



THE EASTERN IOWA DXER

AUTUMN 1988

CLUB NEWS LETTER OF THE EASTERN IOWA DX ASSOCIATION

CLUB OFFICERS

President: KJØH John Schwandke

V. President: WØWP Tom Lindgren

Sec/Treasurer: NØØH Jack Muckler

Awards & Contest Chairman: NUØP

Newsletter assistant: W4NIM Bob Hill

The Eastern Iowa DX Association's Fall meeting will be held Friday the 21st of October at 7:30 PM in the REC Building Marion, Iowa. KJØH includes the Agenda planned for the meeting on another page of this Newsletter. Don't forget to bring a check for ordering EIDX jackets and money for dues. CU there!

Treasurer's Report

General Fund

Balance Forward \$459.92

Income

4-30-88 Dividend \$2.57

5-31-88 " 2.72

6-30-88 " 2.57

WØSML QST re-up 2.00

KØVZR dues 5.00

KØVZR QST (3 yr) 65.00

sub total 79.86 \$539.78

Expenses

K1MEM for SØRASD

video \$20.00

Newsletter

postage \$12.50

to ARRL for

KØVZR \$65.00

sub total \$97.50 \$-97.50

Current Bal \$442.28

Repeater fund (no change)

Current Bal \$161.00

Contests 1988

The CQWW and ARRL DX contest results, finally making their respective magazines, confirm a fine effort by the EIDX both in individual achievements and total aggregate score, especially the ARRL DX contest.

CQ WORLD WIDE 1987

EIDX 3,937,751 pts in 26th place in the USA club standings.

EIDX SSB SCORES

call	cat.	pts	qsos	zones	ctys
KFØH (+K2ØC)					
	mult.	758,016	710	115	269
WØEJ (+NUØP+NCØØ+WØØØMU+WØWP)					
	mult.	640,500	609	107	243
WØPPF A		76,867	207	49	90
KFØZ A		6,272	48	26	30

EIDX CW SCORES

WØWP A	1,268,630	1072	132	286
KJØH A	656,978	709	111	223
WØEJ A	336,441	450	97	162
KEØY A	74,568	173	66	90
NØGØØ A	57,226	157	52	90
KFØZ A	35,970	125	39	71
KØØT A	12,012	50	32	46

EIDXА Minutes August 13, 1988

President John called the meeting to order at 2:05 PM. The meeting was held concurrently with the Cedar Valley Amateur Radio Club's annual hamfest and was open to the public.

There were 18 members in good standing present along with 8 guests. Members present were as follows: NX0W (Dan), NU0P (Steve), W0MJN (Joe), N0H NJ (Dave), NN0L (Ron), KF0H (Jim), KZ0C (Jim), W0IZ (Dale), W0PPF (George), K0VZR (Tom), NC0O (Tom), K0GT (Gary), WB8ZRL (Tom), K0GVB (Gary), K0VM (Al), W0WP (Tom), NB0H (Jack), and KJ0H (John).

After a word of welcome, John explained the prerequisites for membership in the EIDXА for the benefit of the guests.

KZ0C moved that the minutes of the April meeting, as published in the previous Newsletter, be approved. Motion seconded and carried.

W0IZ moved that the Treasurer's report, as printed in the Newsletter, be approved. Motion seconded and carried.

Petitions for membership were approved as follows---

W0BX--Lee L. McKee first licensed in 1926 as 9CZQ. Lee is a holder of an Extra Class license and is primarily interested in CW DX. He has confirmed 284 countries and is a holder of the DXCC award. Lee's station consists of a TS930 and Henry II Classic.

WB0B--Larry J. Newby is a holder of an Extra Class license and enjoys working the Sweepstakes contests. His latest effort was the 1987 Sweepstakes using a QRP rig. Larry has worked 34 countries 27 of which confirmed.

Please note: These members were voted upon in absentia which apparently has not been the prior practice.

NC0O, Tom, reported that the net is still going strong on Sunday evenings at 9:30 PM. The duties of handling the net this summer have been shared by WE0M and NC0O with very good response by the members.

President John passed around a sample of the jacket being proposed for the club. The EIDXА logo will be approximately 12 inches in diameter and will be placed on the back of the jacket. The quality of the the material and the workmanship appeared to be excellent. In quantities of 30, the price is estimated to be \$45. At the October meeting the color and style etc are to be determined. Please come prepared to make your decision and place your order.

NU0P reported that contest awards will be presented after the official results are published in "CQ" and "QST".

President John again reminded everyone to bring something for the brag table at the October meeting.

There was a motion to adjourn by W0MJN, seconded by KZ0C. Motion carried and meeting closed at 2:37 PM.

NB0H Secretary/Treasurer

AGENDA
E.I.D.X.A. OCTOBER 1988 MEETING

1. **APPROVAL OF AUGUST MINUTES**
2. **SECRETARY/TREASURERS REPORT - Jack**
3. **PRESIDENT'S REPORT**
 - A. Introduction of Guests & New Members
 - B. New Member Certificates, New Applications ?
 - C. **CLUB JACKETS**
4. **145.19 REPEATER ACTIVITY:**
 - A. Net Report - NCØO & NØGQB
 - B. Comments
5. **CONTEST/AWARDS CHAIRMAN REPORT: NUØP, Steve**
6. **OLD BUSINESS:**
 - A. QSL Card Orders
 - B. E.I.D.X.A. Video?
 - C. Club Jackets
7. **NEW BUSINESS:**
 - A. Section Mgrs. Report - WØEJ, Wade
 - B. D.X.A.C. Report - WØSR, Jim
 - C. Election of Officers - 1989 Year
President, V.P., Sec./Trea.
8. **ADJOURNMENT**
9. **5 Minute Social, Followed by introduction of E.I.D.X.A. Slide Program that is now being produced; plus a brief DXpedition program provided by the Northern California DX Foundation.**

YOUR E.I.D.X.A. SLIDE COMMITTEE MEMBERS ARE: KJØH, WØWP, NCØO, KØRW & KØVZR. IF YOU NEED 35mm SLIDE PHOTOS TAKEN OF YOUR STATION AND ARE NOT ABLE TO DO SO YOURSELF...CONTACT ONE OF THESE MEMBERS.

EIDXA membership list (JUNE 1988)

Call	Status	pd	name
KU0A	FULL	Y	Nelson Moyer 28 Ealing Dr. Iowa City, Ia 52240 319-351-8775 home, 319-353-5990 wrk
K0AL	FULL	Y	Al Culbert 618 First Ave. Charles City, Ia 50616 515-228-1443 home, 515-257-2245 wrk
WD0AWL	FULL	Y	Terry Cellman 511 Park Ainsworth, Ia 52201 319-657-3681 home, 319-648-2891 wrk
W00B	ASS.	Y	Larry J. Newby P.O. Box 185 West Burlington, Ia 52655 319-752-8700 home, 319-754-4692 wrk
W00X	FULL	Y	Lee L. McKee 1820 Briarwood Lane Muscatine, Ia 52761 319-263-0390
KZ0C	FULL	Y	Jim Bohnsack 1169 Rainbow Dr. Waterloo, Ia 50701 319-233-7189 home
W00EJ	FULL	Y	Wade Walstrom 7431 Macon Drive NE Cedar Rapids, Ia 52401 319-393-8982 home, 319-395-xxxx wrk, 124-311 ns
W00M	ASS.	Y	Tom Gordon 6904 Brentwood Dr. NE Cedar Rapids, Ia 52402 319-373-0757 home, 319-398-7657 wrk
K00T	FULL	Y	Gary Toomsen 2730 Tower Dr. Cedar Rapids, Ia 52401 319-395-9329 home, 137-122ns
K00VB	FULL	Y	Gary Ernst RR 2 West Branch, Ia 52358 319-643-2287
KF0H	FULL	Y	Jim Harvey 819 N. Main St. Goldfield, Ia 50542 515-825-3323
KJ0H	FULL	Y	John Schwandke 1108 E. Main Washington, Ia 52353 319-653-3606
NB0H	FULL	Y	Jack Muckler 2004 Eastern Blvd. SE Cedar Rapids, Ia 52403 319-362-3462 home
N00HJ	ASS.	Y	David Corio 38 Leisure Blvd. NE Cedar Rapids, Ia 52402 319-395-7973 home, 319-395-0462 wrk
K00IR	FULL	Y	Clark Pantel 1610 Hershey Ave. Muscatine, Ia 52761 319-263-9150 home, 319-263-6141 wrk
K00INR	FULL	Y	Tom Taylor RR 1 Shell Rock, Ia 50670 319-885-4400 home, 319-236-1500 wrk
W00IZ	FULL	Y	Dale Repp 1610 Texas Ave. NE Cedar Rapids, Ia 52402 319-393-6724
K00JGH	FULL	Y	Glen Kesselring RR #7 Box 160 Ottumwa, Ia 52501 515-934-5320
NN0L	FULL	Y	Ron Borkgren 1106 East 2nd St. Anamosa, Ia 52205 319-462-4113 home
AB0M	FULL	Y	Vern Lang 110 E. 2nd St. Muscatine, Ia 52761 319-263-2697
W00MJN	FULL	Y	Joe Finkstein 2210 Empire St. Marion, Ia. 52302 319-377-6573 home, 319-395-2294 107-150 ns
NK0N	FULL	Y	Orville Duecker 226 Southcrest Waterloo, Ia 50702 319-296-2390 home, 319-233-3569 wrk
W00NB	FULL	Y	Jim Livengood R.R. 1, Ferre's Lane Burlington, Ia 52601 319-752-9310 home, 319-752-2701 wrk
W4NIM	FULL	Y	Bob Hill 2510 White Eagle Trail SE Cedar Rapids, Ia 52403 319-366-3975
NC0D	FULL	Y	Tom Hise PO Box 104 Shellsburg, Ia 52332 319-436-7706 home, 319-395-XXXX wrk 153-264 ns
NU0P	FULL	Y	Steve White 5820 Sanden Rd. NE Cedar Rapids, Ia 52401 319-377-1892 home, 319-395-XXXX wrk, 124-313 ns
W00PLS	ASS.	Y	Fred Young 5806 Timber Creek Rd. Cedar Rapids, Ia 52401 319-393-0429 137-124 ns
W00PPF	FULL	Y	George Carsner 411 Terrace Rd. Iowa City, Ia 52240 319-338-1601 home, 319-354-9200 wrk
KC0Q	FULL	Y	Jeff Russell 2125 Linmar Dr. NE Cedar Rapids, Ia 52402 319-363-4139 home, 319-395-4664 wrk, 124-211 ns
KK0R	FULL	Y	Bob Tillman 1257 Deloris Dr. Waterloo, Ia 50701 319-232-8223 home, 319-291-7413 wrk
N4RR	FULL	Y	Roger Hoffman 17215 Timber Drive Sterling, Ill 61081 815-625-6647
K00RW	FULL	Y	John Lenahan 923 N. 9th St. Burlington, Ia 52601 515-753-6883 home, 515-683-5203 wrk
N00SM	FULL	Y	Steve Miller Route 6 Box 180 Ottumwa, Ia 52501 515-684-4753
W00SNL	FULL	Y	Doug Byal 4601 Northwood Dr. NE Cedar Rapids, Ia 52402 319-393-2974
W00SR	FULL	Y	Jim Spencer 3712 Tanager Dr. NE Cedar Rapids, Ia 52402 319-393-7353 home, 319-395-2305 wrk 124-115 ns
KB0SY	FULL	Y	Rick Cordle 515 20th St. SE Mason City, Iowa 50401 515-424-8493 home
W00UZ	FULL	Y	John Nelson 3109 Terry Dr. SE Cedar Rapids, Ia 52403 319-365-4432 home, 319-395-2742 wrk 153-160 ns
NY0V	FULL	Y	Tom Vinson 10211 Hall Road NE Cedar Rapids, Ia 52401 319-393-8087 home, 319-395-xxxx 120-105 ns
K00VM	ASS.	Y	Al Groff 1446 Council St. NE Cedar Rapids, Ia 52402 319-393-8134 home, 319-395-4666 wrk, 124-211 ns
W00VX	FULL	Y	Dave Jakska 626 Torrey Pines Ln Garaland, Tex 75044
K00VZR	FULL	Y	Tom White RR02 Jesup, Ia 50640 319-827-6730 home, 319-334-7166 wrk
NG0W	FULL	Y	Keith Erickson 1010 Hillside Dr. NW Cedar Rapids, Ia 52405 319-396-8510 home, 319-398-3551 wrk
NX0W	ASS.	Y	Dan Veerhusen 1601 48th St. NE Cedar Rapids, Ia 52402 319-393-6726 home 319-395-4874 wrk
W00WP	FULL	Y	Tom Lindgren 1260 13th Ave. Marion, Iowa 52302 319-377-4279 home, 319-395-1953 wrk 107-110 ns
KE0Y	FULL	Y	Tom Kramer 905 LeRoy Muscatine, Ia 52761 319-264-3259
AG0Z	FULL	Y	Bill Delaney 2818 Garden Ave. Cedar Falls, Ia 50613 319-277-5150 home, 319-236-8856 wrk
KF0Z	FULL	Y	Jan Clute 320 College Blvd. Mount Vernon, Ia 52314 319-895-6435 home, 319-927-2143 wrk
W00ZRL	FULL	Y	Tom Vavra 682 Palisades Access Rd. Ely, Ia 52227 319-848-4330 home

THE PREZ SAYS!

I've been out shopping for a new DXpedition T-Shirt! No.... I'm not getting ready to go on one.... I've been on one! Or, at least it seems like it to me. Perhaps it will become my New Hobby? Changing QTH's often! Now I know what Eric, SMØAGD, felt like on his Pacific Island-Hopping expedition (sans the topless native girls, unfortunately). In July, I relocated to Ainsworth, just under the tower of Terry Cellman, WDØAWL. But, that's not unusual, because anywhere in Ainsworth is under Terry's 100 foot tower. From this location I burned large holes in the radio spectrum with my thundering 100 watts, to a dipole at 40 feet. This was quite a change from the Contest Station I had been building in Muscatine for the past ten years. But, WØIZ is my inspiration. If he can "work em" QRP, so can I. And I did! Even managed to pick up an all time new country counter, (#297) in T5GG, on 20 meter CW one night... in the middle of a pile-up, no less! After a lot of QRP practice I found the contacts were coming too easily. I never thought it would happen... but alas.... too much DX! Too easy!! Don't even need the Kilo-watt and Beams!!! Time to hop to my "next island", I thought. So, during the first weekend of October I relocate my QTH to Washington, Iowa.

I'm going to really have some fun at this QTH! It's got a nice small yard.... no towers allowed.... strategically surrounded by lots of neighbors with ancient television antennas on their roofs, (should provide excellent rectification characteristics). I have now graduated to QRPP (in my book). FORCING MY ENTIRE 100watts of "screaming power" into a ground mounted Butternut Vertical!

I like to gaze up on the wall and look at my past Contest Award Certificates while I repeatedly send CQ's waiting for a response. I did get response once (after CQ'ing for 35 minutes). But, I don't think it counts as a valid two-way QSO. I was transmitting on the Drake Twins... but the responding neighbor was on landline, so it probably doesn't count. I couldn't get a QSL out of him anyway (and I even included an S.A.S.E. with greenstamp).

In truth... it really isn't that bad. In fact, it really is humbling, and fun, to operate this way for awhile. Actually, my first QSO from Washington was a YB2 on 20 CW, and the rig wasn't even grounded yet! Those were followed by a couple of ZL's and a UAØ. My new operating conditions have caused my Ham friends to change my "handle" on 2 meters though. Because of my callsign prefix of "KJ", I had often been referred to as "Kilowatt John". Heck... some of my buddies even accused me of having my main "ham gear" on-off switch wired directly to the Amplifier Switch. What nonsense! It was a totally separate switch... and at least 2 or 3 inches away from the amplifier switch! Anyway, now I'm just known by my callsign suffix. KJØH ... "Humble"! But, just wait until the 16Ø meter contest and "Kilowatt John" may return for a brief 48 hour period. Many of you have asked, when I decided to return to my career in Broadcast Radio, "why did you take a job in Washington, Iowa? Let me tell you about KCII Radio. It is both an AM and a Fm facility. But, the AM Side is a sunrise to sunset only station. After sunset, that BIG...BEAUTIFUL... 255 FOOT TOWER just sits there, doing nothing more than support its flashing red lights, and maintain a steady weight on its extensive, 250 foot radius, copper-grid grounding system. Get the idea?

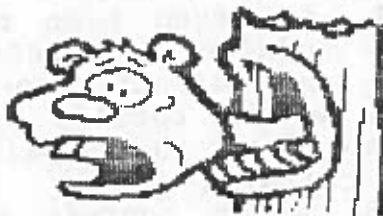
You E.I.D.X.A. boys continue to provide the group recognition in the contests again this year. Check page 91 of the October issue of QST, for results of the 1988 ARRL Intr. DX Contest. The Eastern Iowa DX Assoc. beat out the Kansas City DX Club! We had a nice showing, spearheaded by NØSM and WØWP. In the phone portion, Tom WØWP, took 1st place Iowa. And on CW, Steve NØSM, collared 1st place Iowa, and 1st place for the entire midwest division. And, how about my "QRP Hero", WØIZ Dale... Division Leader in the "true QRP" category... and placing #5 Nationally! If he keeps this up, I'll want to change QTH's again so I can make the contacts even tougher!

Looking forward to seeing you all at the fall meeting, October 21st, at the Marion R.E.C. Building. We will be selecting new officers for 1989, and a final decision will be made regarding the Club Jackets we've been discussing all year long. We'll even manage to squeeze in a brief program and provide a "sneak peek" of the E.I.D.X.A. Slide presentation currently being compiled.

See ya there!

de KJØH, "Humble John"

**CLIMB OUT OF YOUR
HOLE AND RUN FOR AN
OFFICE IN THE EIDXAS!**



ARRL DX RESULTS

EIDX 3,145,068 pts with 30 entries and 13th place in the medium category. Club diploma winners: CW N0SM and SSB W0WP

Club members making the "blocks":

W/VE QRP CW TOP TEN: W0IZ 5th in the country!

Division Leaders: Overall CW Midwest Division N0SM, Low-Power CW <150 Watts W00M, and QRP Division Leader CW W0IZ

Iowa CW SCORES

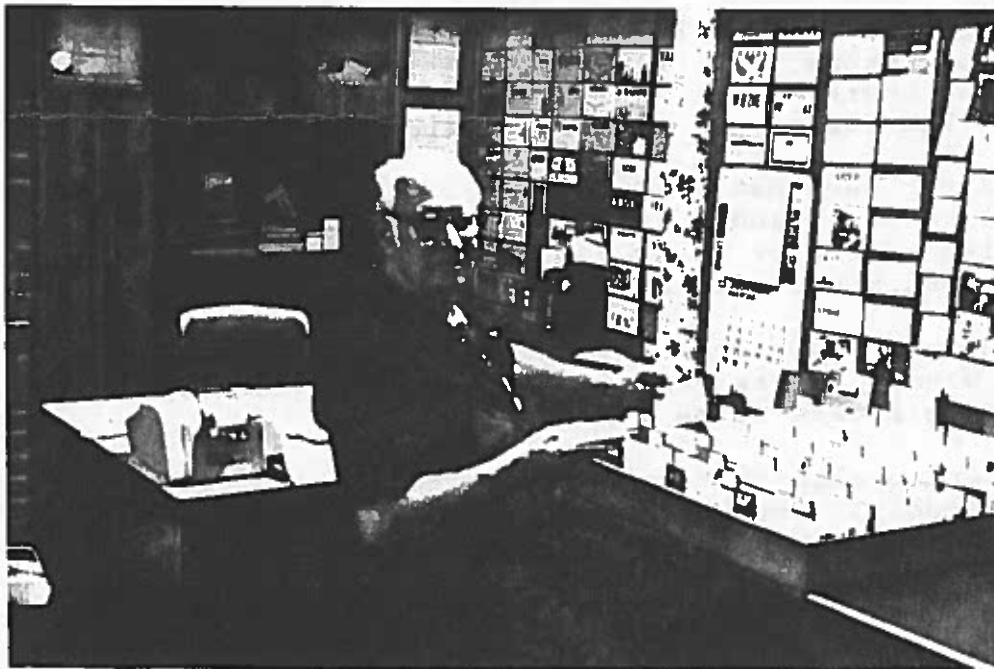
call	pts	qsos	mult	class
N0SM	420,552	792	177	C high pwr
KE0Y	121,806	303	134	C
W0BZRL	72,834	199	122	C
NU0P	70,992	232	102	C
W0IZ	64,575	205	105	A qrp
W00M	47,268	202	78	B <150 watt
W0ANIM	35,235	145	81	B
KZ0C	24,400	113	72	B
K0GT	24,396	107	76	C

NC00	24,354	123	66	C
N60W	22,605	137	55	B
W0MJN	10,152	72	47	B
W0WP	202,236	887	76	C 20M
KJ0H	42,400	236	60	C 15M
KC00	27,060	164	55	B 15M

IOWA SSB

W0ANIM (W0BZRL, K0VM, OPS) 1ST PLACE @ LAND
406,458 579 234 C

W0WP	301,708	606	166	C
KZ0C	244,755	441	105	C
K0GT	240,492	409	196	C
NC00	153,153	357	143	C
N60W	114,660	260	147	C
N0SM	106,929	327	109	C
W0PPF	87,120	240	121	C
NK0N	58,176	192	101	C
KC00	54,450	165	110	B
W0MJN	39,700	156	85	C
NU0P	25,410	121	70	C
W00M	13,860	84	55	B
K00SY	1,764	28	21	A 80M
W00ZK6	5,307	61	29	B 10M



Charlie Rodgers, W0QQN, sorting the many DX QSLs received daily at the W0 QSL bureau. Charlie and Alma graciously showed us the inner workings of the bureau on our recent pass through the Omaha area. I was very very impressed with their cleverness in organizing the smooth running bureau!

BOULDER AMATEURS ASSAULTED FROM ALL SIDES HAVE UPHILL FIGHT AGAINST
ANTENNA RESTRICTIONS
AUGUST 1988

Friday, July 29th was a dark day for amateur radio. In one of the most important cases in amateur radio history, two local operators seeking exception to the Boulder County 35 foot height restriction were handed a devastating negative decision by Federal Court Judge Zita Weinshienk.

David Evans, NQ0I, and Tim Holzhiemer, N6DIY, who had originally applied for 125 foot towers on their one acre parcels in rural residential Boulder County have now been denied the right to erect anything taller than 35 feet. After months of hearings before the Board of Adjustment, Planning commission, County Commissioners and finally the Federal Court, the result, is a 35 foot limit except in extraordinary circumstances. County officials have not offered, in fact have refused to negotiate, on a height for a fixed tower between 35 feet and the 125 feet originally requested.

Finding in favor of the County, Judge Weinshienk made a very narrow ruling:

1. It was reasonable for the county to deny 125 feet.
2. Because another amateur had obtained a variance, the 35 foot ordinance was reasonable. (see below)

The judge said that in her opinion PRB-1 did not apply to individual amateur operators, but only to the Amateur Radio Service in general. She determined there is not absolute prohibition of amateur radio in Boulder County. The County was not precluding amateur radio.

She said further that the County's 35 foot limit could be varied in appropriate cases and that provisions in the County's proposed ordinance for taller towers or other supporting structures satisfied her that the proposed ordinance was in compliance with PRB-1.

In making her decision, she considered Boulder's unusual panoramic view, unusual winds, safety factors and property valuation. She also said she expected this case to be appealed.

One of her concluding remarks was that there were many rural areas in Boulder county. She hoped the amateurs with tower aspirations could locate in these areas. she stated that she had no problems with any of the facts of the case as presented by the plaintiffs, but proceeded to rule against them anyway.

The amateurs presented evidence which showed conclusively that the proposed towers would be completely safe, that property values would not be affected, that health factors would not be a concern, and that scenic vistas on the whole would be affected in only a very limited way for a few residents.

All the benefits and positive aspects of amateur radio were ignored except the amateur operator's capability for emergency communications. The opinion is that amateur radio is only a hobby and that 35 foot tall antennas are adequate.

Marshall Quiat, AG0X, filed and argued a strong case supported by extensive documentation. A professional property value comparison was submitted to the court showing that amateur radio towers had no adverse

effect on property values. Marshall has been assisted by Bob Neece, KØKR and Chris Imlay, N3AKD. through Bob and Chris, ARRL filed an amicus brief.

A notice of appeal was filed August 8, 1988 for an appeal hearing before the 10th Circuit Court of Appeals. Doc and Tim intend to press on, but it will be an uphill battle. the ARRL might file as a co-plaintiff.

There are two separate issues we must be concerned about:

1. The Federal Court case
2. And the new ordinance put forth by Boulder County.

Both issues directly affect A L L amateur radio operators in Boulder county, and across the United States. We must put forth a determined and coherent effort.

To retain our right to erect effective antennas, we must take this case to the Federal Appeals Court. It is an excellent case, as ironclad as they come. So far our legal representation has been donated by Bob Neece, KØKR, and Marshall Quiat, AKØX, the ARRL Rocky Mountain Division director.

This is clearly developing into what will be an extended battle to regain our amateur privileges. There are both near and long term funding needs. At present we have an extremely important appeals court case to fund. Later there will be additional attempts by the county to modify their ordinance and continue to unreasonably restrict amateurs. It is also quite possible that we might be required to defend ourselves against suits from dissatisfied neighbors.

Such a suit was just lost by a Boulder amateur on Tuesday, August 16, 1988. Boulder District court judge Roxanne Balin ruled on the basis of the complaint filed that the amateur's towers are illegal. this amateur spent months going through the variance process before the Boulder county Board of Adjustment as directed by the boulder County Commissioners. He was granted the necessary variance and permit. The judge's ruling evidently means that the county didn't know its own laws. (The initial favorable variance decision was used by Weischienkas evidence of a "favorable" climate for amateurs in Boulder County.)

Additional funds are now desperately needed. We appeal to A L L amateurs and other interested parties to donate generously to this cause. Without adequate funds, recent court action and local ordinances might signal the demise of the Amateur Radio Service.

If every amateur share the burden of this immense task by donating \$50, \$100 or more, in installments if necessary, we would be well on our way toward achieving our goals. A minimum of \$30,000 is needed at this time. The fund stands at \$2,200 today.

Also, a reminder to everyone. There is a county commissioner's election coming up. It will pay to vote for the commissioner candidate who will be most likely to treat amateur radio fairly. The ones in office do not fit this description.

The ordinance voted by the Boulder County Commissioners on June 28, 1988 follows:

Proposed amateur antennas and/or Towers:

1. that exceed the zone height limit (35 feet residential, 50 feet agricultural),
 2. are closer to a boundary than a set-back equal to the height and width of the installation,
 3. which exceed the limit of one per lot,
 4. exceed 10 feet above the roof line,
 5. which involve "substantial" changes,
- must be submitted to the Limited Impact Special Review process.

The estimated fee for the review is \$100 and up, according to complexity of the review and the expense of much paperwork, some studies and expert reports. this process is being developed for open Mining. Once a permit has been issued, and "substantial" changes to the antenna or its support require a new review and permit. the county defined "substantial" as "probably height and/or bulk".

One amateur has already inquired about a permit under the new ordinance, which is not yet law. He was told to submit TWENTY-ONE (21) separate items of application. He must meet an additional long list of requirements, which were never mentioned by the county during the hearings.

In additional developments, we received a call from the Denver FCC office on Monday, August 15, to refer a hot RFI complaint against a Boulder amateur. According to the FCC, they are being inundated with complaints against amateurs from all over the Denver metro area. the complainants all sing the same tune: "Its only his hobby. He doesn't have to do it. I've talked with all the neighbors and we want him off the air, so we can live in peace." The same litany was heard at the various hearings in Boulder.

Rember your contribution. Every contribution is greatly appreciated! Make your check payable to BALDF (Boulder Antenna legal Defense Fund), and send to;

Barbara H. McClune, N0BWS
5338 Spotted Horse Trail
Boulder, Colorado 80301
(303) 530-1872

MANY, MANY THANKS TO ALL YOU WHO HAVE HELPED WITH THE MAILINGS AND WHO HAVE ALREADY CONTRIBUTED ONE OR MORE TIMES.

73,
Barbara, N0BWS, chairman 530-1872
Al Beu, WA0LMQ, 665-3113
Scott Whitehead, KA0QPT, 494-2760
Marv Ross, W0PSY, 442-8152
Bill Currie, WD0EHJ, 772-2829
Dale Scott, KA0QPV, 665-2346
Kim Elmore, N5OP, 772-0960
Steve London, N2IC, 665-7686
Chris Miller, WA0SYS, 678-1260

Code Characters Frozen During QSOs

In a recent report on last year's DXpedition to Antarctica, the League of Radio Relaying Americans' Technical Committee on Propagation has disclosed an unusual cold weather effect on radio transmissions. According to Committee chairman, Dr. E. Flux Norgate, the DXpedition experienced temperatures below -100 degrees F. on three occasions, and each time the temperatures fell, QSOs would be interrupted for up to 30 minutes because CW characters either froze or stuck together as they left the antenna, making communication impossible. On one occasion a complete transmission's worth of CW froze solid to a radio hut trapping the occupants for 18 hours. On another occasion, the morse code was transmitted all right but stuck together so badly that the receiving station could not copy it. Thus far the LRRR has no explanation for the phenomenon.

Elmer Grunt Lectures on Early Predecessor to Morse Code

Old timer Elmer Grunt lectured on the 26-dit code system last week at the Traditionalist radio Amateur program Class 'C' license class. Grunt explained to the students that early radio operators did not immediately adopt the morse Code, but first used the 26-dit code instead for many years. In the 26-dit code, each letter of the alphabet was assigned a corresponding number of dits. That is, A=., B=.., C=..., J=....., etc. "Although popular," Grunt said, "the 26-dit code was unfortunately somewhat cumbersome". Grunt went on to tell the class how the 26-dit code was replaced by the "Dit and Space Code" in 1879. This code system was much simpler in that it required a maximum of only 13 dits to form a character. These dits were used in combination with 13 spaces which were performed in the carrier-off or key-up mode. Finally, before the turn of the century, another code system, the "No Dit, All Space Code," was briefly tried. It was the simplest of all as it required no dits. All characters were formed in the key-up mode. In fact, no key was necessary. Unfortunately, this code, while using very little spectrum space, was very difficult to copy and never gained acceptance among hams of the day. Still, now and then on straight key night, one is likely to hear an old timer like Elmer Grunt get on he air with he 26-dit code, the "Dit and Space code," or the "No Dit, All Space Code".

note: excerpts from GEARVAKF Spring 1980 QSP'd KØRW

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