware resulted from excessive heat rather than from open flame. The heat destroyed the hardware in which the device, known as a "candle," was burning, as well as the panel covering the device. The crew also reported that the outer insulation layers on various cables were melted by the heat. It is reported by Russian flight controllers that all Mir systems continue to operate normally, however.

"It is unfortunate that this incident occurred, but we are thankful that there were no injuries," said Frank Culbertson, Director of the Phase One Shuttle-Mir program. "Russian management and operations specialists have been very informative as to what happened, and we are working closely with them on evaluating

(Continued on page 10)

this page will contain the front page of
"alphabetized by call" roster

GET THOSE QSL's

Several people have commented about how lucky I am to get so many QSL cards in the mail. Actually, there is no luck to it. I make it happen that way. I like to get mail from far away and exotic places and I like to paper my walls with QSL cards. It is part of the hobby of amateur radio.

If you want to get QSL cards, first you have to work the stations. You can't do that from in front of the boob tube. you have to get on the air. Once you make contact, no matter what mode your using, you have to be courteous. You have to share with the other Ham a few facts about where you live, what you do for a living, what is the culture of the community you live in. Most Ham's are in the hobby to explore places they have never been to and may never see in person. You should also express an interest in the things they share with you. Remember, most Ham's like to brag about their equipment, their families, their community. That's why they are called Ham's.

Now that you have a few successful QSO's in your log book, lets see how we go about getting a QSL card from the people you have talked to. There are certain rules to follow. I have never seen them written down any where but I have listened to bits and pieces of information I have heard from successful ham operators, especially those who go after DX. I shall attempt to list these rules in the hope that they will help you get a very high percentage of returns on QSL's like I do.

1. Keep a log book. I know it is no longer required but it is fun to look back at all the stations you have worked. you can also keep track of who you have sent QSL cards to and who you have received them from. You can also make notes on things you want to remember about the QSO in the comments column.
2. Fill out you QSL's at the end of each operating session. That way the information you exchanged is still fresh in your mind and it is easy to write personal comments on the card. A week later you will have problems with what comments to make.
3. Make your own QSL cards good looking. Whether you design them yourself or have them done by someone else, make sure they stand out on a wall full of cards. Don't use the same format as every body else. Stop and think about it. when you get a really sharp looking QSL, you are usually eager to answer it aren't you?
4. Use stickers and club emblems on your card, but don't clutter the card with too many. One or two is enough. Use an emblem that is internationally known such as the ARRL emblem , the FISTS CW CLUB emblem or QCWA emblem .
5. Put all the pertinent information to confirm the QSO on the front of the card. Also your county and QRA grid locator should be on the front. Save the entire back of the card for your personal note to the other operator.
6. Always, I say again, ALWAYS write a personal note on the back of the card. If he has a good signal, tell him so. If she has a good fist on CW, tell her so. Comment on how you enjoyed the QSO. If you run out of anything else to say, tell them what your rig, antenna and power are. but skip these things if you have good comments to make. The other Ham knows you bought your equipment the same as he did. I often give my age and how long I've been a ham on the back of the card too. Sign your note with "73" and your name, and don't forget to write "PSE QSL" in the lower left-hand corner, or "QSL TNX" if you have already received their card.

7. Get yourself a call book, or use one of the packet servers that will give you the name, address, and QSL manager of any station you talk to. That way you can get the QSL card into the mail within a day, and it will arrive before the other station forgets the QSO. Remember, his memory isn't any better than yours. If you wait a week, he probably won't know what to write for comments and will let it slide.
8. Never, ever, mail a QSL card as a post card. Put it in an envelope and send it first class. What the postal service does to a QSL card not in an envelope should rank right beside wife beating. If possible, have someone with a laser printer print a bunch of custom envelopes for you. Make them sharp looking. It will save you time if you don't have to write your return address on each envelope. When you write the other operators address, start it with "Amateur Radio Station WXXXX" then his name and address printed clear enough that even a postal worker can read it.
9. When you buy stamps for QSL cards, ask the post office for "commemoratives". Never use plain Jane, generic stamps. You want to catch the eye of the other ham as he sorts through the pile of mail he just took out of the mailbox. If your letter looks sharp enough he may open it first!
10. When you work a lot of DX, use the outgoing and incoming QSL bureau's. If you try to mail direct to these people it will cost you 60 cents per shot for airmail postage. You can keep peace in the family and save the price of your ARRL subscription quickly by using these services. It makes little sense to spend 60 cents to mail QSL's to Spain when you already have ten Spanish QSL's on your wall.
11. The station you just worked on Nevis Island is a different story though. He is a rare one that you have never worked before and requires special handling. In this case you send your QSL in a no. 10 business envelope with AIR MAIL or PAR AVION stamped on the envelope and remember to use your best commemorative stamps.
12. The rare DX may also be using a QSL manager. IF so send your card to the QSL manager, NOT the DX.
13. To increase the chances of getting a reply from the rare DX, send him a self-addressed air mail envelope. Enclose one or two IRC's (International Reply Coupons) which he can use to purchase return postage in his country. Most rare DX countries are poor and the IRC's will make a difference. IRC's can be purchased at any post office for a little over a dollar, a small price to pay for that rare one on your wall.
14. Many good DXer's also include a post card showing the country and culture they live in. I keep my eye open for such cards and always have a few on hand. Some DXer's include expired phone cards or postage stamps from their country. I even got some travel posters from Cuba written in Spanish. Remember, any edge you use increases your chance of getting a return card.
15. When sending QSL cards to foreign countries, do not put the DX call sign or the fact that he or you are a amateur operator on the envelope. This announces to their postal workers that there might be money or other goodies inside. Simply use names and addresses on DX. Remember to use security envelopes as well.

I hope these rules of QSLing are of help to you and I hope that a year from now you can look up at a wall full of great looking QSL cards from all over the world. Just remember, YOU make it happen!

--Bob Swarm, K3CKO

This page will contain page two of the
"alphabetized by call sign" roster

This page will contain page one of the
alpha by name roster.

This page will contain page two of the alpha by name roster

RAC Minutes
Corry Red Cross Building
Tuesday 7 January 7, 1997

Meeting called to order at 7:30 PM by WB3AYW (President) with 12 members and 1 guest present. Each person introduced themselves including W3GHO Vice President, KE3PD Secretary, and N3GCV treasurer.

Reports

KE3PD gave 3DEC96 minutes and N3GCV gave treasurers report. Motion for acceptance by WA3HDK, seconded by N3WNP.

Old Business

WT30 questioned if QSL card was sent to SWL listener as noted in December's meeting. W3CG said yes.

WA3HDK gave newsletter costs, etc. WA3HDK presented check and letter from K3AQR for work done by club for the Ham of Year Award. Check was for \$15 and it was decided to credit \$5 of it for K3AQR 1997 membership dues. Check given to treasurer.

WT30 noted check received for \$200 from VFW for 5DEC breakfast and said VFW was very happy with our performance. WB3AYW said next breakfast is 27 April 1997, a Sunday, at Corry VFW.

WT30 Regarding 50/50 winner Vickie Snyder, can't find her. Post office unable to give address. He will pursue more avenues for present. WT30 also turned over the check for \$200 plus \$500 cash from 50/50 ticket sales to treasurer N3GCV. WT30 said plaque for VFW appreciation (of sponsoring our breakfasts) was available at TJ jewelers in Corry for \$16.95 plus about \$0.15 per letter for engraving. WT30 will purchase it when general wording is decided. WA3HDK will work with WT30 to decide wording. Next club meeting will decide who will present plaque to VFW on 2/11/97.

WT30 gave N3QCV receipt from club's donation to The Stanbro Fund.

New Business

N3WNP noted Westfield, NY hamfest on 2/15/97.

WB3AYW 2M spare antenna tabled for now. Guy wire covers not on yet. WT30 noted electric company may do it.

WT30 questioned about a key in desk at Red Cross building for radio cabinet. WB3AYW will check it out.

WB3AYW Repeater committee will be WB3AYW, WT30, WA3HDK, KE3PD. W3TO is repeater trustee. WT30 is net control officer. KD3II noted tower ownership transfer to RAC is at a standstill.

N3GCV showed print of club logo which he and K3CKO did.

WT30 passed a project sheet around for people to look over and build if they care to. WT30 said station manager of Corry radio station could be available to speak at a meeting of our club. WT30 will contact him for our March meeting.

Additional 50/50 winner tonight WT30, \$6.00 (W3BZJ wasn't here so everyone got a chance to win). Club share was \$6.00.

W3GHO motion to adjourn. 2nd by WA3HDK 8:31 PM.

NOTES: Dues K3KI, KD3II and N3NWS paid 1997 dues. KD3II will present bill for Hopkin's fruit basket we got them for Christmas at next meeting.

--KE3PD Frank, Secretary

RAC Minutes
Corry Red Cross Building
February 4, 1997

WB3AYW called meeting to order at 7:28 PM. Sixteen members present. Officers present WB3AYW, president and KE3PD, secretary. N3GCV treasurer and W3GHO vice president are absent. All members gave their name and callsign.

KE3PD read 7 Jan minutes and also treasurer's report. Approved motion W7RVY, 2nd W3BZJ.

WA3HDK gave costs for last newsletter.

Old Business

WA3HDK. Vickie Snyder (winner Christmas party 50/50 ticket drawing) has been located. WT30 and N3GCV will contact her to identify and present check for \$250.

WT30 RAC has been requested to furnish help for "fly in" breakfast. No date yet. N3GCV will pursue.

W7RVY Questioned where tower property paperwork is at.

WB3AYW no action at present.

New Business

WA3HDK Distributed ARRL and 10/10 bulletins. Noted contents of some.

WT30 Requested notices be sent to members not paid up for 1997. WA3HDK will send notices later in 2 weeks.

KE3PD Noted dues paid since last meeting - 8 people. Also K3HWL gave \$15.00 extra for ad in next newsletter.

WB3AYW Noted Chautauqua Co. Amateurs hamfest 2/15 and Lake County 3/23.

W3XE Note Conneaut, OH hamfest 3/9.

WB3AYW Noted 4/27/97 RAC breakfast at Corry VFW. Need at least a firm 7 workers per shift. Also sent around literature for club projects.

N3WNP Commented on the project sheets he bought tonight.

WT30 Need to get manager for field day in June, WB3AYW will contact W3GHO regarding subject.

WT30 Won 50/50 Drawing, \$7.50 for him and \$7.50 for RAC. Members renewed for 1997 at this meeting were Cliff, KE3SM, Dave WX3E, Judy N3OZH, Sam N3UDS and new member Richard N3YPT.

Meeting adjourned 8:11 PM motion. W7RVY, 2nd WT30.

--Frank KE3PD, Secretary

RAC Minutes
Corry Red Cross Building
March 4, 1997

WB3AYM called to order at 7:28pm. 18 members present, WB3AYW President, KE3PD Secretary and N3GCV Treasurer present. W3GHO VP absent. All members introduced themselves and new members N3YEU and N3YQG also.

KE3PD read 2/4/97 minutes. N3GCV read present treasurer's report to date. Both accepted - no objections.

OLD BUSINESS

K3CKO noted JOTA dinner attended and RAC received recognition for their participation. Noted he received 10 QSL cards for 35 contacts. A job well done Bob.

WT3O still trying to get Corry radio station (WWCB) manager to come to a future meeting. No responses to phone messages left. Jim also noted some of future WWCB plans he heard of. Also noted our 444.800 repeater was tuned up by KE3JP on 2/27/96.

KD3II got 1 guy wire cover on tower.

NEW BUSINESS

W7RVY questioned if anyone had sent letter to FCC regarding frequencies auctions? KE3PD wrote per instructions in QST.

WA3HDK needs articles for next newsletter. It will be distributed at April 1st meeting. Also presented bill to treasurer for last newsletter. Also sent out 26 letters to 1996 members for dues request.

N3GCV noted he received bill today for flowers sent to KA3WNL's dad.

WA3HDK made motion for a budget committee to be formed, 2nd by W7RVY. Voted by members present to be 3 including treasurer. WB3AYW selected N3XTA, WA3HDK, and N3GCV, treasurer.

N3LBI requested call signs of members with 2 meter and 6 meter SSB capability - for Erie County emergency use.

WT3O questioned if any field day action yet? WB3AYW has not got response to his telephone call to W3GHO. N3GCV and K3CKO volunteered to handle field day.

WB3AYW said Club officers and committee managers meeting will be scheduled at April's meeting.

WB3BZJ motioned that WT3O and N3GCV be given credit for checking in on net when they were at VFW meeting presenting the RAC plaque.

WA3HJC asked if any action on 2 meter rig for Red Cross Bldg? General discussion by group. W3AHH will bring his down for any emergency. WT3O and W3AHH will test out equipment.

WA3HJC noted color monitor in WSEE for Skywarn use.

WT3O read letter regarding Skywarn training from Cleveland. WT3O and KE3PD will approach local area fire and police departments to see if they are interested in training classes.

WT3O recommended a donation cup be put at coffee pot to help defray cost of donuts, coffee, etc. WB3ZJ motion be done, 2nd KA3WNP. KD3II cup already there.

N3GCV gave comments on his trip to Edgewater, Florida and attendance at local Ham Club meeting. Very receptive to his comments there and he is in contact with them by e-mail.

General discussion on 220 Mhz and 6 meter repeaters. No action taken.

50/50 drawing \$9.00 won by KE3PD. Club share also \$9.00.

Motion for adjournment W7RVY, 2nd W3BZJ at 8:54 PM.

--Frank KE3PD Secretary

AMATEUR RADIO. .

Do we distill order and meaning out of the chaos of everyday life? Are we deadened by a constant electronic barrage of facts or pre-selected images? What is the future of amateur radio?

--K3HWL

FOR SALE Astron 35M PS, \$140: Astron 11M PS, \$55; Alinco DJ-508T dual band HT with 3 batteries, hand mike, W & W Deluxe charger, mobile power cable. \$275. All items mint. Greg AA2FX, 663-0609

RAC SALUTES

Robert E. Bair, WA3HDK

In this issue we feature Bob Bair, WA3HDK. Bob graduated from Green Township High School (Indiana County, PA.) in 1952 where he was third in his class. After "a stint with Uncle Sam," he graduated from Indiana State Teachers College in 1960 with a major in Business Education. He went on to receive his Masters at Indiana University in 1974, majoring in Learning Resources.

Bob ran a professional photography business in Indiana County working mostly candid weddings and kids. He handled development services for three drug stores and ran as high as 20 rolls of film per day. In 1960 he closed his photography business due to his school load and soon after took a job teaching typing at Mount Lebanon, PA.

He then took a job teaching Business subjects for Union City schools. Four years later he made a move to Erie Business Center on 9th Street where he taught mostly typewriting for 4 more years. He left Erie Business center and worked at the General Electric Company, Transportation Systems Business Division for one year where he wrote technical manuals for radio-remote control systems for railroads. He was then offered

(Continued on page 9)

and accepted a position from the Wattsburg School District where he taught business subjects until he retired in 1992. While at Wattsburg, Bob designed and supervised the wiring of the new High School for cable TV. He also designed a complete TV studio which was never built due to lack of appropriations.

Bob met his XYL, Marlene, WA3BLN, at Erie Business Center in 1967 and they married in 1969. They lived on Station road a few miles southeast of Interstate 90.

In 1985, the day after "the tornado", they looked at a house on Fenno road outside of Beaverdam. They decided to buy despite the total destruction across the road., and became residents of our fair community.

While Bob was teaching in Erie, he attended the Radio Association of Erie ham radio classes and met a ham operator named Bart Geer, W3SN. In 1965 Bart gave Bob the Novice and Technician tests and Bob got his amateur call, WA3HDK. His first transmitter was a Heathkit DX 100 which he bought used. It had been stored in a basement so long the shafts on the potentiometers and tuning capacitors were rusted and had to be freed up. There was also rust on the chassis causing the 5R4 high voltage rectifier sockets to arc to ground. Bob had to rebuild the HV section, mounting the 5R4 sockets on standoffs. His first receiver was a Lafayette KT 320 which he built from a kit. The dial backlash was "something else" and the KT-320 was soon replaced with a Hamerlund Super Pro SP600 obtained through MARS channels.

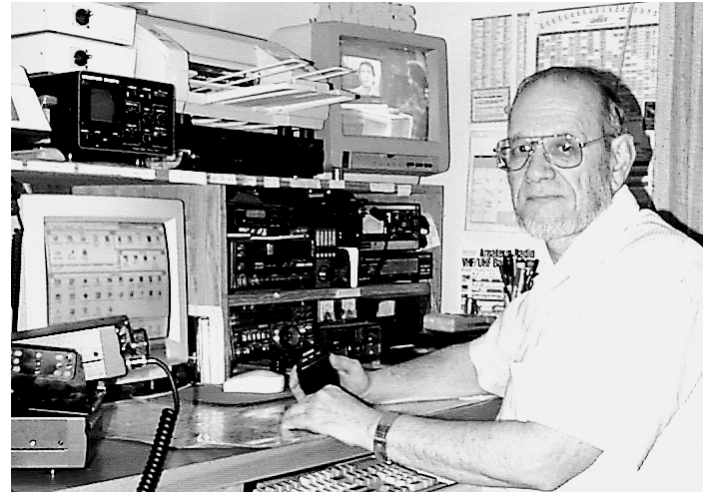
Most of his operating was on the Military Affiliated Radio Service frequencies operating both AM and RTTY. He operated on six meters with a Gonset rig and a 6-element wide spaced beam acquired from K3SBU. The acquisition of a Lafayette HA 460 transceiver brought Bob into the "state of the art" category. When I first met Bob he was running this HA-460 transceiver in a Pontiac with a "squalo" antenna on the roof. A "sqalo" is a half wave dipole bent into the shape of a square and mounted on a car roof with suction cups. Bob and I both drove Station road on our way home and talked on 6 meters often. At that time Bob had a ham shack set up in a bedroom and sporting a Central Electronics CE-20-A Single Sideband Exciter and a home brew sideband linear built out of 1625 tubes which ran about 100 watts. His Teletype equipment was a Western Electric Model 15. He later added a Model 19 and a reperforator. He had a tower with six meter and HF antennas on it.

Eventually Bob went first class with a Swan 400. Then he won a Ten Tec Delta at the Erie hamfest but didn't like it because of frequency drift. The next year Marlene won a Yaesu 757 as a door prize at the same hamfest and it is the rig Bob still uses as a HF station. He says the local hams wouldn't talk to him for a while after that!

Bob was not then and is not now a big fan of CW, preferring to take a dose of castor oil to being forced to operate CW. He conveniently misplaced his key a long time ago.

Sometime in the early 70's he put the first Pennsylvania Army MARS 2-meter repeater on the air from that Station Road location. Solid coverage extended to the hill just north of Hydetown.

Bob lost a lot of equipment to a major lightning strike while he still lived on Station road. The direct lightning hit vaporized a Ringo Ranger at the top of his tower, came into the shack where it fused equipment cabinets together and fried the Swan power supply, then entered the AC lines where it took out his audio system, garage door opener, and blew the main fuses. One of the glass fuses was blown out of it's socket with such force that it left an imprint in the electric pannel door as if it were die stamped..



The first thing Bob did after he retired was to get an advanced class license. Bob's present station is the dream of any Ham operator. He has an entire room to himself with two long tables , one on the east side of the room and one on the west. On these tables are three IBM computers networked together and one notebook computer. The computers are loaded with about every kind of software there is including Ham, Business, and graphic arts. There are four printers attached to his system-- a laser jet, an ink jet, a daisy wheel and a dot matrix. There is also a flat bed scanner and a digital camera. There is the Yaesu 757GX, a Yaesu 757AT automatic antenna tuner, and a Yaesu YO-310 tuning scope. There is a Kenwood TS 50 with Automatic tuner sitting there temporarily until it can be mounted in his pickup. There is a AEA PK232MBX which runs as a packet node and a mail box 24 hours a day. The RF is from an Alinco DR-1200. An Icom IC2340H dual bander rounds out the RF deck.

Even though Bob is retired, he still likes to do a little teaching. He has elmered WA3BLN, N3UBZ, N3XFQ, and N3WNP. He is willing to teach any Ham anything he knows about Ham Radio. This last fall he worked the Boy Scout Jamboree on the Air as an operator for W3YXE. It was a joy to my eyes to see a man who loves to work with children, and it was obvious that the boys enjoyed having Bob there.

Bob's hobbies are his Photography, gardening, woodworking, and computers as well as his radio. His Organizational memberships include: lifetime member of the ARRL, Army MARS, American Legion, Penna State Education Association, and 12 years in the Radio Amateurs of Corry where he has served as secretary, Vice President and News Letter Editor.

--Bob Swarm, K3CKO

MIR FIRE (Continued From Page 1)

the health of the crew and how best to respond to the damage," added Culbertson.

"The crew did a great job handling the fire, and the ground support has been excellent on both sides." In addition to Linenger, the Mir crew members include Mir 22 cosmonauts Valery Korzun and Alexander Kaleri, Mir 23 cosmonauts Vasily Tsibliev and Alexander Lazutkin, and German researcher Reinhold Ewald, representing the German space agency, DARA. Korzun, Kaleri and Ewald are scheduled to return to Earth on Sunday as previously planned to wrap up a six-month mission for Korzun and Kaleri and three weeks of scientific experiments for Ewald. Linenger will remain aboard Mir until mid-May with Tsibliev and Lazutki.

Officials are evaluating possible impacts to the mission and its science activities, as technical experts at the Russian Mission Control Center investigate the incident. The burned panel and other materials may be returned to Earth with Korzun, Kaleri and Ewald on Sunday for further analysis.

--Gary Sarver, N3WNP

(very abbreviated because of space limitations)

Please look at the coming events printed on page 4. We need help for many activities. The rosters on pages 2, 4, were printed on separate sheets so that you can post on your bulletin board. N3GCY's suggestion. Let us know if you like them that way or would you sooner they be printed like pages 5 and 6? Notice that one set is alphabetized by name, the other by call. I'm looking for photos of your OLD station. If they are reasonably clear, we'll print one or two each issue. Don't forget field day June 28 & 29. The VFW fund-raiser breakfast is a significant source of revenue. Can you help April 27? Thanks to those who submitted material this month. I had to cut one article due to space problems. 73's --Bob WA3HDK

**THE RADIO AMATEURS OF CORRY
P. O. BOX 362
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This newsletter is published quarterly

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Jim Adams, WT30
Gary Sarver, N3WNP
Patty Sarver, N3FXQ

Submit material for the next issue on/or
before June 23. Next issue is July 1

**Coming Attractions:
(see page 4)**

In This Issue:

You wanta' be a DXer:	page 1
Fire aboard MIR space stn	1
QSL guidelines	3
Roster by call sign	2 & 4
Roster by surname	5 & 6
Minutes of meetings	7 & 8
Ham personality (WA3HDK)	9

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EDITORIAL