PRIMTED CIRCUIT

JANUARY 2004

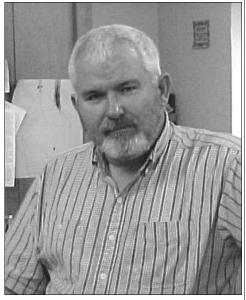
Newsletter of the Joplin Amateur Radio Club

Vol. 14 Issue No. 1

JOPLIN HAM DIES AT AGE 51

Another of our fraternity, Mr. Hal Dannelley, WBØLJF, passed away at his home Monday November 17th, from a sudden illness. He was 51 years old.

Hal was well known around the area in



both the commercial RF and the amateur radio community. For several years he owned and operated a two-way radio shop - Direct Communications, along with his wife Cherylann, later working as an electronics technician with this editor at Scott Electronic Systems.

Over the years I came to appreciate Hal's skill as an excellent engineering electronics technician. He brought with him a solid background in the field, a wide variety of experience, and an uncanny "sixth sense" intuition which only comes from a thorough knowledge of the art. He

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WRC-03 IMPLICATIONS FOR HAM RADIO ON ARRL BOARD AGENDA

raft proposals to implement changes in US Amateur Radio rules in the wake of World Radiocommunication Conference 2003 (WRC-03) will be up for discussion when the ARRL Board of Directors convenes later this month. The Board also will elect officers for the next two years. ARRL President Jim Haynie, W5JBP, has indicated that he plans to run for a third term. The Board will meet January 16-17 in Windsor, Connecticut.

Among other significant changes, WRC-03 delegates agreed last summer to leave up to individual countries whether to require a Morse code test for access to amateur high-frequency allocations. Several countries already have dropped the Morse code testing requirement for HF access. In the US, the FCC last year invited public comments on 14 Morse-related petitions for rule making, but it has not yet acted on the issue.

The ARRL Board is expected to discuss in detail recommendations in response to WRC-03 that were developed during last November's meeting of the ARRL Executive Committee.

Amateur Radio-related matters still in the pipeline at the FCC also are expected to be a topic for discussion. ARRL's 2002 "omnibus" Petition for Rulemaking http://www.arrl.org/news/stories/2002/03/22/4/, which includes a request to eliminate the current Novice bands and "refarm" the spectrum, is among those proceedings seemingly stuck at the Commission. The FCC also has yet to act on other non-

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ARRL SEEKS OPINIONS ON THE MORSE CODE LICENSING REQUIREMENT

At the Board of Directors meeting next week, the Board will revisit the current ARRL position on the requirement of Morse code testing. The current position was formally adopted prior to WRC2003 and is this:

The ARRL will not oppose the elimination of the Morse code as an international requirement for amateur radio licensing, but supports retaining the Morse code requirement for amateur radio licensing in the United States.

Since Morse code was eliminated as an international requirement for licensing at WRC2003 this past year, many other nations have already dropped the Morse code licening requirement and several proposals have already been presented to the FCC by other individuals and groups to do the same in the United States. Now is an appropriate time for the Board to revisit its position on this issue.

I apologize for the lateness of this request, but I am soliciting your opinions on this issue prior to the Board meeting on January 16-17. I know you will give me your most thoughtful inputs.

In preparing your comments, I hope you will keep two important things in mind:

 Since there some extremely vocal groups on both sides of this issue, no matter what action the Board takes next week, it will be judged as wrong by a large number of folks.

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inside...

"CW - THE WAY IT WAS" Part IV ...

ARES Update
Upcoming Events / Hamfest Calendar/Classifieds

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CW - The Way It Was - Part V

time ago.

equipment in this article. There were 9 frequencies assigned to the National Police Radiotelegraph Network and we always tried to get a tenth one that would allow us to operate at longer distances. The frequencies were in 3 bands. This was SIMPLEX CW operation

with a legal power limit of 1000 watts. The frequencies were 2804 kHz, 2808 Khz, 2812 Khz, 5135 Khz, 5140 Khz, 5195 Khz, 7480 Khz, 7805 Khz, and 7935 Khz. Considering that most of the stations in the Network were on 24/7 schedules those frequencies provided fairly decent coverage whatever the time of day. Daytimes would find the 5 and 7 frequencies in use where evenings and nighttime the 5 and 2 would be used. The frequencies 2804, 5195, and 7935 were "calling & working" frequencies, however, it was suggested that the other two frequencies in the group be used if at all possible as initial calling was done on the 3 that I mentioned. On the 7 Mhz frequencies the spread between 7480 and 7935 created some problems for most of our transmitters and instead of being able to have 3 crystal controlled drivers into a final we generally had to have a separate driver for the 7480 frequency. This also showed somewhat of a problem in the antenna arrangements and most of us lived with a slightly lower output power and range on the 7480 frequency. It could have been our set up but I found that 7480 was a very good clear frequency and I would

this subject I find that I recall 7935 most of the time. The Illinois CW things that were not up front when stations were very busy between bad but the worst part was when the ice some of it was written. Suppose that is the themselves and it was almost a certainty way things turn out unless your pretty that they would be on 2804 as soon in the would start to melt and break off. Huge much used to writing - and I am not. You evening as that frequency came alive. It chunks, often over 6' and up to 10" thick, will also have to bear with me on grammar was not a bad thing as we knew where to would start falling off and the frozen as that was definitely not one of my better find them and the range was not that great ground shook when they landed. Lighter subjects in school and school was a long then either so they did not interfere with icing conditions were common where it other more distant stations. Indiana sat on would effect the big tower but not our 2808 with their traffic and Missouri, JC We closed PART IV indicating we would (Jefferson City) could be raised on 2812 as requested a 14 Mhz. frequency be given us cover frequencies and some of the could KC (Kansas City PD). What this did for reliable long distance contacts but the



was to free up the 5 Mhz. frequencies for longer distance traffic handling. While on the subject of frequencies I will mention what our antenna system consisted of. We had cut dipole antennas for each of the bands. They were fed with hard drawn line and suspended about 40 feet above ground level at the feed point. direction of radiation of our antennas had to be considered due to our location in the northern and central part of the country. Also who our traffic was usually directed to came into play. We always wanted to be able to get up on that 654' tower but never were allowed to do so. The 2 Mhz dipole had its ends east and west of the feed point. The 5 Mhz dipole had its ends north and south of the feed point. The 7 Mhz. dipole had its ends northeast and southwest of the feed point. All antennas were fed from the same 40' tower. Of course only one antenna would be transmitted on at a time so there was no interference and full break in operation was used. We had one other antenna, about 160' long, fed with 1/2" Andrews spiral foam line which could be utilized when we had problems with any of the dipoles. Strictly emergency operation but it worked and was used at times. The

ooking over the previous copy on opt to go there after establishing contact on tower site was subject to a lot of icing conditions. Build up on your antenna was that would build up on the 654' tower equipment until the ice started to fall. We

> FCC never did come up with it. I am sure it would have made things a bit easier on the hops between TX, FL, OH, CO, and the west coast stations.

> I saw some very nice made commercially CW equipment over the years but as an operator I never got to

use anything very modern. The first WI. Chief of Police Communications, Raymond Hoffman, built the first CW transmitter the station operated. It was a simple design, had the 9 crystals for the 3 bands of frequencies, had 4 oscillator/ drivers (one for the 7480 Khz frequency alone) and a pair of finals that produced about 350 watts (on a good day with good weather conditions). The unit was built into a cabinet that had metering and a small fan that operated whenever the finals were powered up. It was placed to the right and in line with the radiotelephone base station transmitter and receivers for the station. The CW operator console was rack mounted and placed to the right of the CW desk at eye level and an easy reach when sitting at the desk. There was a row of 9 white lights and one would illuminate indicating what oscillator/driver was selected. This was done by moving a toggle

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CLUB COAX AT COST TO CLUB MEMBERS

RG8X - \$0.31/ft. LMR400 - \$0.71/ft. Contact Jim NØZSQ at the meetings.

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from the middle position to the down into the base of the speaker on the desk, position. The toggle switch also coupled a and we could adjust the volume in that receiver of the same frequency as the manner. The CW-3 was a rack mounted transmitter to your audio monitors. A strip receiver. It had its own power supply, second toggle switch, located on the base 5 or 6 tubes, not very selective so you didn't of the 6" speaker enclosure at your left side have to change the BFO much, and the on the desk, allowed you to select the sensitivity was not the best. The nice part headset, the speaker, or both at the same of it was that you could put it on just about time. I think you can see a potential any frequency by selecting taps and pots problem here in that you MIGHT put more that were internal to the receiver. If a unit than one of the toggle switches in the down died while you were on shift, it was your position at one time and select multiple responsibility to fix it, or figure out how professional operator and should be aware especially troublesome if one of the 3 of what your doing so DO NOT DO IT. To "calling" frequencies were involved. This apply final power you had a 3" long lever was not just a problem for us and stations switch, mounted just below the toggle would switches and in the center of the panel, "OPERATIONS" message advising that that had 2 positions. OFF and ON, they had no operation on such and such a Directly above that switch was a red jewel frequency until further notice. With us as light that lit when the power was in the ON busy as we were on a normal shift it was position. There was no question when the almost impossible to repair anything. This High Voltage was applied as the fan had a created a condition where some operators rattle and whine noise that was tended to ignore that it ever happened. We unmistakable. Quite simple and when knew among ourselves who was straight conditions were good, you were not and who was not. Like I said there were pressured or working alone doing both the only 4 Police Radio Operator II's and some phone dispatch and CW, things went along carried their load others did not. Staffing smoothly. Admittedly, when working was a continual problem for both CW and alone the CW took a back seat to the fone Voice operations. An FCC Restricted dispatch and our good friends, the PD Radiotelegraph ticket was all that was Milwaukee - MK - operators, would help required to operate the CW equipment and us in any way they could. We had voice as it eventually came to there being only one well as CW contact with them and would CW man qualified to make frequency often advise each other that someone was measurements. calling them/us on the Network over the radiophone mode. I have described CW The frequencies used, what our original Our receivers were commercially built next, and probably the final, article. WILCOX CW-3 Models. One for each frequency and one spare. They were 73 de Mac/W9NLA crystal controlled, had a knob that allowed you to vary the BFO a bit so you could tune in the station, another knob for the level of volume you wanted, and a jack for the

audio output. We put the audio into a switch, located directly below each light, separate amplifier that, again, was built SO WHAT. You are a vou were going to get it fixed. This was periodically send

Transmitter number 1, which was used transmitter was like, the antenna from 1949 to sometime around 1957. It arrangement, and the CW receivers have was called "The HOFFMANIVICH", been covered here. I will get into the set affectionately named for our first Chief of up of the operator position and the Police Communications and the builder. subsequent equipment that was used in the

>>> The meetings have moved again! <<< The JARC is now meeting back at City Hall at 3rd and Pennsylvania in the basement Cafeteria. (Continued from page 1)

felt comfortable in any situation and never hesitated to tackle any electronics problem.

Hal liked operating on the HF bands. He mentioned to me that he especially enjoyed helping John Stucka (N3JM) with his tower and antenna installation, as well as working out some grounding issues. He spent several weekends as John's guest tweaking the system then enjoying the fruits of his labor on 20m.

Hal also had considerable expertise in VHF/UHF systems, and taught me quite a bit about antennas, RF, oscillators, and receivers. His knowledge helped me avoid many of the pitfalls and common myths associated with RF circuits and antenna systems.

Over the years he had played an active roll helping to solve JARC technical issues. He helped both me (when I had the dubious distinction of being on the club's Technical Committee), and Bruce, KFØTD, on repeater related issues. He had participated in numerous club events, including Field Day, the Hamfest, and one of his favorite pastimes - DF hunting.

He enjoyed working with his hands, this gift kept him in demand by family, friends, and his church. Other diversions included woodworking, hunting, and feeding the ducks that followed him around the homestead. He was a fine gentleman, and a good friend to many of us. He will be missed.

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ARRL rule making petitions http://www.arrl.org/news/stories/2002/0 1/10/3/>. The subject of Broadband over Power Line (BPL) also is on the Board's agenda.

Among other actions, the Board also will elect members to the Executive Committee and appoint three directors to the ARRL Foundation Board. ¶

ARES Update

As everyone knows, ARES seems to be less active during the winter months, but we need not worry, it is still there if needed. In southwestern Missouri, we have only seen use for storms & some public service. Near future plans call for establishing the NTS system and making it active within our group.

A different mode of transmission will soon be implemented, called packet radio. It is being looked at mainly for the reason that a large amount of items can be sent in a small amount of time. At this time, two different locations are being considered. Soon, the locations will be shared with the group.

73 Andy Gabbert

OTHER ARES NEWS

The Jasper County/Tri-States ARES participates in drills regularly with other area agencies in order to supply a coordinated communications backbone in case of an emergency. All area hams are encouraged to join ARES and become familiar with procedures.

Regular ARES announcements are made weekly at 19:30 on the JARC Monday night net, and at regular JARC meetings. Andy can be reached at 417-673-8371, or email at agabbert 80@sbcglobal.net

Be sure to visit the new ARES website at: http://www.qsl.net/jcmares/index.html

Andy Gabbert, KAØTUD Jasper County/Tri-State ARES EC

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2) If BPL is not defeated and soon, the Morse code/no Morse code debate will be moot.

Again, please let me know what you think about this issue.

Wade Walstrom WØEJ Director, ARRL Midwest Division w0ej@arrl.org

HAM EQUIPMENT

INDIVIDUAL LISTINGS ARE FREE TO THE AMATEUR COMMUNITY, AND SPACE IS ALLOCATED ON A FIRST COME BASIS. COMMERCIAL AD SPACE IS AVAILABLE AT A NOMINAL CHARGE.

For Sale - Radio Shack HTX-252 - 2 Meter FM Transceiver. Selectable 2.5 or 25 Watts. Generates PL Tones for repeaters, etc. Very good working condition. Normal wear on the case and DTMF microphone but no frayed cables, cracks, etc. Operator's manual available from the RS web site. Exact age unknown. Picture available. \$50 shipped in the US. Tim McDonough, N9PUZ, email: n9puz@arrl.net

WTB - Working decent Heathkit HW-8 for a reasonable price. I want to buy one for a friend. Mike Sanders, KØAZ, 18169 Highway 174, Mt. Vernon, MO 65712-9171 Email: k0az@arrl.net

11/2003

For Sale - MF.I-986 Differential Tuner, 3KW MFJ-986 Differential tuner covers 1.8 through 30 MHz continuously. Cross needle meter. Outputs for two coaxial, one balanced line, and one dummy load. Excellent condition. John, N3JM (918) 786-8135.

Email: n3jm@arrl.net

For Sale - NYE VIKING 3KW Antenna Tuner MB-II-V-A Here's your chance to own a REAL high-power tuner with optional internal balun & SWR meter. Covers 1.8 through 30 MHz continuously. It will match just about anything you can hook up to it. John, N3JM (918) 786-8135.

Email: n3jm@arrl.net

10/2003

For Sale - HEATHKIT SA-2040 Antenna Tuner 2KW. Covers 1.8 through 30 MHz. John, N3JM (918) 786-8135.

Email: n3jm@arrl.net

10/2003

For Sale - DIAMOND Antenna SX-1000 **SWR and POWER METER.** For 1.8 through 160 MHz, and 430 MHz through 1,300 MHz. John, N3JM (918) 786-8135.

Email: n3jm@arrl.net

10/2003

For Sale - 12V Sealed Lead Acid Batteries Unused stock, 12V/4.5AH 3.5"x2.75"x4"LWH Application: EXIT, Security light systems. \$5 (417) 781-2211, Email: wb0iyc@arrl.net

For Sale - Rohn 25G Tower Sections - Used Serviceable condition. 15 pieces available at \$50 each. Hal WBØLJF (417) 781-6739

Area HAMFESTS and EVENTS

LISTINGS ARE PROVIDED AS THEY BECOME AVAILABLE AND ARE NOT

10 Jan 2004 - Willard, MO

145.490 Repeater Group - WinterFest 2004 at the Willard Recreation Center http://www.qsl.net/49ers Michael Blake, NØNOW, Ph: 417-839-2071 Email: n0ngw@arrl.net

17 Jan 2004 - St. Joseph, MO

Missouri Valley & Ray-Clay ARC 14th Annual Northwest Missouri Winter Hamfest. Ramada Inn, 9 AM to 3 PM Contact: Carlene Makawski, KAØIKS P.O. BOX 1533, St. Joseph, MO 64502 Ph: 816-279-3406 Email: nem3238@ccp.com

7 Feb 2004 - LaCygne, KS Mine Creek ARC presents the LaCygne Hamfest Info: Ron Cowan, KBØDTI Ph: 913-757-4455 Email: kb0dti@arrl.net

6 Mar 2004 - Russellville, AR The Arkansas River Valley Amateur Radio Foundation presents the Russellville Hamfest at the Hughes Community Center (Knoxville & Parkway). Talk-in 146.82- K5PXP, Adm. \$5: Tables \$10: ARRL sanctioned. DXCC/VUCC/WAS card checking, Forums, Door Prizes, Free Parking, Free Tailgating. Open 8am, VE testing 09:30 Margaret Alexander, KC5MCS 479-968-7270 email: ealexand@cswnet.com http://www.cswnet.com/~arvarf/hamfest.htm

13 Mar - Harrison, AR North Arkansas Amateur Radio Society Hamfest. 8am-1pm

19-20 Mar 2004 - Claremore, OK

Oklahoma Section Convention sponsored by the Green Country Hamfest Committee http://www.greencountryhamfest.org Info: Merlin Griffin, WB5OSM 918-520-7668 PO Box 470132, Tulsa, OK 74147 Email: info@greencountryhamfest.org

20 Mar 2004 - Brenham, TX Brenham ARC Hamfest. Contact: Dan Lakenmacher, N5UNU Ph: 979-836-8739 llakenmacher@yahoo.com http://www.alpha1.net/~barc

27 Mar Weatherford, TX ARC of Parker County Hamfest. Info: James Adams, AD5KG Phone: 817-341-1979 Email: ad5kg@arrl.net

JANUARY 2004

Joplin Amateur Radio Club Meetings and Events

Sun	Mon	Tue	Wed	Thu	Fri	Sat
Don't Forget! Meetings are at City Hall.				1	2	O9:00 Breakfast-
4	5	6	7	8	9	10
14:30 -15:30 JARC SLOW SCANNET	19:30 JARC MONNITE NET 147.21 MHz WØIN REPEATER			17:30 THURSDAY NITE OUT-		09:00 Brieanfast-
11	12	13	14	15	16	17
14:30 -15:30 JARC SLOW SCAN NET	19:30 JARC MONNITE NET 147:21 MHzWØIN REPEATER	19:30 JARC Business Mieeting		17:30 THURSDAY NITE OUT-		09:00 Breakfast-
18	19	20	21	22	23	24
14:30 -15:30 JARC SLOW SCANNET	19:30 JARC MONNITE NET 147.21 MHZWØIN REPEATER			17:30 Thursday Nine Ouт-		09:00 Breakfast-
25	26	27	28	29	30	31
14:30 -15:30 JARC SLOW SCANNET	19:30 JARC MONNITE NET 147:21 MHz WØIN REPEATER	19:30 JARC Program Meeting		17:30 THURSDAY NITE OUT-		09:00 Breadfast-

Meeting Times, Testing, and other Club Information

he Joplin Amateur profit organization, meets on the second and fourth Tuesdays of each month at the Joplin Municipal Building, on the lower level, in the Civil Defense dining room at 7:30 PM. The 417.781.3154. is accessible to the facility handicapped.

The club supports and promotes annual operating events, assists area agencies with communications when requested, and offers training classes for advancement in amateur radio. It also sponsors the JARC Hamfest each year in April, and maintains a wide area coverage OPEN 2m repeater on 147.21 MHz (+).

Point your browser to the club website to get the latest information on upcoming events, photos of past events, and links to other ham sites. http://www.joplin-arc.org

Radio Saturday mornings, members gather Club, Inc., a Missouri not-for- for breakfast around 9:00 a.m. at the restaurant next to Smitty's Grocery located at 1820 Maiden Lane in west Joplin. For details contact Dave. NØKMP on 147.21+, or land line at

2004 CLUB OFFICERS:

President: Martin Matarazzo WD6FIC KAØTUD V. P. Andy Gabbert Treasurer: Jim Johannes NØZSQ Secretary: Mark Mitchelson NØZPD

VE TESTING SCHEDULE

License testing by volunteer examiners takes place on the 4th Saturday in February, May, August, and November at the SW Missouri Bank building located at 7th and Duquesne, in Joplin. Sign up at 12:30 PM, testing begins promptly at 1:00 PM. For more information contact Dave Hill KIØPP 782-8762.

ABOUT THE NEWSLETTER

This club newsletter offers an open forum for the amateur radio community in the four-state area. Your comments and contributions are always invited. Items for publication, including classified ads and amateur radio related articles, may be sent to the JARC Printed Circuit, P.O. Box 2983, Joplin, MO 64803-2983, or ascii text email to: wb0iyc@arrl.net

Deadline for submissions is the 20th of the month preceding the month of publication. Non-Commercial Classified ads are free and will be run on a space available basis. Classified ad space is available at \$6/pg/month. pro-rated for fractional parts to 1/6pg. Submissions may be typed, handwritten, email ASCII text files, or on IBM formatted disks. All items will be edited for spelling, content, and space limitations as required.

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5862-50843 innoseiM , nilqoL P.O. Box 2983 Joplin Amateur Radio Club, Inc.