



Waveguide

W8LAP / r
146.620 - 100 Hz
442.750 + 123 Hz

Lapeer County Amateur Radio Association
Club Founder: Hollis Hayes W8ACD

Edition for June 2012

****The next regular club meeting will be held on
Tuesday, June 12th, 2012 @ 7:30 pm****

ARES Net

Every Tuesday at 8:00 pm on 146.620 - with 100 Hz PL
(except club meeting nights)

Thursday Night Net

Every Thursday at 8:00 pm on 442.750 + with 123 Hz PL

Meetings

LCARA meetings are held the second Tuesday of each month in the Lapeer County Central Dispatch Center (911), 2332 W. Genesee St., Lapeer, MI at 7:30 pm

Newsletter

Items for the newsletter may be called in to the editor at 810-793-4986 or emailed to kevinboxey@hotmail.com. The deadline for submission is the 20th of each month.

Website: <http://www.w8lap.com>

Facebook: Lapeer County Amateur Radio Association

Editorial Section

The President Sez:

Hello everyone. GCRC is gracious enough to allow LCARA members to crash their field day activities this year since our participation in this county has historically been low. I attended their meeting on Tuesday, May 15th to find out more about the field day activities they have planned. It sounds like all of the radio positions are filled (equipment wise) but there may be other pieces of the puzzle that could be used like coax, antennas, generator etc. If you are interested in attending please contact me and I will forward your name and planned activity to them (times you would attend and what you would like to operate for example). The field day location is actually in Lapeer County (along the western edge) and there is a map later in this Waveguide.

Also, please review the community service calendar and support these events if possible. We are still looking for operators for both events in June.

See you at the meeting.

Kevin KB8TAR

The VP / EC Sez:

First let me say thanks to all who assisted with the events in April. We donated 800+ man-hours to our county with a total of almost \$19,000 "in kind" donation. Great job. NOTE, in addition to the Genesee Field Day location listed by Kevin there'll be another setup in Otter Lake approx 1/2 block from the park entrance. Feel free to stop by either location. Personally I'll be in Otter Lake. Also thank you to everyone who assisted with Op. Care. 73, see y'all at the meeting on the 12th.

Tom KD8EBY

The Treasurer Sez:

Greetings to one and all. The treasury this last month has not had any major expenses, the only thing out of the ordinary was having to pay two electric bills in the month of May. That does happen once in a while do the short length of the billing cycle. Otherwise there has been no unusual expenses.

I want everyone to be aware that Operation Care Memorial Day is coming. It is a major supplement to our treasury, so please help out. For those that have never tried it, you will be pleasantly surprised how much fun it is. Contact Tom Oliver KD8EBY to sign up for a slot to help.

I hope that everyone is enjoying our great weather like I am, it is going to be a great time to get the OpCare trailer out and prepare it for the upcoming outing.
Best wishes and 73

William Miller KD8VP Treasurer

Editorial Section

The Repeater Trustee Sez:

The repeater seems to be fine from reports I received from Tom KD8EBY and Bill KD8VP. Bill mowed the lawn and checked out everything. Details below: but first: Health Status: I'm still in Flint taking a vacation so that my wife can get some rest after my surgery over the last couple weeks. I should be back in Lapeer late next week after my follow-up Dr's appointments and some family time with the wife's relatives.

Here's what my medical situation was and is now: At a routine bi-annual cardiac check-up and stress test two blocked arteries were found no pain, no heart attack, no damage. I had an angioplasty on June 2 and decided with my Cardiologist the a double by-pass was a better long range decision than stents, *worked the Genesee County Skywarn flood event June 3rd that night from a motel room in Grand Blanc*, had my pre-operation testing done on Friday June 4th and came home to mow the lawn and pack for the long term. Bypass surgery was scheduled for June 8th to be at the hospital @ 5:30 AM surgery @ 8:00 AM successfully completed at 12:30 PM. Two days in the ICU/ACU and then in Cardiac Care/ Rehab unit until Tuesday the 15th. The trip to the motel was an **eye opener**, **I now fully understand why I'm not driving for at least two more weeks and not riding in the front seat with air bags!! I've got to find the mule that kicked me in the chest!!!**

The current plan is to be home sometime next week and meeting with Bill KD8VP and possibly Perry from North Branch to get some hands on training on the Repeater and Controllers. I've had time to study the set-up which we have and some options for the future. I'm looking forward to being up to speed on the current setup in the next month or so and then to present some options for the future including but not limited to: internet linking, possible adjacent county linking, improved ARES/RACES/SKYWARN coordination in Region 3. It's a plate full for now but if I've got to be laid-up for 5-6 weeks it will keep me from getting more bored!

Thanks for your gracious thoughts and contacts.

Joe Medved, KD8CIL
AEC Communications

The Secretary Sez:

The meeting was called to order at 7:30 with the Pledge of Allegiance to the Flag and introduction of members and guest. Joe, KD8CIL is in the hospital. The Secretary report was given by Flo, KC8CAB. The report was accepted by Tom, KD8EOA and seconded by Dan, KC1BUD. The Treasurers report was given by Bill, KD8VP. The report was accepted by Tom, KD8EOA and seconded by Dan, KC1BUD. The Trustees report was given by Bill, KD8VP, as Joe, KD8CIL was in the hospital. Bill, KD8VP said the Operation Care is on the repeater. The report was accepted by Tom, KD8EOA and seconded by Dan, KC1BUD. We are in need of more net control operators. Break was from 7:55 to 8:15. A motion was made by Mike, KN8Z and seconded by Tom, KD8EOA to drop the Christmas Party from the constitution. A vote on the Christmas Party will be made every year instead. 50/50 was won by Mike, KN8Z. A motion was made by Jamie, KC8PMW to close the meeting at 8:45.

Flo KC8CAB

2012 2012 2012 2012 2012 2012 2012 2012 2012

June						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2 LTZ at 1:00 pm Beatty-Daley Challenge (5k)
3 D3 net 145.31+131.8 Hz PL at 6:30 pm SWAP - Chelsea, MI	4	5 ARES net 146.620+ 100 Hz PL at 8 pm	6	7 ARES net 442.750+ 123 Hz PL at 8 pm	8	9 -GCRC Field Day planning meeting at 9:00 am,
10 Big Fish Triathlon Ortonville D3 net 145.31+131.8 Hz PL at 6:30 pm	11	12 LCARA club meeting 7:30 pm	13	14 ARES net 442.750+ 123 Hz PL at 8 pm	15	16 SWAP - Midland, MI -T&C at TBD on M-24 -GCRC testing 9:30 am @ Baker College room S-103 -GCRC Field Day setup at 9:00 am
17 D3 net 145.31+131.8 Hz PL at 6:30 pm SWAP - Monroe, MI	18	19 ARES net 146.620+ 100 Hz PL at 8 pm	20	21 ARES net 442.750+ 123 Hz PL at 8 pm	22	23 GCRC FIELD DAY
24 GCRC FIELD DAY D3 net 145.31+131.8 Hz PL at 6:30 pm	25	26 ARES net 146.620+ 100 Hz PL at 8 pm	27	28 ARES net 442.750+ 123 Hz PL at 8 pm	29	30
Phases of the moon: 4:☉ 11:☾ 19:☀ 26:☾						
Holidays and Observances: 17: Father's Day						

July						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1 D3 net 145.31+131.8 Hz PL at 6:30 pm	2	3 ARES net 146.620+ 100 Hz PL at 8 pm	4 	5  ARES net 442.750+ 123 Hz PL at 8 pm	6 	7  LTZ at 1:00 pm
8  D3 net 145.31+131.8 Hz PL at 6:30 pm	9	10 LCARA club meeting 7:30 pm	11	12 ARES net 442.750+ 123 Hz PL at 8 pm	13	14
15 Tri for Life Triathlon Otter Lake D3 net 145.31+131.8 Hz PL at 6:30 pm	16	17 ARES net 146.620+ 100 Hz PL at 8 pm	18	19 ARES net 442.750+ 123 Hz PL at 8 pm	20	21 T&C at TBD on M-24
22 D3 net 145.31+131.8 Hz PL at 6:30 pm	23	24 ARES net 146.620+ 100 Hz PL at 8 pm	25	26 ARES net 442.750+ 123 Hz PL at 8 pm	27	28 SWAP - Lansing, MI
29 D3 net 145.31+131.8 Hz PL at 6:30 pm	30	31 ARES net 146.620+ 100 Hz PL at 8 pm				
Phases of the moon: 3:☉ 10:☾ 19:☀ 26:☾						
Holidays and Observances: 4: Independence Day						

2012 2012 2012 2012 2012 2012 2012 2012 2012



2012 Community Service Calendar



- Beatty-Daley Challenge (5k) - June 2
- **Big Fish Triathlon (Ortonville) - June 10
- Field Day - June 23-24
- July 4th Operation CARE - July 4-8
- **Tri for Life Triathlon (Otter Lake) - July 15
- **Imlay City Blueberry Stomp - Aug 4
- CRIM race - Aug 25
- Labor Day Operation CARE - Aug 31-Sept 3
- Family Preparedness Day - Sept 8

*Please keep these dates open in your calendar
(** outside county help requested)*

MICHIGAN 2012 HAMFEST CALENDAR

- June 2 - IRA Swap, Hudsonville
- June 3 - Chelsea Radio Swap 'n Shop, Chelsea
- June 9 - Luce County ARS Swap, Newberry
- June 16 - Midland ARC Hamfest, Midland
- June 17 - Monroe Swap, Monroe
- July 5-8 Michigan Section Campout, Lupton
- July 28 - 2012 CMARC Trunk Sales, Lansing
- July 28 - 29 Maker Faire - Dearborn
- July 29 - Portage ARC, Randolph, OH
- August 4 - UP Hamfest, Escanaba
- Sept 23 - Cleveland Hamfest and Computer Show
- Oct 21 - Kalamazoo Hamfest, Kalamazoo, MI



For more information see: <http://www.arrl.org/hamfests/search/>



*Don't forget to join your
fellow hams on the **Tuesday**
night net at 8:00 pm on
146.620 - with 100 Hz PL*



NET CONTROL SCHEDULE

- 29 May - KC8JBK
- 05 June - KD8GAV
- 12 June - NO NET
- 19 June - KB8TAR
- 26 June - KD8EBY

The Genesee County Radio Club is graciously allowing LCARA members to "crash" their Field Day activities.

If you are interested in participating please contact me with your plans and I will get in touch with the GCRC folks.

Kevin KB8TAR



June 9th planning meeting at 9:00 am at the Tim Horton's on the corner of Court and Center

June 16th pre-setup starting at 9:00 am

June 23-24 field days



Please support this public service event by contacting KD8EBY



In Running Memory of Thomas Daley and Michael Beatty



June 2nd 2012 9:00 a.m. Downtown Lapeer

To register please go to racemilestone.com or active.com and search Beatty-Daley Challenge

Event Schedule

Beatty Mile

Daley 5k

Beatty-Daley 5k Walk

To be considered for the mile men must have run 4:15 or better and women 5:15

The Beatty-Daley Challenge is a USA Track and Field (USATF) Sanctioned Event.

Online Registration is available through active.com Search Beatty-Daley Challenge

Top 3 prize purse- details coming soon!

Age group awards for the Daley 5k Run

A portion of the proceeds will be donated to the Thomas Daley Agricultural Scholarship and the Beatty-Daley Scholarship



The revised wording below is my interpretation of the discussion held at the May club meeting. Please review this updated proposal and be prepared to discuss it at the June meeting.

Kevin KB8TAR

Proposed Bylaw Revisions

Article IV Dues

Membership dues shall **be** due at the October General Membership meeting. The Executive Board, as defined in Article VII, may suspend dues for any member where it finds that undue hardship would result.

All board members (President, Vice President, Secretary, Treasurer, Repeater Trustee) shall have their membership dues paid by LCARA.

Yearly membership dues shall be tiered as follows:

- A) \$20 for any member that does not participate in the required number of Operation CARE shifts.**
- B) \$12 for any member that participates in at least 9 hours (3 shifts) at Operation CARE.**
- C) No membership fee for any member that participates in at least 18 hours (6 shifts) at Operation CARE.**

Article VIII Duties of Officers

The President shall preside over all meetings as far as possible and is responsible to the membership for the activities and growth of the Association. **The President shall update the club's information in the ARRL website at least once per calendar year.**

**** Please bring your comments on the proposed revisions above to the club meetings ****

MUSEUM SHIPS WEEKEND EVENT
 sponsored by
The Battleship New Jersey Amateur Radio Station

MUSEUM SHIPS WEEKEND 2012
 June 2- 3, 2012
 0000Z June 2, through 2359Z June 3, 2012



<http://www.nj2bb.org/museum/>

2012 CERTIFICATE INFORMATION
 You must work at least 15 different participating ships

All stations that work at least 15 different ships of those participating (listed below) will receive a certificate if they send a copy of their log entries showing these contacts. *Working the same ship on different frequencies DOES NOT count as 2 ships. Working a ship not listed will not count*

<u>NAME</u>	<u>TYPE OF SHIP</u>	<u>LOCATION</u>	<u>CALLSIGN</u>
K1USN	Watson Museum	Braintree, MA	K1USN
USS Yorktown	Aircraft Carrier	Charleston, SC	WA4USN
USS Hornet	Aircraft Carrier	Alameda Point, CA	NB6GC
USS Lexington	Aircraft Carrier	Corpus Christi, TX	W5LEX
USS Midway	Aircraft Carrier	San Diego, CA	NI6IW
ST-695 Angels Gate	Army Tugboat	San Pedro, CA	K6AA
USS New Jersey	Battleship	Camden, New Jersey	NJ2BB
USS Wisconsin	Battleship	Norfolk, Virginia	N4W1S
USS Alabama	Battleship	Mobile, AL	W6Z
USS Massachusetts	Battleship	Fall River, MA	N1EPL
USS Texas	Battleship	Houston, Texas	NA5DV
USS Missouri	Battleship	Pearl Harbor, HI	KH6BB
USS North Carolina	Battleship	Wilmington, NC	NI4BK
USS Oklahoma Mast Memorial	Fire Control Mast Memorial	Muskogee, OK	WW20K
SS Col. James M Schoonmaker	Bulk Carrier	Toledo, OH	KC8JMS
Ex MV Dresden	Cargo Ship	Rostock, Germany	DLOMCH
USS Arizona Signal Mast Mem.	Signal Mast & Anchor Memorial	Phoenix, AZ	W7TBC
USS Potomac	CG Cutter/Pres. Yacht	Oakland, CA.	NE6JP
USS Indianapolis CA-35 Memorial	Crusier	Indianapolis, IN	WW2IND
HMS Belfast (Saturday Only)	Cruiser	London, UK	GB60QE
USS Littlerock	Cruiser	Buffalo, New York	W2PE
USS Olympia	Cruiser	Philadelphia, PA	WA3BAT
**SS Conte Biancamano	Cruise Liner	Milano, Italy	II2IBCI
USS Cairo	Civil War Ironclad Gunboat	Vicksburg, MS	K5ZRO
USS Laffey	Destroyer	Charleston, SC	NT4HI
USS Turner Joy	Destroyer	Bremerton, WA	NS7DD
USS Orleck	Destroyer	Lake Charles, LA	W5BII
USS Cassin Young	Destroyer	Boston, MA	WW2DD
USS Kidd	Destroyer	Baton Rouge, La	W5KID
**USS Joseph P Kennedy, Jr	Destroyer	Fall River, MA	NB1CR
USS Stewart	Destroyer Escort	Galveston, TX	KK5W
MV Cap San Diego	Freighter	Hamburg, Germany	DLOMFH
MV France 1	Frigate(Meteorological survey)	La Rochelle, France	TM1EJ
D. Fernando II e Glóira	Frigate	Cacilhas Dockyard Portugal	CS5DFG
HMAS Diamantina	Frigate	Brisbane, Australia	VK4RAN
**HDMS Peder Skram	Frigate	Copenhagen, Denmark	OZ1RDN
Navio Hospital Gil Eannes	Hospital Ship	Viana do Castelo, Portugal	CS1AAM
USS LCI(L)-1091	Landing Craft	Eureka, CA	W6ZZK
SS Sankt Erik	Icebreaker	Stockholm, Sweden	8SØHRA
USCGC Mackinaw	Icebreaker	Mackinaw, MI	W8AGB
LS Overfalls (LV 118)	Lightship	Lewes, DE	KB3MIP

LS Huron	Lightship	Port Huron, MI	K8HLM
LS Columbia	Lightship	Astoria, Oregon	W7BU
LS West-Hinder 2	Lightship	Zeebrugge, Belgium	ON4BRN
USS LST-325	LST	Evansville, IN	WW2LST
LST-393	LST	Muskegon, MI	N8LST
MS Atlantis	Minesweeper	Dresden, Germany	DKOMHD
HNLMS Abraham Crijnsen	Minesweeper	Den Helder Netherlands	PI4MRC
**SS Cedarville	Ore Freighter	Rogers City, MI	W8C
Skibladner	Paddle Steamer	Gjovik, Norway	LA1X
SS Hohentwiel	Paddle Steamer	Bodensee, Austria	OE6XMF/9
SS Keewatin	Passenger Steamship	Saugatuck, MI	K8CJQ
RMS Queen Mary	Passengership	Long Beach, CA	W6R0
SS Rotterdam	Passenger Ship	Port of Rotterdam	PI4HAL
MS Finnmarken 56	Passengership	Stokmarknes, Norway	LA1HMU
SS City of Milwaukee	Railroad Car Ferry	Manistee, MI	KS8B
MV "Hans Beimler"	Rocket Corvette-Tarantul class	Peenemuende, Germany	DLONBG
**Tall Ship Elissa	Sailing Barque	Galveston Island, TX	N5E
**Star of India	Sailing Ship	San Diego, CA	NS60I
**SS Ticonderoga	Steamboat	Shelburne, VT	W1T
B143	Foxtrot Submarine	Zeebrugge, Belgium	ON8SUB
U-5075	Seehund Submarine	Quincy, MA	WW2MAN
USS Becuna	Submarine	Philadelphia, PA	N3SUB
**USS Ling	Submarine	Hackensack, NJ	W2GLQ
K24 (U-461)	Submarine	Peenemuende, Germany	DM3G
USS Silversides	Submarine	Muskegon, MI	N8SUB
HMUB Nordkaparen	Submarine	Gothenburg, Sweden	SL8SUB
USS Drum	Submarine	Mobile, Alabama	W6Z
USS Cod	Submarine	Cleveland, OH	W8COD
USS Cobia	Submarine	Manitowoc, Wisconsin	NB9QV
U3	Submarine	Malmo, Sweden	SD7SUB
USS Blueback	Submarine	Portland, OR	W7SUB
USS Pampanito	Submarine	San Francisco, CA	NJ6VT
USS Albacore	Submarine	Portsmouth, NH	NM1JY
**USS Nautilus	Submarine	Groton, CT	N1S
U9	Submarine	Speyer, Germany	DK0SP
S637 Espadon	Submarine	Saint-Nazaire France	F6KBG
U-995	Submarine	Laboe Germany	DLODMB
**Nazario Sauro	Submarine	Genoa, Italy	II1NS
S-61 Delfin	Submarine	Torre Vieja Spain	EG5SUB
USS Cavalla	Submarine	Galveston, TX	KK5W
HMCS Onondaga	Submarine	Pointe-au-Père, Quebec	VA2GNQ
USS Batfish	Submarine	Muskogee, OK	WW2SUB
USS Dolphin	Submarine	San Diego, CA	NS60I
**WWII Sub Vet Memorial East	Submarine Memorial	Groton, CT	W1QV
**B-39	Soviet Submarine	San Diego, CA	NS60I
ITS Enrico Toti	Toti Class Submarine	Milan, Italy	II2IGTO
SS American Victory	Victory Ship	Tampa, Florida	W4AVM
Naval Tech'l Museum La SPEZIA	A.R.M.I.	Italy	IQ1SP
Novosibirskij komsomolec (B-396)	Submarine 641-b	Russian Navy History Museum and Memorial Complex	RU3AWK

Training Announcement

This is an advanced announcement. The Genesee County Radio Club will begin Technician license classes on Sept 24th this fall. More information to follow.

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Stuff for Sale

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FOR SALE, Heathkit HF transceiver SB1400 + SB14001 power supply. Radio has FM 10 meter C.B. \$300. Contact KD8EOA on the repeater or on email at tomadams69@yahoo.com

Ten-Tec Hercules II solid state linear amplifier, with power supply and ten meter mod. Hardly used, part of an estate settlement. \$1000.00 or best offer. Contact Bill, KD8VP at kd8vp@juno.com



FOR SALE, Cush-Craft A4S Four element tri-bander. It's on the ground and ready for pick-up. Manual Included. Lee N8LJ 810-796-9816

If you have something to sell please send an email with the details to kevinboxey@hotmail.com to be included in the Waveguide listing

LAPEER COUNTY AMATEUR RADIO ASSOCIATION

13th Annual

SHOP & SWAP

Sunday, August 19, 2012 at 8:00 AM to 11:30 AM

NEW LOCATION!

LAPEER WEST SENIOR HIGH SCHOOL, 170 MILLVILLE Rd. LAPEER, MI., 48446

(See map on back of flier)

*** Admission: \$5.00 ***

Tables: \$8.00 in advance &
\$10.00 at the door

Mail-in form for admission & tables at
<http://www.w8lap.com>

*** Free parking ***

*** All sales inside ***

*** COFFEE & DONUTS ***

*** Electricity available ***

*** Talk-in 146.620-- ***

100 Hz PL tone

Swap info: kc1bud@arri.net



VE Testing

Bring the original and a copy of 2 forms of ID, current license, & CSCE (if any). Contact Bob, N8NE for test details at 810-653-3856.

*** NO WALK-INS ***

2012 LCARA Swap Table & Ticket Order

Please Print

Name: _____ Call Sign: _____

Address: _____

City, State & Zip _____

Phone number () _____

Tables are \$8.00 each in advance and 10.00 each on the day of the swap.

Number of tables: _____ X \$8.00 = \$ _____

Number of Tickets: _____ X \$5.00 = \$ _____

Electricity: Y N **Limited & on first reserve basis**

For mail-in form go online at www.w8lap.com

Mail to: LCARA, box 12, Hadley, MI., 48440-0012



SWAP FROM THE WEST OR EAST

Take I-69 to **exit 153** turn left onto Lake Nessing Rd..
Go north to Davison Rd. Davison is also West Genesee turn right.
Go to Millville turn left

FROM M-24

Take Genesee Rd. M-21 west to Millville. Turn north(right) on Millville.

Lapeer County Amateur Radio Assoc.
P.O. Box 12
Hadley, MI 48440-0012

L.C.A.R.A. MEMBERSHIP APPLICATION

PLEASE PRINT:

CALL SIGN: _____ NAME: _____

ADDRESS: _____

CITY, STATE, AND ZIP: _____

PHONE : _____ LICENSE CLASS: _____

SKYWARN NO.: _____ RACES NO: _____

ARES MEMBER YES ___ NO ___ E-MAIL ADD.: _____

ARE YOU AN A.R.R.L. MEMBER: YES ___ NO ___

L.C.A.R.A. MEMBERSHIP IS \$12.00 PER YEAR, RENEWABLE EACH YEAR ON **OCTOBER. 1ST.** FAMILY MEMBERSHIP \$20.00. ASSOCIATE MEMBERSHIP \$4.00. IF YOU WISH AN AUTODIAL NUMBER FOR THE REPEATER THERE IS AN ADDITIONAL \$3.00 CHARGE. Financing available.

Lapeer County Amateur Radio Association

P.O. Box 12

Hadley, MI 48440-0012

Lapeer County Amateur Radio Association

P.O. Box 12
Hadley, MI 48440-0012

Officers

President: Kevin Boxey KB8TAR, 810-793-4986
Vice President: Tom Oliver KD8EBY, 810-247-3227
Treasurer: Bill Miller KD8VP, 810-797-5329
Secretary: Flo Haack KC8CAB, 810-793-2606

Committees and Appointees

Club Call Trustee W8LAP: Joe Medved KD8CIL
Repeater Assistants: KC1BUD, KD8EBY, KD8EOA
Skywarn Coordinator: Tom Oliver KD8EBY
Swap & Shop Chairpersons: Bill Miller KD8VP & Dan Bain KC1BUD
Meeting Refreshments: Bill Miller KD8VP
Newsletter Editor: Kevin Boxey KB8TAR
Field Day Chairman: **New volunteer needed**
Field Day Assistants: KD8EBY, KC1BUD, KB8TAR
Net Manager: Tom Oliver KD8EBY
Testing Coordinator: **Volunteer needed**
County EC: Tom Oliver KD8EBY
County PIO: Dan Bain KC1BUD
County AEC: Joe Medved KD8CIL
County AEC: Kevin Boxey KB8TAR



WWW.ARRL.ORG