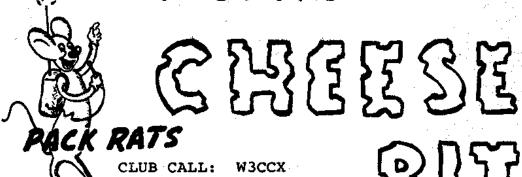
PACK RATE





MT. AIRY VHF RADIO CLUB, INC.

MT. AIRY VHF RADIO CLUB, INC., PHILADELPHIA, PA. 50.125, 144.50, 432.110, 1296.110 MHz, W3CCX - Repeater 222.98/224.58 MHz

Affiliated Club: AMERICAN RADIO RELAY LEAGUE

Third Thursday of each month at 8:00 P.M. Meetings:

Southampton Free Library, 947 E. Street Road

Southampton, Pennsylvania 19866

VOLUME XXV

JANUARY, 1983

NUMBER 1

ARNS

THE PREZ SEZ

We wish to thank John Tate, K3KTY for serving as our president for the past few months. For those of us who might not know, the demands of John's job required that he ask that is resignation as president be accepted. The Board of Directors at its regular meeting in December accepted John's resignation. Thank you, John, for all of your efforts and concerns for our club. We look forward to your continued contributions.

In assuming the duties as your president, I feel honored and proud to be the president of the greatest VHF Amateur Radio Club in the world. With your support, I am positive that our club will continue to grow and make new and exciting contributions to amateur radio, particularly VHF.

Our newly appointed vice president is Phil, WA3NUF. He has made many outstanding contributions to our club's effort. In his new role, I am confident that new talents will surface. Congratulations Phil!

In the true Pack-Rat tradition, our December meeting was a great success. Those of us who attended know that a great amount of business was taken care of. For those of us who did not attend, we missed out on a great opportunity! We must remember that the success of our organization is relative to the participation of its membership. Your participation in all of our club activities is needed and appreciated,

January's meeting is "Crying Towel Nite"; let's ger out to this meeting and tell all of those hard-luck stories or those unusual events leading up to and including contest weekend. Phil, WA3NUF who is our contest chairman and his captains have done an excellent job in getting things organized for the January VHF Sweepstakes.

As January 15th approaches, each of us should be individually committed to expending every effort to make this contest another successful Pack-Rat event. Let's plant the following contest crop:

> LETTUCE work the entire contest period TURNIP on all bands BEET Rochester again

SQUASH our own dirty signals.

Remember that we have a tradition to uphold - "The Pack-Rat Winning Tradition". We must make this the 23rd consecutive win! See you in the pile-ups! Bill, WA2DPU

Pack Rats CHEESE BITS is a publication of THE MT. AIRY VHF RADIO CLUB, INC. Philadelphia, Pa. and is published monthly.

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We operate on an exchange basis with other publications. Anything that is printed in CHEESE BITS may be reprinted, unless otherwise stated, provided that proper credit is given.

SWAP SHOP ITEMS - NO CHARGE

DEADLINE FOR ARTICLES IS THE GENERAL MEMBERSHIP MEETING: THE THIRD THURSDAY OF THE MONTH

EDITOR:

W3CL, HARRY B. STEIN 2087 Parkdale Avenue Glenside, Pa. 19038 215-887-5052

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W2EIF, JOSEPH KILGORE 609-783-9478

CLUB HISTORIAN:

W3CL, HARRY B. STEIN

MONDAY NIGHT NETS	NET CONTROL
7:30 PM - 50.125 MHZ	W3CL
8:00 PM - 144.150 MHZ	W2EIF
8:30 PM - 222.98/224.58	3 K3GAS
9:00 PM - 432.1 MHZ	K3IUV-WA2DPU
9:30 PM - 1296.025 MHZ	W3CXŲ
PACK RAT REPEATER 222.9	8/224.58 MHZ
LOCATED IN CHURCHVILLE,	PA.

OFFICERS: 1982-1983

PRESIDENT: K3KTY, JOHN TATE VICE-PRES: WA2DPU, BILL SMITH COR. SECY: W3ZD, DAVE ZIMMERMAN REC. SECY: W3NSI, LYN ROWLAND TREASURER: K3GAS, DOC CUTLER DIRECTORS: W3IIT, HARRY BROWN

WB2RVX, MIKE GALLO (2 yrs) WB2VLA, DAVE POWER (2 yrs) WA3JUF, DAVE MASCARO (1 yr) WA3NUF, PHIL MIGUELEZ (1 yr)

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CALENDAR OF COMING EVENTS Syllabus by Lee, K3MXM

	Byllabus by Lee, Komam
JANUARY	
1	HAPPY NEW YEAR - 1983 - May it be a Healthy, happy and prosperous one to all! Interesting info: While we count our year as 1983, many others count it as: Byzantine 7493
	All Race Horses are one year old today!!!
3	Alaska admitted as the 49th State
8-9	ARRL QSO Party, CW and phone.
9	First shot fired in the Civil War 1861.
13	Board of Directors Meeting - QTH W3IIT, Harry Brown, 3012 Potshop Road, Norristown, Pa. Phone: 584-4846. Directors and interested parties always welcome.
15	Martin Luther King, Jr Birthday
¹ 5-16	"CONTEST WEEKEND" Saturday 1800 UTC (1 PM EST) to Monday 0400 UTC (Sunday - 12 PM Midnite) All VHF Bands - all Modes - Very important Note: All Contacts and logs MUST be kept in UTC (GMT Time). No serial number required - report and section only. Good Luck to All and Have FUN!!!!
16	Richmond, VA. FROSTFEST - State Fair Grounds
15-16	For our Snowbird Friends - Sarasota Hamfest
20	General Club Meeting - "Crying Towel Session". Far and away one of the best and funniest of our club meetings for you the club members are the program. The spotlite is on you and how you beat or were beaten by Mr. Murphy and his laws. An open meeting to all area amateurs and their buddies.
22	Microcomputer Show - Holiday Inn, Newark Airport, N.J.
22-23	ARRL Midnight Special
24	First Display and use of THE CODE - 1838 - Samuel F. Morse.
24	Gold discovered in California 1848
30	FDR's Birthday 1882 - Remember the "March of Dimes"

* * *

VISITOR AT THE DECEMBER 16, 1982 MEETING

February meeting is $H_{\mbox{\scriptsize OMEBREW}}$ NITE get your projects in order.

W3BNQ - Sam, Blue Bell, Pa.

NEW PRODUCTS OF INTEREST TO HAMS By Lyn, W3NSI

- 1. THREE BAND VHF/UHF ANTENNA: The NCG Co. is now selling an antenna, for mobile or base use, covering 144-220-432 MHz. The DP-EL-770 with a nagnetic mount, a gutter mount, or for fixed use, with the coax and fittings to mount on your own mast. Gain is rated at 2.7 DB on 144-3.4 DB at 220 MHz, and 5.5 DB at 432 MHz. One feed line is used. Price \$47-\$50 depending on mount. 1275 N. Grove Street, Anaheim, Calif. 92806
- 2. ICOM 440 MHZ FM: The new Icom IC45A is the second half of the FM duo this company produces. It is the same size as the IC25A 2M rig and has the same front panel appearance. Like the 25A, the 45 can be set up to scan the five memory and 2 VFO frequencies. The scan feature can also be used to scan the entire 440-450 band or any given segment of the band. Power output is 10 watts high, 1 watt low power. Frequencies set-up in the memory will be retained as long as the unit is connected to the Automobile 12 VDC system. A back up battery is available for the memory to allow the rig to be moved between power sources. Size is 5 1/2" wide 7" deep and 2" high. Price \$399.
- 3. ICOM GENERAL COVERAGE RECEIVER: The new IC-R70 receiver covers the range 100 KHz to 30 MHz using synthesized tuning and digital readout of frequency. Among the features of the R70 are dual VFOs with three tuning rates, Squelch on SSB, adjustable notch filter, adjustable speed AGC, variable CW filter widths, adjustable noise blanker, and passband tuning as standard. There is an optional FM adaptor for use on 10 meters, also an optional interface to allow control of the IC 720A T/R unit by the R70 VFO. Price \$749.00.

* * *

UHF/VHF REPORT By Joe, W2EIF

The VHF/UHF bands have picked up a bit due to some tropo and aurora openings. There have been some openings to the West Coast and South American on six. Nov. 18 had a short opening to the W. Coast and S.A. Nov. 21 it was open to Carribean and West Coast. Nov. 20 produced an aurora in the evening with a 2 meter and 432 opening in the AM. South Carolina and Georgia were in Nov. 23-24 with aurora openings in the PM, but mostly 6 meters. Nov. 30 an "E" opening to Miss. and Ø land was observed in the evening. Dec. 2 produced an opening to Fla. and S. Car. on 2, 220 and 432. During some of those openings KIPXE worked WA4ZIA (NC) on 1296. I managed to work him on 220 and 432 but not 1296! Dec. 16 (meeting date) may produce a very good aurora caused by an X-12 strength flare on the Sun which occurred on Dec. 15. Note that an X-15 flare is the highest ever recorded, as of 1978 - W2AXU reports a Peruvian station heard on the AM on Dec. 16. on six meters.

Hope conditions are good for the Contest Jan. 15-16 and you all have a good score!

* * *

AMATEUR RADIO FELLOWSHIP MEETING

A film strip on Carl Sagan's Cosmos will be presented by the Greater Northeast Amateur Radio Fellowship on Monday, January 17, 1983, 7:00 P.M. at the Northeast Regional Library, Cottman Avenue opposite Gimbel's.

Programs for the radio amateur are held at the library on the third Monday of the month except on holidays.

Admission is free and there is ample free parking opposite the Library. For further information, call A1, W3AYJ on 725-2869.

The following Ammendments to the Constitution and By-Laws to be voted on at the January 20, 1983 meeting:

Article III (Constitution)
Membership (Section (4))

(4) Each membership application, in order to be eligible to be voted upon by the membership, shall have been approved by the Board of Directors, read to the membership at a regular meeting and the applicant's name, call and other pertinent data advertised in the club newspaper. The applicant shall be in attendance at the meeting unless excused by the Board of Directors for valid reasons such as physical handicap, when his application is brought to a vote of the membership. The vote shall be taken by written ballot or, at the unanimous discretion of the membership, an open vote. A unanimous vote of all members voting shall be necessary for the election to membership.

Article III (By-Laws)

This Article deals with reinstatement. Proposed deletion of Section (2) Which deals with tendering dues in advance, based on Monthly dues.

* * *

FROM ATLANTA WAY

Deat Harry:

First off- enclosed is the gavel!!! I'am awfully sorry for the delay, but - the damn ching got packed for the move and we just now found it!

The move itself went pretty well - we are in and hanging stuff on the wall - Gess tower and ham gear will come next.

Did operate in the Sept. contest w/WD4IIS group on top of 3,000' plus Mount Oglethorpe (WB4NMA, WD4IIS, WD4MBK, AA4GA, WB4AEG and ur correspondent). The rats wud love this location — easily accessible by car, AC 220 volt power available — no neighbors! We were on 6, 2, 220, 432 & 1296 — boy, is it different away from the "Golden Corridor". U really have to work for contacts!

However, when it was done, the raw score indicates we did beat the existing division record for multi-ops. The gents I operated with along W/W4VHH and N5BAR are a loose contest organization in this area, but nothing like the rats. It's going to be impossible to find any real VHF club, so gess I'm relegated to lonesome polecat status!

We are sure enjoying the WX here - still swimming in our pool which wud be unheard of in E.Pa.

Hope this finds U in particular still on the mend. Please pass along greetings to the troops and, as they say here in the GA Section, "Come See Us - Heah."

73, for now Jim, N3AHI

* * *

FROM CARL BARISH, BELLEVUE, WASHINGTON

I have a new call - KC7ZK. I've not been too active hamwise but tinker around ccasionally. Listened in several times during the Summer, but heard little from "2/3" land. A six meter opening here is usually to Mid-West or Japan. Lot's and lots of Japanese hams!

TID BITS

Sun watcher, W2AXU, Jack Power, reports the Sunspot No. for November 1982 = 98.5. Smoothed No. for May 1982 = 119.4.

Congratulations to Earl Garber, N3EG on his recent marriage to Brenda. He has also acquired three harmonics; Dona, Diana, and Denise. This all happened out there in Glendale, California.

Apologies to Randy, WB2SZK from the West Coast; we forgot to mention that he attended the November Board of Directors meeting on November 11, 1982 while on business here on the East Coast.

WB9PUJ, Dick Bokern made the December meeting. He begs us to point our beams out to Indiana and look for him at Sunrise on Sunday during the VHF SS Contest.

Thanks to Bruce, WA3YUE for preparing the 1983 club membership directory.

John, K3KTY out there in Sinking Spring appreciates the antenna help from N3BBI,
W3IIT and WØRSJ.

* * *

Dec. 12, 1982

Mr.Harry B. Stein Editor, Cheese Bits 2087 Parkdale Avenue Glenside, Pa. 19038

Dear Harry:

A quick line to say a hearty thanks for sending me copies of Cheese Bits during the past several months. I have enjoyed reading them and being able in this way to keep up with all of the sundry activities of the Pack Rats. It is certainly a lively group, and you have established quite a national reputation as achievers in VHF contesting activities, not to mention that famous moonbounce DXpedition to South America.

Please pass along to the members of the Mt. Airy VHF Radio Club my best wishes for a Happy Holiday Season and success in all your undertakings in the New Year!

73, Vic Clark, W4KFC

* * *

JOTTINGS

Rumor is one thing that gets thicker as you spread it.

Mincing your words makes it easier if you have to eat them later.

Talk is cheap because the supply is always greater than the demand.

Progress always involves a risk for you can't steal second base and keep your foot on first.

Suffering is one of the few experiences in life that doesn't wear a mask. Praise is like champagne - it should be served while it is still bubbling. Money talks - it says goodbye.

A man knows he has reached old age when all the phone numbers in his book are doctors.

LAST MINUTE VHF NEWS

W2AXU reports that 6 meters was open to Peru, S.A. on December 20, 1983. WB3JYO reports the band opened to the West Coast the morning of December 24, 1983.

SWAP SHOP

FOR SALE: Collins KWW-2 transceiver, winged emblem, with 516F2 power supply, additional crystals and spare tubes. \$495

75S-3 receiver with Heath noise blanker installed. AM, SSB and CW. 250Hz filter for CW, 2.1 kHz filter for SSB. Notch filter and variable BFO. \$215

62S-I VHF Transverter for 6 and 2 meters. 60 watts PEP SSB output. \$495.

All equipments in excellent working and physical condition. Will negotiate prices.

CONTACT: Jack Power, W2AXU Phone: 609-882-8811

FOR SALE: Gonset VFO- 6&2 mtrs. \$25.

TRADE: 16 ft. steel crank-up 3 legged tower

to 30 ft. depending on mast used.

WANTED: 6 or 2 mtr antenna tuner. Key paddle.

CONTACT: WA3MXX

Phone: 215-332-9114

FOR SALE: KLM 40W. 432 MHz solid state

amplifier \$90.

CONTACT: Dan, N2ASC

Phone: 609-386-1540

FOR SALE: Parts, speakers, records, tapes, trk and cassettes. Mohawk receiver w/2 meter & 6 meter converters and speaker \$100.00; Collins 75A3 Receiver \$250. Reel to reel tape recorders, audio cables; Heath model 10 - 4560 5" scope & manual \$120; Dumont Fairchild portable freq. standard (5-500 MHz) \$20; Heath micoder II microphone & manual \$25; I have a load of stuff to dispose of for K3IGX, moving to Arizona. Call 635-1078 for appt. to see this stuff. Prices are less than reasonable!

CONTACT: K3GAS, Doc Cutler

Phone: 215-635-1078

FOR SALE: Kenwood TV-502 - 2 mtr. transverter \$150; tube type 6 mtr. amp. 10 W. in - 90W. out \$125; Remote VFO w/memory for Kenwood TS830 (Brand new) \$250; remote speaker SP 230 for TS 830 \$40.

CONTACT: Bill, WA2DPU

Phone: 609-386-2348

FOR SALE: Drake TR4CW, 10-80 mtr,

SSB, CW, AM transceiver 300 watts w/

AC4 power supply & MS4 speaker &
includes Shure 444 microphone. \$400.

Hygain TH2MK3 2 element 10, 15, 20
meter tri bander. Brand new in box

\$90. or best offer.

Panasonic AM-FM-SW portable (AC-DC) with BFO. Tech series Model #. \$60 excellent shape.

Sony FM-AM mult1 band receiver ICF - 5900W. \$125. new, full factory warranty.

Sharp EL-1108 desk calculator, green florescent readout. \$25.

CONTACT: K3UKW, Tony Musero Phone: 215-271-8898

NEW HAMTRONICS CATALOG

Hamtronics, Inc. announces publication of their new 1983 catalog crammed full of goodies for the VHF/UHF/OSCAR enthusiast and two-way shops.

The 36 page two-color catalog features many new products, including FM Repeaters, new VHF and UHF FM Receivers, Helical Resonator Preamps and Filters, Low Noise Receiver Preamps, and a uhf receiver to listen to the Space Shuttle. Also included are the popular FM Transmitters and Power Amplifiers, VHF and UHF Receiving and Transmitting Converters, VHF Transceivers, and other products Hamtronics has long been noted for.

For your free copy of this attractive new catalog, call 716-392-9430 or write to Hamtronics, Inc., 65F Moul Rd, Hilton, N.Y. 14468 (For overseas mailing, please send \$2.00 or 4 IRC's.)

1982 CENTRAL STATES VHF SOCIETY CONFERENCE BATON ROUGE, LA.

PREAMP/CONVERTER NOISE FIGURE MEASURING CONTEST

				O142140 O014	1201	
50Mhz				902 MHZ		
WA5VJB	3SK97	0.59	dЪ	KCØW	MGF1402	
WB5CHW	3N2O4	1.25		WB5GHW	MGF1402 MGF1400	0.82 db
				WA5VJB	MRF902	2.50
144 MHZ				ULV CAN	MRF902	2.56
VE3CRU	MGF1200	0.12		1296 MHZ		
K7KDT	D432	0.18		WBØTEM	MGF1402	0.60
W5UN	MGF1200	0.27		K9KFR	MGF1402 MGF1400	0.68
WA5VJB	MFG1200	0.42		WD4MBK	NE72089	0.99
KB9NM	MGF1402	0.42		SB5GHW	MGF1400	1.12
KB9NM	MGF1200	0.48		W6PO	DXL3501	1.20
WB5GHW	BF981	0.73	•	W1UHE	MGF1402	1.47
WA5IED	Janel 3N204	2,99		WA5VJB	MRF902	1.71
				WA5VJB	MRF901	2,47
220 MHZ				WA5VJB	MRF904	2.90
SB6NMT	0432	0.21		W21.5 V G 15	FIRE 904	4.90
K9LQZ	MGF1200	0.38		2304 MHZ		
WBØTEM	MGF1402 #1	0.39		K9KFR	NE24483	0.00
WBØTEM	MGF1402 #2	0.45		WASVJB	NE64535 #1	0.90
K9KFR	MGF1200	0.47		WA5VJB	NE64535 #2	2.50
K5AZU	MGF1402	0.49		WA5VJB		3.00
K7KOT	D432	0.51		MAJ 401	NE64535 Converter	6.45
WA5VJB	35K97	1,21		WA5VJB		ib Gain
K9XY	35K48	1.42			NEO21 Converter	8.50
KCØW	MMT220 (VE3CRU)	2.45	30.8 db gair	•	16.5	ib Gai⊾
	Conv.	_ , , ,	JONG GD BOTT	•		
W9UD	MMT220 "	2.64	30,3			
WA5YOU	MMT220 "	3.25	28,9			
₩ ø VВ	Janel Tanel	4.05	38.6			
				·		
432 MHZ						
WBØTEM	MGF1402	0.40				
WD4MGK	MGF1402	0.58				
WA5HNK	MGF466	0.98				:
W5UKQ	PAG432 Lunar	1.12				
KR5F	DXL3501	1.16				
KL7WE	PAG432 Lunar	1 , 20				
WA5HNK	HE64535	1.49				
KR5F	DXL3501	1.96				
WA5VJB	NE64535	2.01				
WA5VJB	MRF901	2.20				
WØOHU	Janel	2-22				
KCØW	Janel	2.40				

(Continued on Page 9)

4.13

K9XY

CT3225

1982 CENTRAL STATES VHF SOCIETY CONFERENCE CONTINUED

Antenna Gain Measuring Contest

144 MHZ		
KR5F	13.5 db	wB5J WL "PTG" 11 el Quad (18' long)
KR5F	13.2	wB5JWL "PTG" 9 el Quad (13' long)
KR5F	12.5	wB5J WL 9 el Wide-spaced Quad (16' long)
W5UN	12.5	26' long Quagi (B/B)
KR5F	11.7	WB51 WL 6 of Wide appeal One 3 (201 d
WA5HNK	6.0	wB5J WL 6 el Wide-spaced Quad (10' long) 4 el Tonna yagi
W5RCI	5.0	B/B yagi
		D/D yagi
220 MHZ		
wD4MBK	12.7	8 el yagi
K9XY	11.7	8 el Quagi
		o er Quagi
432 MHZ		
K5GW	14.5	2/ o1 Cushamata
WD4MBK	13.9	24 el Cushcraft yagi
WD4MBK	13.9	h/b 19 el RIW yagi h/b 19 el RIW yagi
WD4MBK	13.5	19 el RIW yagi
w3XO	12.0	
K5GW	11.5	16 el yagi (G310R version)
N5BAR	8.7	10 el Cushcraft yagi
	0.7	
1296 MHZ		The second secon
W5UPR	17,2	Tona yagi
WA5TKU	16.0	Loop yagi
KF5N	15.5	Loop yagi
W5DC	14.5	yagi
K4KJP	12.5	J ⊂ 8 ±
W40DW	10.0	4 x yagis
W40DW	4.5	- A yagis
W5UKQ	-1.5	2 db coffee on the state of
		2 db. coffee can dish feed for .33 F/8 dish
2304 MHZ		
WA5VJB	19.5	41 el Loop yagi
WB5LUA	8.0	1 LB. coffee can dish feed
WB5LUA	0.0	Reference dipole
,	~ • •	vererence arbote

(THANKS JACK POWER, W2AXU)

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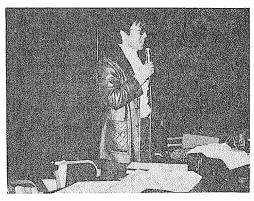
PACK-RATS RECEIVE A BEAUTIFUL CHRISTMAS CARD FROM JAPAN

The following greeting was enclosed:

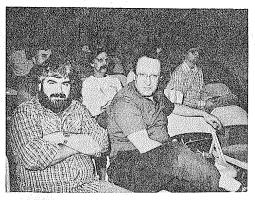
Very thanks for joining your monthly meeting on Nov. 18

I hope your Mt. Airy Club be the most active in the world

HAT JA1VOK



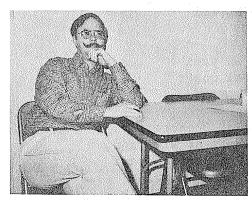
HATSUO YOSHIDA, JALVOK, TALKS ABOUT DX



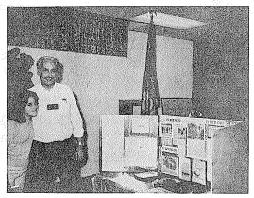
WA3JUF, W3IIT, K2EVW LISTEN INTENTLY



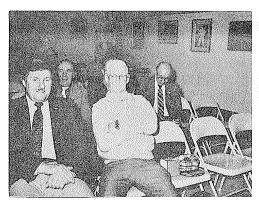
AL, W3AYJ INTRODUCES THE ROY NEAL TAPE



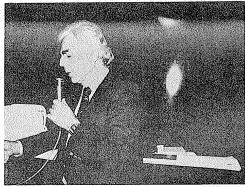
WB2VLA, DAVE OUR PRINTER AND REFRESHMENT CHAIRMAN



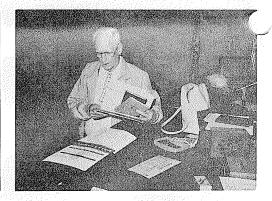
EL, K3JJZ ASSISTED BY HARMONIC HOLLI AGAIN PRESENTS THE PACK-RAT EME DXPEDITION TO COLOMBIA SOUTH AMERICA



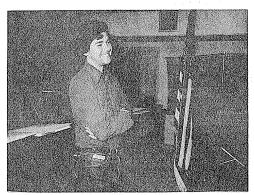
PACK-RAT WB9PUJ (on the left) JOURNEYS FROM INDIANNA TO VISIT WITH US AT THE DECEMBER 16TH MEETING



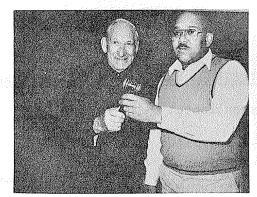
K3IUV, BERT OUR PARLIMENTARIAN EXPLAINS THE PROPOSED AMMENDMENTS



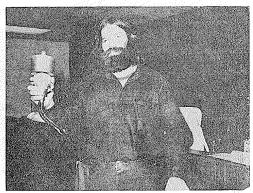
JO, W2EIF DISCUSSES CONTEST PAPERWORK



1983 VHF SS CHAIRMAN PHIL, WA3NUF



W36L PRESENTS THE 1982 VHF SS GAVEL TO BILL, WA2DPU OUR NEW PREZ AND THE 1982 CONTEST CHAIRMAN



BILL, W3HQT TELLS HOW IT IS DONE

fotos by K3GAS

WB7TCF

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