

The Wave Bender

June 2014



WRARC PREZ SEZ

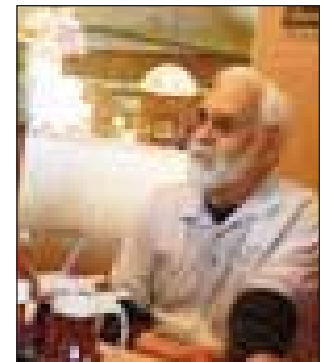
First of all, I would like to thank everyone who came out for the Rt. 446 road clean up on Saturday, May 24. We had 12 people come out and everyone did a fantastic job. That road never looked better! I hope everybody had a pleasant Memorial Day and took the time to remember our veterans.

June is coming up and we will be looking forward to Field Day, which is the 28th and 29th this year. If you haven't made plans to attend yet, contact Steve KC8SOY or Chris KD8ELY. I'm sure they will help you out. Remember that everybody is welcome to come out to Elser Airport in North Lima to join us.

Coming up on July 11 and 12 is the Tour of the Valley bicycle race. The time trials are on Friday evening at Mastropietro Winery on 14558 Ellsworth Rd., Berlin Center. The race is Saturday in Columbiana, starting at the high school around 8:00 or 9:00 in the morning. I am looking for volunteers for both events. Friday evening I will need about six or seven volunteers for the time trials.

The race on Saturday will require about 15 or 20. Call me at 330-782-8525 or 330-717-3695, or e-mail me at harens@juno.com. I will have a sign up sheet at the meeting on June 10. Also, don't forget the field trip to K3LR on June 17.

Thanks again to everybody that helped with the road clean-up,
73, Roy, KD8IJF, President



Officer's Meeting: June 3, 7:00 P.M. At Eat 'n Park, 8051 Market St., Boardman.
Regular Meeting: June 10, 7:00 P.M. Davidson's, 3636 Canfield Rd. in Cornersburgh
Speaker: Get together for an eyeball QSO with other members
Topic:
Road Trip to K3LR: June 17

2014 Officers:

President:	Roy Haren, KD8IJF	kd8ijf@wrarc.net
VP:	Joe Wojtowicz W0JO	kd8rcc@wrarc.net
Secretary:	Kevin Stein, KD8NXS	kd8nxs@wrarc.net
Treasurer:	Maureen Stein, KD8NXS	kd8nxr@wrarc.net
Trustees:	Steve Fabry, KC8SOY	kc8soy@wrarc.net
	Chris Monske, KD8ELY	ld8ely@wrarc.net
	Harry Harker, KD8PQK	kd8pqq@wrarc.net

Appointed Positions:

Social:	Maureen Stein, KD8NXS	kd8nxs@wrarc.net
Publicity:	Joe Wojtowicz, KD8RCC	kd8rcc@wrarc.net
Newsletter/Web:	Jane Avnet K8JAA	k8jaa@wrarc.net
Facebook/Badges/logo Design:	John Fabry, KC8SPF	kc8spf@wrarc.net

<http://www.wrarc.net/>

FROM OUR VP



Just a reminder to everyone that the monthly meeting of the Western Reserve Amateur Radio Club is scheduled for the second Tuesday of the month, or June 10th, 2014 at Davidson’s Restaurant, 3636 Canfield Road, Canfield, OH 44406. Dinner is at 6:00pm EDT with the meeting starting at 7:00 P.M. EDT. No speaker is scheduled for the June regular meeting.

The monthly meeting was moved from the third Tuesday of the month to the second Tuesday as we have scheduled a field trip to visit the amateur radio station, K3LR, which is owned and operated by Mr. Tim Duffy, K3LR, who is a long-time amateur radio operator and currently General Manager and Chief Marketing Officer for DX Engineering (a leading international retailer of amateur radio equipment, parts and supplies) located in Tallmadge, Ohio. For those of you who may not know, DX Engineering is located in the Summit Racing Equipment complex right off I-76 before you get to Akron, Ohio. Their website is www.dxengineering.com.

If you’ve ever headed east on Interstate 80, K3LR is the large antenna farm with a number of both beam and vertical antennas off to the right just past the first rest stop in Pennsylvania after crossing in to Pennsylvania.

Tim has graciously accepted our request for our club members to tour his facility. The tour is scheduled for Tuesday, June 17th, 2014 at 6:00pm EDT. The station is located at 44 Elliot Road, West Middlesex, PA 16159. (Grid Square EN72fh - Lat: 41.177444 Lon: -80.495556) You can obviously put the address in your GPS or print out the route from GOOGLE maps. If you have access to neither, if you are coming from the west, go to the intersection of State Routes 62 and 304 in Hubbard and head east on East Liberty Street or, State Route 304. Follow State Route 304 past the Oak Tree Country Club (where it turns to Pennsylvania State Route 318) and make a left on to Seig Hill Road. Follow Seig Hill Road until to you come to Elliott Road and make a left. For any members coming from Western Pennsylvania, just take Pennsylvania State Route 318, or Hubbard-Middlesex Road, from West Middlesex, Pennsylvania and make a right onto Seig Hill Road. Then, follow to 44 Elliot Road. Parking is available along Elliott Road.

For those of you who are interested, you can also visit the station’s website at www.k3lr.com to get more information. We look forward to seeing all of you at both the regular club meeting on Tuesday, June 10th, 2014 and the field trip on Tuesday, June 17, 2014.

73,
Joe Wojtowicz, W0JO
WRARC VP



Tour of the Valley began as an eco-friendly event that has grown to become the largest competitive cycling stage race in Ohio. This annual event presents an impactful community opportunity that unites individuals, families and civic leaders in making greener choices. Let’s ride our way to a better tomorrow and showcase the Ohio Valley’s diversity, heritage and resilience.

Tour of the Valley is a carbon-neutral, competitive, multi-stage event with 400+ pro and elite amateur riders from across the Midwest and beyond, touring the Mahoning and Columbiana Counties via 21 races in July. Competing for \$12,000 in cash prizes.

We need your help, please volunteer - call Roy

Join us for the WRARC Friday night Net 9:00 P.M.
145.270, PL -110.9

Upcoming Net Control Operators

June 6 Dave, KC8WY
June 13 Chris, KD8ELY
June 20 Darrin, N8DMC
June 27 Dennis, KD8SNA
July 4 Al, AB8AA
July 11 OPEN
July 18 Jane, K8JAA



Contact Steve, KC8SOY to take a turn at Net Control
330-774-6346
Ask The Elmer Net Right after the Friday Night Net
KC8SOY Moderator

Mahoning County ARES® Nets

1st Monday 8.30 PM ET W8QLY Repeater - 146.745 (PL 110.9)
&
3rd Monday 8.30 PM ET W8QLY Repeater - 146.745 (PL 110.9)
We thank MVARA for the use of their repeater

W8SGT is facilitating The Ohio HF net every Tuesday - 7:00 PM
The net is run from the State of Ohio EOC on the
Ohio ARES Admin frequency 3875 kHz LSB
moves to 7240 Khz after 20-min.
All are welcome to check in.



The Ohio ARES/OES Digital Emergency Net held every Tuesday at 8:00PM.
held on 3585 kHz USB.

Please note all digital communications are Upper Side Band.
<http://www.http://ohden.org/> for net details. Net Manager Gary NJ8BB

COLUMBIANA COUNTY DIGITAL NET

Wednesdays 8:30 pm - 9:30 pm
145.510 MHZ SIMPLEX

NBEMS/FLDIGI is being used training on the message handling
capabilities of FLDIGI/FLMSG. Start with BPSK-125 other modes may be used for testing

First Wednesday of the Month Mahoning County Skywarn Net
is held on the W8QLY repeater 146.745 (-) at 8:30P.M.

Thanks & 73

All of our members (and others) look forward (hopefully) to getting this newsletter every month, so keep sending those articles, jokes, and suggestions!

Thanks goes out to this month's contributors; KD8IJF, AB8AA, KC8ELY, W8IZC, KC8SOY, W0JO, KD8NZF, KC8PD, KD8SNA, W5YI, the ARRL and the World-Wide Web.

ASK THE ELMERS



"Elmer" is a nickname or term used to describe someone that can answer lots of your Ham Radio related questions.

Hey you out there! - whether you're a 'newby' or an old hand at this Ham 'stuff.' The WRARC Elmers are ready and waiting for your questions. Don't be shy, just ask! And remember "there are no dumb questions - the only dumb questions are the ones that you don't ask.." The questioner will be anonymous, but you'll know who answers. Send your 'smart' questions to questions@wrarc.net and wait for your well thoughtout answer in the next **Wave Bender**.

Q.How do I program my hand held radio?

A. Bring the radio and the manual to a meeting and one of us will help you - 73, Al, AB8AA.

Q - I purchased a 2-meter hand held after I received my Technician license. I can make great contact through the local repeaters with my "rubber ducky" antenna. I'm wondering if there is something I can do to with my 5-watt handheld to contact repeaters farther away with some different type of antenna? Any ideas?

A - There are a couple of options available , that I know of, to increase the "reach" of your five-watt two-meter hand held. It wasn't that long ago when I tried these options with some good success.

The first option, construct a two-meter copper J-Pole antenna. This antenna is made from copper tubing available at stores like The Home Depot, Lowe's, or any plumbing supply store. There are a number of plans on the Internet for this type of antenna including on the ARRL website at <http://www.arrl.net>. This antenna, some coax (I used RG-8X), and PL-259 connectors will give you a good starting point. This antenna can be mounted on the side or rooftop of a building. When you graduate to a two-meter base or "inside the house mobile" rig, you can use this same antenna with good results.

The second option, buy a two-meter mobile antenna with a mag-mount. The mag-mount generally contains about 10 -15 feet of coax with it. The mobile antenna option gives you a degree of "take along" flexibility that the J-pole does not. You can mount it to the side of a building or a roof using a bracket and metal plate. You can also turn your handheld into a mini-mobile by locating the mag-mount antenna on the roof or trunk of your vehicle. When I placed the mag-mount antenna on top of the car, the distance I "got" from that five-watt handheld was quite amazing.

For either of these options you will need an SO-239 to SMA adapter to connect your antenna feed-line to the handheld, regardless of which antenna type you use. These are generally available from any outlet that sells Ham Radio equipment.

Good luck and enjoy.
73 - Robert, WR8RW

Challenge WRARC Elmers with your Questions - questions@wrarc.net

Avnet, Allan AB8AA	Antennas, radio setup, mobile, grounding, classes, anything	ab8aa@wrarc.net
Beatty, Dave KC8WY	anything	kc8wy@wrarc.net
Darrin Cannon N8DMC	programming your radio with the computer	n8dmc@wrarc.net
Fabry, Steve KC8SOY	Yaesu FT8900, FT8800, Mobile	kc8soy@wrarc.net
Haren, Roy KD8IJF	???	kd8ijf@wrarc.net
Into, Norm K8NI	Basic Radio & Electronics	radio-k8ni@neo.rr.com
Monske, Chris KD8ELY	Mobile installations	kd8ely@wrarc.net
Webster, Robert WR8RW	erecting antennas	wr8rw@arrl.net
Williams, Russ NR8W	Electrician,tele-data, Amateur Extra	nr8w@wrarc.net



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If you don't ask, you don't learn

Articles from members for the Wave Bender are encouraged. They must be received by the editor three days before the end of any month for the following month. Please send your articles to: k8jaa@arrl.net, and put WRARC on the subject line of your email. You may also send your articles to the editor: Jane Avnet, 2050 E. South Range Rd., New Springfield, OH 44443. Please no telephone submissions.

W4B AT LIMA OHIO

As you can see in the spots below, W4B, Special Event Station operating from Lima, Ohio was on the air on 5/24/14. You may also notice one of the early spots was AB8AA. It was really great to hear from hometown stations AB8AA & K8JAA – thanks Al & Jane.

We were set up at the Allen County Fairgrounds in Lima, OH. Nancy & I pull an old Airstream trailer around and are members of an Airstream Owners group in Ohio, Michigan, and West Virginia. Each year we meet in a different place and get together for a week of touring the area, socializing, and telling tales. We had about 100 Airstream rigs on the grounds. This was the group’s 38th annual meeting and we set up the station to celebrate the rally.

The station was set up in a grassy area of the fairgrounds similar to doing field day. We used an inverted V mounted on about 28’ of the military surplus fiberglass poles. Seemed to be working well and we had good signal reports from most of the right half of the country. Nancy and I traded off operating chores throughout the day. One of our concerns going into it was if we would be able to keep going all day. Glad to tell you it wasn’t bad at all. We spoke with 180 stations and had a blast doing it. Highly recommend it to anyone thinking they would like to try a special event.

Search string: <input type="text" value="w4b"/>		Search: <input type="radio"/> DX Call <input checked="" type="radio"/> Any column	
Year: <input type="text" value="2014"/>	Band: <input type="text" value="ALL"/>		
Mode: <input type="text" value="ALL"/>	Number of spots: <input type="text" value="25"/>		
<input type="button" value="Search"/>			
W7MEM	50125.0 W4BCX	DN17MT<ES>EL98	1516 25 May United States
WBASI	50160.0 W4BCX	EM82<ES>EL98 5/9	1236 25 May United States
V43DX	50160.0 W4BCX		1230 25 May United States
ES4RX	21032.6 YU4B		1047 25 May Venezuela
IW4BET	70105.0 SR2FHG/B	529 jo94<ea>jn54	0908 25 May Poland
WU4BT	21270.0 ES1AVZ	59 in SC	0224 25 May South Cook Islan
VE3PYJ	7227.5 W4B	Airstream Special Event Lima	2151 24 May United States
NN0V	50057.9 W4BCY/B		2112 24 May United States
WX4ET	7225.0 W4B	59 TN; SES Op Nancy	1927 24 May United States
N2PEQ-8	7225.0 W4B	special event station	1917 24 May United States
EA3GJO	50210.0 IW4BET	59 plus IN72 - JN54	1835 24 May Italy
IW4BET	70200.0 EA6VQ	59+ hrd jml9<ea>jn54	1715 24 May Balearic Islands
AB8AA	7225.0 W4B		1652 24 May United States

FIELD DAY 2014

Hi Everyone

Field Day Is coming up soon The June twenty eighth weekends. We will be starting to set up 9:00 A.M. the 27th of June. Everyone is invited to our site whether it’s just a visit, or for the weekend. Remember, invite your friends to our site so that they can see 'n hear what the hobby is all about and the fun we have. If you have any questions about field day please feel free to call me at 330-774-6346 , please no texting



This year we will have a little contest for our operating stations. This contest will consist of grading your station’s setup. The wiring placement, and the order of your setup, your knowledge of field day with the public, and if you are using a home brew antenna. There will be three phases first thru third. Everyone please revue the 2014 field day rules on the ARRL web site, and on the WRARC website.

73 KC8SOY Steve

WHAT'S COMMING UP?

- June 10 Meeting at Davidson’s - 7:00 P.M.
- June 17 Field Trip to K3LR - 6:00 P.M.
- June 18 Test Session at ITT at 6:30 P.M.
- June 28 Test Session at our Field Day Site - 10:00 A.M.
- June 28 - 29 Field Day at Elser Airport again this year
Contact Steve KC8SOY, Chris KD8ELY, or Darrin N8DMC to volunteer for a station or to help - Contact Maureen KD8MXS with what you’ll be bringing for our Field Day Pot Luck.
- July 11 & 12 Tour of the Valley - contact Roy KD8IJF to Volunteer.
- July 15 Our Annual picnic



HAMVENTION

Hamvention is over for another year, it was fun, but the weather didn't cooperate. It rained almost every day we were there, and a tornado touched down close by. Did I mention it was very chilly? We take our trailer down to Dayton on Wednesday every year. We park it at the KOA in Dayton. We don't have to drive to Hamvention from there, as the shuttle to Hara Arena stops almost at our front door..

We had a 'house guest,' Robert WR8RW, a couple of nights while there. It was nice to see him, and told him he was welcome back again next year. We had dinner with him on Thursday evening, the day he arrived. He said goodbye Saturday abt. noonish to go to Tennessee to visit an old friend before returning to South Carolina. He and Deb, KD8QCE, have a home in a restricted area, so Robert is having to be creative on where and how to put up an antenna.



We were able to have dinner one evening with Beebe, a high school friend of mine, and her hubby Bill, who is a Ham. Interesting folks they were high school sweethearts, they were married shortly after she graduated. They have four children, and spent a number of years in Japan. Bill served many years in the Air Force, came home after his tours to work for the Government. He writes commentary articles for the Xenia newspaper now that he is retired. Yes, they were in Xenia when that tornado hit in 1974.



We saw a couple of members at the Hamvention Ted KD8IJE, Chris KD8ELY, Becca KD8YFO, and Wes W8IZC. We saw a number of Hams from PCARS, and might have caught a glimpse of one or two other Hams from our area. We spent some time in the ARRL booth. Talked to both Scott Yonally, N8SY, and Jack Sovik, KD8WPZ, while there.



We spent some time in the W5YI booth talking to Larry Pollock, NB5X, and Pete Trotter, KB9SMG. Al finally finished the PowerPoint program that will be used to help teach the new Technician class license which starts July 2014.



We saw Gordo, WB6NOA, while at their booth, and introduced him to Becca. He seemed genuinely impressed with her recent speedy upgrade to General, and wants to know when she gets her Extra.



Did I mention my scooter and I had an argument? Scooter one, Jane zero - Yes, I fell, the scooter landed on top of me. Outside of a badly bruised ego, I hurt nothing else I'm just sore. It took three strong men to get it off me, and get it stopped. I noticed a bruise on my big toe and on my calf when we got home. Al got a minor scratch which, thankfully, looked a lot worse than it was.

Saturday night we met Dave, KD8NZF, and Nancy, KD8QNY, for a very pleasant dinner. They were leaving for their Airstream Trailer owner's rally the next day. Hope everyone remembered to call their special event station, May 24.



Yes, 'we' went shopping, we stopped at the HRO booth and talked to Janet Margelli, KL7MF, who runs the store in Anaheim CA. We bought our first Alinco hand helds from her when we were first licenced. Long story short we are now proud owners of a Kenwood 590, and a LDG AL-100 tuner. We left early Sunday morning for home. All in all it was fun in spite of the bad weather, and am looking forward to Hamvention 2015.



73, Jane K8JAA

MAY 8 - SPECIAL TEST SESSION

Our Technician class is over, and it was a great success! The test session was May 8, the last night of class. With 17 students starting out, five of them took their test early, and passed, 13 took their tests that night. We have 15 new Techs. and one new General.

The Hams who took their tests that night, and passed, were: John Ayres, KD8YME; Ivan Wentz, KD8YMM; Richard Knight, KC3CTN; Karen Knight, KC3CTM; George Burin, KD8YFN; Richard Craig, KD8YMH; Christan Craig, KD8YMG; Candy Davis, KD8YMZ; Mark Stein, KD8YML; Mike Stein, KD8YMK; Steve Cannon, KD8YMF; David Shears, KD8YMJ. Rebecca Davis, KD8FOL got her General, having passed her Tech just two weeks earlier. When you see these new Hams, congratulate them on their achievement.

Special Thanks to our hard-working VEs; Al Avnet, AB8AA contact VE for the W5YI Test session; Dave Beatty, KC8WY; Pete Finamore, N8XOE; Jane Avnet, K8JAA.

NEW GENERAL CLASS



What a wonderful surprise! Our General has 18 students. Three of whom are planning on passing both their Tech. and General test at our next test session, June 18. Most of the others just passed their Tech. class licenses at the special May test session we just had. It is so encouraging seeing so many folks interested in upgrading..

THOUGHTS ON BEING AN ELMER

. . . I was wondering if you had an Elmer in your early Ham Radio experiences. I have had a couple and if not for them, I would not be writing this column. These fellow Hams pointed me in the right directions. Helped me in making choices on which radio to get at first, what to look for in antennas, and what to stay away from, if at all possible. I like to buy new things like all Hams . . .

First of all, Elmers have to be good listeners. Finding out what the person is into. Some examples are: is he or she a leader; a fixer (some call this tinkering); have specialized interests, such as: weather; boats; digital radio; remote cars; robotics; Emergency Responding? Perhaps being able to talk to the space station, or moon bounce signals around the world. Elmers can help the new-bee in these tasks, and a lot, lot more.

My personal experiences lead me into Dxing; Emergency Communications, with our city's Cert Program (Huntington beach); the American Red Cross, along with Huntington Beach Races. My thanks to my friends, and the West Coast Amateur Radio Club members and their board members for all they do. My point is, take the time to listen to those new Hams around us. Give them a helping hand, if need be. Over time, we become the Elmer's. We need to pass on our knowledge of, and our passions of, Ham Radio to the new-bees of this generation of Hams. . . .

73 to all, and to all a good night. Joe Tom, KB6JOE

Taken in part from the May, 2014 Intermod - Dick Bruno, N6ISY, editor
"Progress is man's ability to complicate simplicity". Thor Heyerdahl

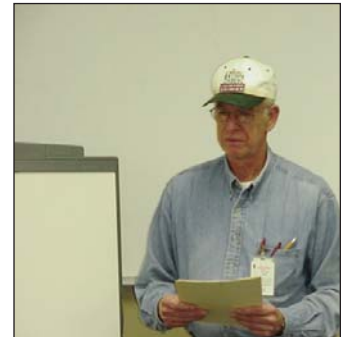


VOLUNTEER TO HELP
JULY 11 & 12

WHAT I SEE

Well after being at Dayton Hamvention and talking to members of other clubs, it appears we are doing some things right. However there are a lot of things that we should be doing to improve the club. The biggest thing is the membership needs to get more involved in the club activities. There are never enough people at each event to get everything done to the best of our abilities. The new Hams need to ask for help, and the seasoned Hams need to step up and help the new ones.

The BIG thing is what do you want to learn about? Is it antennas, digital, emergencies, contesting, rag chewing, or ??????. The Elmers are here to help any of you out all you have to do is ask. We have an Elmers net after the club net on Friday evenings. Check into the net and stay around for the Elmers net. Ask those questions that have you wondering " how do I do that". You cannot get help if you do not ask for it. The quote, " The only dumb question is the one that is not asked" , applies to anyone out there with a question. I have been a Ham for over 60 years and still do not know it all. There are a lot of things to do and one of you can do it. Think about it.



73 Allan, AB8AA



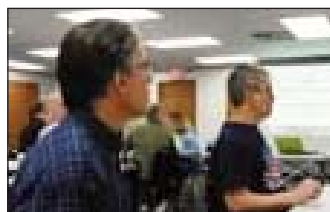
LOCAL ARES

May was another busy month for Amateur Radio Emergency Services. At the request of Mahoning County EMA, over 35 ARES members participated in a day long Damage Assessment Planning course on May 10. The course was limited mostly to those with NIMS certification, and a few public service representatives from across the state. A few attendees drove several hours to attend this special program, and one from near Cincinnati.

There are several public service events in June. ARES members should try and assist with such events, not only to learn and train, but to get acquainted with other operators locally. When there is an emergency we will all be working together so it's a good idea to get to know each other better.

We are still updating the "Call Tree" and plan a test of the same in the near future. Also building a "TEXT TREE" for notifications of ARES members and we will also be testing that mode.

Monthly ARES nets are the First and Third Mondays, at 8:30 P.M., on the 146.745 repeater. Trumbull ARES has nets every Sunday evening at 8:30pm on 146.970. Mahoning County's SKYWARN nets are on 146.745, monthly on the First Wed at 8:30 P.M.



VOLUNTEERS NEEDED TO HELP WITH
BIENNIAL CIVIL WAR REENACTMENT
TO COMMEMORATE THE 150TH ANNIVERSARY OF THE CIVIL WAR

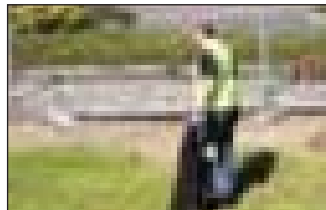
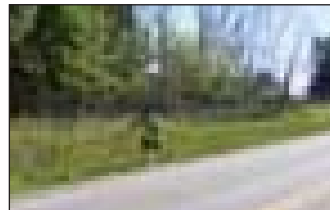
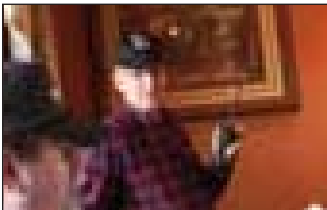
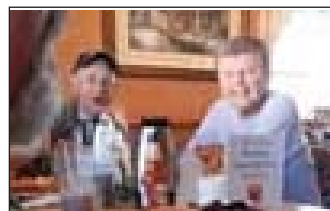
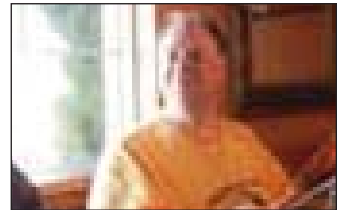
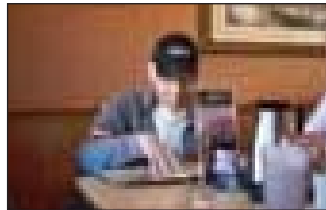
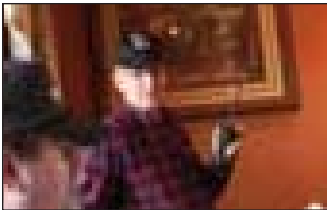
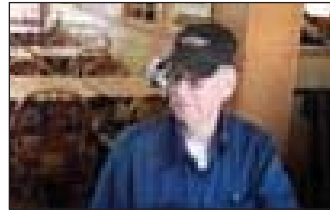
JULY 26-27, 2014
ARGUS PARK, 5050 SHIELDS RD. CANFIELD

CONTACT JIM SECKINGER, KC8HSD, AT 330-726-3722 TO VOLUNTEER

THANK YOU FOR YOUR HELP

May 24, 2014 - A few of us worked together to do WRARC's Community Service Project. We met at nine A.M. at Perkins in Canfield for breakfast, before heading out to do our semiannual road clean up on SR 446. It was KD8IJF's birthday and he celebrated by getting rear ended by a driver who wasn't paying attention. It didn't look like his truck sustained much damage, but those things can be hard to tell. Roy wasn't hurt, which is a good thing.

Roy, KD8IJF; Al, AB8AA; Chris, KD8ELY; Darrin, N8DMC; Cory, KD8STJ; Nina DePietro; Stan, KB3WPD; Brian, AB8BL; and Harry, KD8PQK all worked to do the clean up, while Russ NR8W and Jane K8JAA shuttled Hams out & in, monitored the radio, and brought additional trash bags when needed to those hard-working Hams. Thanks to all of you for taking a couple hours out of your Memorial Day weekend to help.



ODOT provided the trash bags and the safety vests. ODOT was scheduled to pick up the filled trash bags which we left by the side of the road.

FIELD DAY HISTORY (CREDIT: DECEMBER 1999 QST)

Field Day will soon be here, June 28 and 29. I thought I would write a bit about how Field Day began. In 1933, The June 1933 QST announced that the second Saturday in June, for a period of 27 hours, starting at 4:00 p.m. local time, those hams would go into the "field" and set up portable stations. W1BDI F.E. Handy said: "The real object of this contest is to test 'portables' wherever they may be available.~. If successful, we want to make it an annual affair."

The scoring of that first contest was each QSO with fixed stations will count 1 point, contacts with other portables count 2 points and DX contacts count 3 points. Multiply QSO points by the total number of ARRL sections, plus countries worked

September 1933 QST announced the winner of the 1st Annual Field Day was W4PAW. They made 62 QSOs and had 28 sections for a total of 1876 points.

1934 Field Day #2 is announced.

1936 Field Day was so popular that a second Field Day was held August 22-23 of that year. The highest QSO total for June was 143 and the highest QSO total for August was 136.

1937 Field day #5 is announced for June 19-20. The FD message bonus was added. The winning QSO for this FD was 204 QSO's at a rate of 7.5 QSO's/hr.

1938 Field Day period goes from 4:00 p.m. Saturday Local time to 6:00 p.m. Sunday Local

1939 The first rule to include all station apparatus must fall within a 100 ft. radius excluding antennas.

1940 The 100' rule is changed to 500'. Home stations are allowed to work FD.

1941 The ARRL inadvertently forces a nationwide start time by notifying the FCC of the Field day period and the FCC communication 73-D references a single start time for all ham stations for Field Day from 4:00 p.m. EST June 7 to 6:00 p.m. EST June 8.

1942-1945 - All Ham activity ceases. A little thing called WWII.

1946 Field day returns and adds a VHF only category

1948 11 meters (now the CB band) is added for a Field Day Band. FD is shortened to 24 hrs. Battery and Emergency power categories are added.

1949 A Mobile category added to FD.

1950 The modern day FD classes are established. The circle is increased to 1000'

1951 To encourage home emergency power, a home emergency power class is added Class D while hostations off power mains are class E.

1957 Simultaneous starts return, starts 4:00 p.m. EST and ends 4:00 p.m. PST the next day. Anyone can operate 24 of the 27 operating period. 10,000th ham participates.

1963 ARRL rules that a FD site can only use one call sign.

1968 Setup within the 27 hr. period is mandatory and the start time is moved to 1900z. All home stations are moved to Class D.

1969 The setup rule is hugely unpopular so ARRL changes the rule so that if you wait to set up you can operate the whole 27 hrs. , otherwise you can only operate 24 hrs. of th

1970 A free Novice station is allowed. Starting time is moved to 1800z.

1972 Battery results are listed separately.

1973 Repeater rule is waived for satellite contacts and a 50 point sat bonus is included for the first time.

1974 A 100 point bonus is added for making contacts solely by natural power. 15 minutes rule for band changes is instituted.

1975 The Explosion of SSB leads the ARRL to institute a 2X multiplier for CW contacts.

1976 10,000 qso mark is broken by W1VV/1

1977 The natural power bonus disappears and techs are now allowed to operate the Novice station. The 2X CW rule becomes permanent.

1980 RST is replaced with category and class for the exchange. Setup time is changed again; nothing can be set up before the 24 hr. period. Natural power comes back as a 100 point bonus. Sat and FD message bonuses increase to 100 points.

1981 Due to the popularity of packet radio, a 100 point bonus is instituted for one packet QSO and the repeater rules are waived for QSO's through a digipeater. The Yankee Clipper Contest Club W2RQ turns in an impressive 11,201 QSO total for Field Day.

1984 Power multiplier is changed from 200 watts to anything less than 150 watts.

1993 Due to the influx of Technicians, a 100 point bonus is added for making 10 VHF/UHF contacts and a free VHF/UHF station is allowed class A and B.

Continued page 11

FD HISTORY - CONTINUED FROM PAGE 10

1994 he modern FD record is set by K6CAB 15A by getting 3450 QRP QSO's for a total score of 30,150
 1998 Free packet station and bonus are eliminated, but RTTY/PSK31 is added as a 3rd FD mode. The 100 point bonus for VHF/UHF stations is deleted.

So that is the history of Field Day. We've come a long way Baby! Credit: December 1999 QST. I would continue but you get the idea, this is our Month to shine with the changing times digital the use of computers, smaller and better new products to help us contact each other. Wonderful new antennas are smaller and lighter so we can go mobile. All in all Ham Radio is just getting better and better.

Stolen from WCARC's June issue of the INTERMOD, researched by Joe Tom K6JOE

MORE ON WRARC FIELD DAY

It's now June and Field Day is almost here. Here are some reminders about what to bring for the day. First of all, anyone planning to camp out should contact Steve KC8SOY at 330-774-6346 and anyone planning to operate should contact Chris KC8ELY at 330-507-9567 regarding what band you would like to work and for any antenna or generator needs you might have. Anyone still needing to sign up for what food item you will bring for the Sat. dinner and for the number in your party, can contact me, Maureen KD8NXS, at 330-757-4963 or sign up on the list at the next meeting on June 10.



Other things to bring for the day are hats or sun visors, sun screen, sun glasses, spray insect repellent to apply at dusk, a folding chair for each member of your party, a good flashlight or camping lantern to use to move about the grounds at night, and heavy duty, long outdoor extension cords for equipment. You may want to bring some basic first aid items in case of any cuts or other minor injuries, although we hope that nothing like this will happen to anyone. I will also have some basic first aid supplies available that anyone who needs them can use. If you are planning to be there for long periods of time, you will need to have plenty of water to drink throughout the day, particularly if it is very hot that day. There will be bottled water on ice for the Sat. meal, but you will need to bring some from home for during the day. You may want to bring some rain gear for just in case. We remain hopeful that it won't be needed.

There are also some basic things to keep in mind. The first thing is the handling of food prior to the Sat. evening meal time which is at about 6:00 P.M. If you are attending for the earlier part of the day, your food item will need to be kept at its proper temperature to prevent any food borne illness. Cold items that need to sit for most of the day need to be packed in a good cooler with the contents of the serving container completely surrounded by ice. That way, if it is very hot that day, they will keep at a temperature where bacteria won't grow. Hot items should stay hot in something like a crockpot or electric roaster for the earlier part of the day. Please let us know if you are bringing one of these so we can figure out how many outlets are needed. To the best of my knowledge, no one has ever gone home sick and that is a great thing! Remember, the club provides the hamburgers and hot dogs as well as the paper goods, cutlery, and drinks. That is why we need a count of how many will be there for dinner.

In addition, we are always very careful about garbage control. The noise and activity may be enough to keep animals out of our area, but it is not an absolute guarantee. Therefore, we are careful not to let the ground get littered with dropped food and/or trash. We will have plenty of large trash bags there to put it all in and those of us who go home at night will take filled bags with us to dispose of them at home.

I don't want to sound like I am preaching to all of you, but we just want everyone to be safe and well and to enjoy the day. If you haven't operated at Field Day before, it's not a bad idea to spend some time with another ham who has done this before so that you can "learn the ropes." We will likely have a GOTA station as well for visitors who are not licensed to see what it is all about. Remember to put your name on all items that you bring. Most of all, come planning to enjoy this day. We always eat well and the company is great! I'll leave you with two more things.

Continued page 12

MORE ON FD - CONTINUED FROM PAGE 11

There will be a porta-potty with a makeshift hand washing station and hand sanitizer available. There are also some nearby gas stations/convenience stores for real, actual restrooms if you prefer to do that. If needed, extra ice can be purchased there as well. Don't forget to stop and sign in at the entrance when you arrive. Hope to see you all there! Enjoy the day!

Maureen KD8NXS

OHIO ANTENNA LAW CHALLENGE MAY BE OVER

05/28/2014 - In a surprise move, the Ohio Sixth District Court of Appeals has dismissed an appeal from the Village of Swanton, Ohio, in an Amateur Radio antenna zoning case. The ARRL had announced plans to file a "friend of the court" or amicus curiae brief on behalf of ARRL Life Member Gary Wodtke, WW8N,



who has been trying since 2009 to erect a 60 foot antenna support structure on his 0.2 acre residential lot. It now appears that he will be able to do so. The Village of Swanton, Ohio, has established a fixed antenna height of 20 feet above the residential roofline, and it turned down Wodtke's antenna variance application for the taller structure. On appeal, Wodtke in January won a final judgment in his favor in the Fulton County Common Pleas Court. The court ruled that federal and state law preempted Swanton's antenna ordinance.

The Appeals Court ruling on April 3 was based on the fact that the trial court decision the Village could have appealed was issued on August 20, 2013, while the judgment that the Village attempted to appeal was issued on January 21, 2014. Since the August 20 trial court decision was a final order, the Village was required to file its appeal within 30 days, and it never did so, thus losing its right to appeal. The ruling means that the August 20 trial court decision stands, and Wodtke wins the right to erect the tower for which he applied.

Read the entire article <http://www.arrl.org/news/view/ohio-antenna-law-challenge-may-be-over>

PETITION TO EXPAND RFID USE ON 70 CENTIMETERS WITHDRAWN



The FCC has dismissed without prejudice a Petition for Rule Making (RM-11651) by Lockheed Martin that would have amended the Commission's Part 15 rules to expand deployment of the company's radio frequency identification (RFID) system in the 433 MHz band (433.5-434.5 MHz). Lockheed Martin sold its RFID business 2 years ago, but the company only this month requested that the Petition be withdrawn and the proceeding terminated. The ARRL had staunchly opposed the Lockheed Martin petition, which the firm filed on behalf of its subsidiary, Savi Technology. The League locked horns with Savi years ago, when the company successfully petitioned the FCC to amend, in 2004, its Part 15 rules governing periodic radiators to permit high-power, near-continuous duty RFID tags in the 433 MHz band. As a concession to opponents, the FCC limited deployment of the devices to "commercial and industrial areas" and allowed their use only for tracking "commercial shipping containers." Lockheed Martin acquired Savi Technologies in 2006.

The now-dismissed petition would have expanded the frequency range of the RFID tags to 433.05-434.79 MHz, required listen-before-transmit protocols to avoid interference to Amateur Radio, eliminated a manufacturer registration requirement, and dropped rules that prohibited deploying the devices outside "commercial or industrial areas" and limited their application to "commercial shipping containers."

The ARRL filed vigorous opposition to the Lockheed Martin Petition in January 2012, saying that Lockheed's petition "seeks to undo virtually all of the few interference protections" the FCC had adopted *Continued page 13*

FCC - CONTINUED FROM PAGE 12

in 2004, "solely on the basis of vaguely stated advances in RFID technology." Other Part 15 device manufacturers also opposed any expansion of the high-power application.

A May 14 Commission letter from FCC Office of Engineering and Technology Chief Julius P. Knapp said that on the basis of Lockheed Martin's Petition and the comments filed on it, "we do not find sufficient basis to propose rules," and determined that the original petition "does not warrant" FCC consideration. Knapp added, however, "Any party interested in pursuing changes to the rules for RFID operations in the 433 MHz band may file a new petition."

HAM RADIO: OLD TECHNOLOGY GETS NEW RESPECT

By Jonathan Serrie
Published May 19, 2014
FoxNews.com

ATLANTA – Seeking reliable backup communication in a crisis, emergency managers are finding new solutions in an old technology: ham radio. "It's just another avenue, another opportunity for us to be able to communicate," said Herb Schraufnagel, public safety captain with Emory University Hospital Midtown.

Emory HealthCare is among a growing number of hospital systems to adopt ham radio. Hospital administrators and government officials took a lesson from Hurricane Katrina, which left some Gulf Coast medical centers isolated from the outside world, as landlines and cell towers failed.

When power, phone and Internet services go down, a battery-powered amateur radio and portable antenna can provide that crucial link to the outside world.

"Ham radio will never die," said Barry Thomas, Sr., a ham radio enthusiast and employee at Emory University Hospital Midtown. "The quickest means of communication is Morse Code. It'll get out when none of this will," Thomas said, referring to a room filled with computers and smart phones.'

"It is interesting that some of the technology that has been around for 80, 90, 100 years is still relevant," said John Davis, a ham radio enthusiast. In addition to major hurricanes, Davis says the terrorist attacks of September 11, 2001 rekindled interest in ham radio as a public safety tool.

The Georgia Emergency Management Agency (GEMA) has set up a permanent ham radio station in its command center. "We look at ham radio operators just like GEMA staff, just like DOT staff and Georgia State Patrol staff," said GEMA Director Charlie English. "They are a critical partner with us."

The number of ham radio licenses is at an all-time high in the U.S. (723,182, as of April, according to Federal Communications Commission (FCC) data compiled by Joe Speroni of the Amateur Radio Education Web Site, ah0a.org. "I really hope that it stays relevant and that we can be a resource to emergency management agencies," enthusiast Davis said. "Because I think that is where ham radio shines."

Fox News producer David Lewkowict contributed to this article. Jonathan Serrie joined Fox News Channel (FNC) in April 1999 and currently serves as a correspondent based in the Atlanta bureau.

www.foxnews.com/tech/2014/05/19/ham-radio-old-technology-gets-new-respect/?intcmp=features

"To every man, there comes in his lifetime, that special moment, when he is physically tapped on the shoulder and offered the chance to do a very special thing, unique to him and fitted to his talent; what a tragedy if that moment finds him unprepared or unqualified for the work which would be his finest hour."

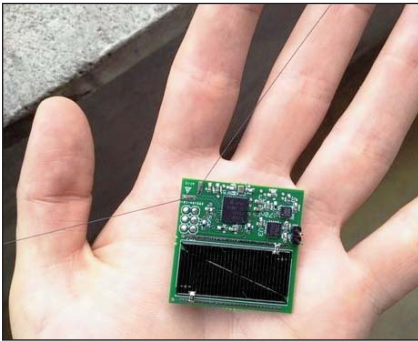
Those words spoken by Winston Churchill over 70 years ago are very appropriate for all Americans.

WARNING

Take care when working around your Ham equipment. This unfortunate Ham fell to his death while working on one of his antennas.

ARRL Volunteer, DXer James H. "Jim" Abercrombie Jr, N4JA, SK - Jim Abercrombie of Enoree, South Carolina, died May 14. He was 76. According to Charles Pennington, K4GK, Abercrombie was fatally injured as the result of a fall from his Amateur Radio tower. Abercrombie was a serious DXer with 340 current DXCC entities confirmed (mixed). He served briefly in 1972 as the ARRL Section Communications Manager (now Section Manager) for South Carolina, and he was an ARRL Technical Specialist from 1995 until 2005. He was the author of Understanding Antennas for the Non-Technical Ham, <<http://www.hamuniverse.com/n4jaantennabook.html>>. Arrangements are pending. -- Thanks to The Daily DX <<http://www.dailydx.com/>> and Charles Pennington, K4GK

FUNcube-2 LAUNCH SET FOR JUNE 19



Sponsors of the FUNcube Project -- a joint initiative of AMSAT-UK and AMSAT-NL (Netherlands) -- have announced that FUNcube 2 will launch from Russia on June 19. The initial plan of the now 4-year-old project was to design, build, and launch a single spacecraft. As further flight opportunities have become available over the past months, however, the FUNcube Project has expanded. UKube-1 will "host" FUNcube-2 -- actually a set of FUNcube boards that will fly as a sub-system of the 3U UKube-1 CubeSat. Its goals are identical to those of FUNcube-1 -- to support science, technology, engineering, and mathematics (STEM) initiatives now underway in the US, the UK, and elsewhere. The target audience is primary and secondary school students.

"It is believed that, immediately after deployment and activation, UKube-1 will commence transmitting a CW beacon, and that this will be later followed by an AX25, 1k2 BPSK beacon," AMSAT-UK announced on May 7. "Both beacons will be on 145.840 MHz. The FUNcube-2 payload, with its telemetry downlink for educational outreach, is expected to be tested later."

FUNcube-2 will include a 400 mW inverting SSB/CW transponder (435.080-435.060 MHz up/145.930-145.950 MHz down), with a beacon on 145.915 MHz. The UKube-1 satellite, being built by Clyde Space in Glasgow, Scotland, would be the UK Space Agency's first CubeSat, as well as the first satellite built in Scotland.

Believed to be not too far down the road, a FUNcube-3 400 mW transponder-only payload on the pre-cursor QB50P1 CubeSat host is planned for launch "no earlier than the second half of June" on a Dnepr LV vehicle from Russia. Initial beacon signals from the main transceiver are expected to be AX25, 1k2 BPSK packets on 145.815 MHz. Read more. <<http://www.arrl.org/news/funcube-2-launch-set-for-june-19>>

Once it's operational, FUNcube-2 will include a 400 mW inverting SSB/CW transponder (435.080-435.060 MHz up/145.930-145.950 MHz down), with a beacon on 145.915 MHz. The UKube-1 satellite, being built by Clyde Space in Glasgow, Scotland, would be the UK Space Agency's first CubeSat, as well as the first satellite built in Scotland.

FUNcube-1 (AO-73), an educational 1U (10 × 10 × 10 cm) CubeSat with the goal of enthusing and educating young people about radio, space, physics, and electronics, went into space last September. The satellite is performing well, and more than 500 stations around the world are receiving and decoding the telemetry, with many schools involved. FUNcube-1 is the smallest satellite ever to carry an Amateur Radio linear transponder — a 300 mW inverting SSB/CW type (435.150-435.130 MHz up/145.950-145.970 MHz down). The transponder has been switched on during weekends, and it is operational when the satellite is in eclipse. The telemetry is on 145.935 MHz (BPSK). The transmitter power also is 300 mW, but it operates only when the satellite is in sunlight.

A FUNcube guide developed by ARRL Education & Technology Program (ETP) Director Mark Spencer, WA8SME, aims to maximize the educational focus of the tiny AO-73 satellite. Spencer's Pragmatic Guide for Using the FUNcube (AO-73) Materials Science Experiment in the Classroom prompts readers *Continued page 15*

FUNcUBE - CONTINUED FROM PAGE 14

to dig beyond AO-73's Amateur Radio transponder and telemetry uploads and downloads and "take a closer look at what is really going on" as the satellite orbits Earth.

The receiver, the FUNcube dongle, connects to the USB port of a laptop to display telemetry and messages "in a visually interesting and stimulating way," AMSAT-UK said. The satellites also carry a materials science experiment, from which students can receive telemetry to compare with results obtained from similar reference experiments in the classroom.

In addition to FUNcube-3, still in the wings is FUNcube-4, a payload on the ESEO microsat mission. ESEO incorporates experimental payloads from a number of universities around Europe. FUNcube-4 will provide similar telemetry to its predecessors but with a more powerful transmitter. The ESEO project is being funded by the European Space Agency (ESA) Education Office.

The FUNcube Project has been partially funded by a not-for-profit, The Radio Communications Foundation, set up to fund efforts that bring radio communication into classrooms and to "any other public place where hands-on demonstration can influence understanding."



Alpha and TEN-TEC to Merge Under RF Concepts Banner

Two major American Amateur Radio manufacturers are joining forces. Alpha Amplifiers and TEN-TEC have announced that they will merge under the RF Concepts brand. The announcement came May 9 in Longmont, Colorado, where RF Concepts and Alpha are headquartered. TEN-TEC, the older of the two concerns, is

located in Sevierville, Tennessee. The merger creates a multi-million-dollar company with a product line that extends from QRP transceivers to legal-limit amplifiers. RF Concepts/Alpha Amplifiers has been in business since the early 1970s and has produced more than 13,000 amps. TEN-TEC, founded in 1968 as a maker of transceivers for the QRP community, has expanded its line over the years to include a range of transceivers -- from basic to top-tier -- receivers, tuners, amplifiers, and accessories. While there is a small overlap in the companies' respective product lines, RF Concepts Chairman Michael Seedman, AA6DY, called the union "the perfect combination of Amateur Radio brands."

"For more than 40 years, Alpha Amplifiers and TEN-TEC have shared a reputation in the Amateur Radio market for offering exceptionally well-engineered, American-made products backed by extraordinary customer service," said Seedman. "Alpha Amplifiers is known for 'key-down performance,' and TEN-TEC is known for pushing the boundaries of transceiver performance and capabilities." Such a merger "makes perfect sense," he added, pointing out that the merger will more than double the size of RF Concepts, allowing it "to invest more capital in innovative engineering and customer-driven product development."

Plans call for RF Concepts to share operations between its Colorado and Tennessee locations, and the company is looking for a new operations facility in the Sevierville area that would house manufacturing as well as some engineering resources as well as technical and customer support services. TEN-TEC had announced that it would not be holding its annual hamfest in Tennessee this year, due to plans to relocate its headquarters this fall. TEN-TEC announced "a massive moving sale" during September. The Colorado facility will house engineering resources, technical and customer support services, and much of the front-office operation.

Announcement of the merger came a week before Dayton Hamvention®, where both Alpha and TEN-TEC will continue to operate separate booths. Alpha will be demonstrating its not-yet-released DreamTuner 4040 Automatic Antenna Tuner, while TEN-TEC will unveil the Patriot, an open-source, Arduino-based SSB transceiver.

The two companies are privately held, and terms of the merger were not disclosed. Read more. <<http://www.arrl.org/news/alpha-and-ten-tec-to-merge-under-rf-concepts-banner>>

BOY, DO I GET EMAILS!

Neon & Old Fords Check out The Dingman Collection 2012 - YouTube

<http://www.youtube.com/embed/6IYISQ6DVwk>

Three Pastors from the south were having lunch in a diner. One said, "Ya know, since summer started I've been having trouble with bats in my loft and attic at church. I've tried everything - noise, spray, cats - nothing seems to scare them away.

Another said, "Yea, me too. "I've got hundreds living in my belfry and in the attic. I've even had the place fumigated, and they won't go away."

The third said, "I baptized all mine, and made them members of the church. . . . haven't seen one back since!

As usual I had NPR's "All Things Considered" playing in the background this afternoon (May 26), but it quickly moved to foreground when I heard the intro to a story about the 100th anniversary of the ARRL. It was a great story, and among others, featuring Sean Kutzko, KX9X. Well done! Link:

<http://www.npr.org/2014/05/26/316110359/celebrating-100-years-of-ham-radio>

05/26 - My New Favorite Social Network Is Ham Radio the Business Insider ?- by Dylan Love ?- 3 days ago Well before the days of the tweet and the status update, people communicated with each other over sweeping distances by quite literally ... <http://www.businessinsider.com/social-network-ham-radio-2014-5>

John, KD8MQ

"Opportunity is missed by most people because it is dressed in overalls and looks like work."

Thomas A. Edison

TODAY IS THE OLDEST YOU'VE EVER BEEN, YET THE YOUNGEST YOU'LL EVER BE, SO ENJOY THIS DAY WHILE IT LASTS - HAVE SOME ICE CREAM!

Really interesting!! Lots of us don't know what day of the week we were born. This will answer it.

We have been on this earth many, many weeks and days. Your Age in days. <http://korn19.ch/coding/days.php>

THESE ARE ENTRIES TO A WASHINGTON POST COMPETITION ASKING FOR A TWO-LINE RHYME WITH THE MOST ROMANTIC FIRST LINE, AND THE LEAST ROMANTIC SECOND LINE:

1. My darling, my lover, my beautiful wife,
marrying you has screwed up my life.

8. I love your smile, your face, and your eyes,
Damn, I'm good at telling lies!

2. I see your face when I am dreaming,
that's why I always wake up screaming.

9. My love, you take my breath away,
What have you stepped in to smell this way?

3. Kind, intelligent, loving and hot,
this describes everything you are not.

10. What inspired this amorous rhyme?
two parts vodka, one part lime.

4. Love may be beautiful, love may be bliss,
but I only slept with you 'cause I was pissed.

WHO SAID POETRY IS BORING?

5. I thought that I could love no other,
that is until I met your brother.

6. Roses are red, violets are blue,
sugar is sweet, and so are you,
but the roses are wilting, the violets are dead,
the sugar bowl's empty and so is your head.



7. I want to feel your sweet embrace,
but don't take that paper bag off your face.





June 2014



1	2	3 Board Meeting Eat'n Park Boardman 7:00 P.M	4 Skywarn Net 8:30 P.M. 146.745	5	6 WRARC Net 9:00PM 145.270 Elmers Net right after	7
8	9 ARES Net 8:30 PM 146.745 PL 110.9	10 Ham Breakfast Eat'n Park Boardman 8:30 A.M. WRARC Meeting 7:00P.M	11	12	13 WRARC Net 9:00PM 145.270 Elmers Net right after	14
15	16 Happy Birthday AB8AA 	17 Road Trip to K3LR	18 	19	20 WRARC Net 9:00PM 145.270 Elmers Net right after	21 First day of Summer 
22	23 ARES Net 8:30 PM 146.745 PL 110.9 Happy Birthday KD8TIH 	24 Eat'n Park Boardman 8:30 A.M. Ham Community Breakfast	25	26  WaveBender Articles Due	27 Set up for Field Day WRARC Net 9:00PM 145.270 Elmers Net right after	28 Field Day 
29 Field Day 	30	7/1	7/2	7/3	7/4 WRARC Net 9:00PM 145.270 Elmers Net right after 	7/5