



W8KEA

MARC



MIDLAND AMATEUR RADIO CLUB  
PO BOX 1049, MIDLAND, MICHIGAN 48641  
www.w8kea.org

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	Keith Johnson KB8SOE	(989) 488-4337
	Michael Vecchitto KB4EIZ	(989) 832-3932
	Jeff Mowery N8KS	(989) 488-4466
	Pat Mullet KC8RTW	(989) 828-6657
Swap Committee	Keith Johnson KB8SOE / Ch	(989) 488-4337
	Michael Vecchitto KB4EIZ	(989) 832-3932
	Jeff Mowery N8KS	(989) 615-3715
	Pat Mullet KC8RTW	(989) 828-6657

#### LIFE MEMBERS

Jack W8PHG (SK), Larry K8SQB, Don W8WOJ, Lee KC8ITI, Raleigh W8QOI (SK)

Midland County Public Service Net, Thursdays at 9 PM

W8KEA Repeater — 147.000 MHz+ PL 103.5 • W8QN Repeater — 443.325 MHz+ PL 103.5

W8KEA Digipeater — 145.090 MHz

Next ARES®/RACES Meeting — Thursday May 5, 2011, 6:00 PM

Next CLUB Meeting — Thursday May 5, 2011, 7:30 PM

Salvation Army Building, 330 Waldo St.

Talk-in 147.000+

**May 2011**

## ***View from the Top of the Tower***

***Lee Hodges, KC8ITI***

Is it just my imagination or is cold weather never going to end? We've had a couple of nice days and I really thought that I would be able to get some outdoor chores done, including some much needed antenna repairs. Forty mile-per-hour winds and snow tend to dampen one's spirit to attempt that kind of work. The good news is I still have plenty of bench work in a nice, warm basement to keep me busy.

The April club meeting was our annual Skywarn® training by the National Weather Service. The training was a little bit different this year with a few more video clips of actual storm footage. All in all, a good presentation by Rich Pollman.

We will be back at the Salvation Army building for our May meeting at 7:30 PM.

We've finished our Spring 2011 General class with most of our students with us to the end. It was a good class and I want to thank those that helped put this class on. I hope our students found the material we presented useful as they continue their amateur

**When all else fails ...  
...Amateur Radio!**



radio endeavors.

Our VE testing session on April 9<sup>th</sup> was well attended. Of course, we expected some of our recent general class students to attempt to upgrade their licenses but we were surprised to have 14 or 15 candidates appear for testing. Thanks to Dennis, N8ERF and the rest of the VE crew for a job

### **MARC MEETINGS**

Chris Rose, KB8UIH, is in charge of special events and topics for the MARC monthly meetings. If you have any agenda items, or topics for the meetings, please contact Chris at (989) 832-7179, or via e-mail: kb8uih@arrrl.net

### **COMMUNICATIONS**

Pat Mullet, KC8RTW, is in charge of communications and publicity for the club. If you have any questions or ideas regarding these areas, please contact Pat at kc8rtw@arrrl.net

### **EXAMINATION SCHEDULE**

*Saginaw* - All future VE testing will be done on an appointment basis only.

*Corunna* - Contact Thomas Carpenter (517) 579-0599 ki8as@charter.net.

*Bay City* - All future VE testing will be done on an appointment basis only.

*Isabella/Clare Counties* - Contact Gus Glass, K8GUS at k8gus@arrrl.net

With all examinations, your original license, a copy of that license, a second photo identification (drivers license, etc.) and a check or money order for \$15.00 made out to "ARRL/VEC" are required.

The address listed below gives testing sessions scheduled for Michigan. <http://www.arrrl.org/arrrlvec/exam-search.phtml?State=MI>

### **AUTOPATCH**

All Midland Club members have autopatch privileges. If you do not have the instructions, contact N8CGP for a copy. Please do not pass on your copy.

### **SUBMISSIONS FOR NEWSLETTER**

Contact Pat Mullet, KC8RTW at kc8rtw@arrrl.net if you want to submit anything for the newsletter.

I need your items by the 15th of the month. Anything received after that may not make it into the newsletter for that month.

If you prefer to download the MARC newsletter from our web site, or have trouble with delivery via USPS, contact Michael, KB4EIZ, at kb4eiz@yahoo.com.

### **MEDIA HITS!**

Have you seen or heard mention of the Midland Amateur Radio Club in the news or in the paper? If so, please forward it, or mention of it to either Pat, KC8RTW (kc8rtw@arrrl.net) or Lee, KC8ITI (kc8iti@arrrl.net)

well done. Look for a full report elsewhere in this newsletter.

By the time you receive this newsletter our Extra licensing class will have started. As of now, I have 5 or 6 people who have expressed an interest in attending the class. I'll report on the progress of this class in the next newsletters.

Planning for the 2011 Midland Amateur Radio Club Swap on June 18<sup>th</sup> is progressing. We've had a couple of missteps that we are working through. First, somehow our registration with the ARRL indicated we were having DXCC card checkers at the swap. We hadn't contacted any checkers to see if they were available but it sounded like a good service to offer at the swap. I contacted the two closest checkers and neither one can come. We are still working on getting a card checker on board. Second, through some miscommunication internally at the Salvation Army a second event was booked for the gym on the afternoon of the swap. Again, we are working with the Salvation Army to resolve this. As always, your ideas for the swap are welcome. Don't forget to get the word out that we are planning to have a good swap.

The Field Day Committee is hard at work planning for this event on June 25<sup>th</sup> and 26<sup>th</sup>. I've heard that this Field Day won't be like our Field Day endeavors of the past. Emphasis this year will be on the emergency aspects of Field Day and the social part of the event. I look forward to some fresh challenges associated with this event.

We are approaching our club's busy time of the year with lots of activities and events that need your support. As the people who have volunteered to act as event coordinators ask for your help be sure to sign up for their activities. I've never heard one of our coordinators tell anyone "we have more people than we need". The more, the merrier, because we can al-

ways find a spot for willing help. Again, your time and radio skills will be greatly appreciated.

I had a chance this weekend to participate in the Michigan QSO party. In years past, I've taken part in this contest as an individual from home. This year John, W8QN organized a group effort to place Midland County on the air. Although this wasn't officially a club event, the operators were all club members with some contesting experience. We had four stations set up with three of them being club equipment and a laptop computer at each location for logging. This is the first time I've been part of a "heads down" contesting event and I learned a lot about the contesting. I'm sure I was the weakest link in the group as evidenced by my total score from the station I was operating. Thanks to all that helped make this a fun and educational day.

That's it for this month. I'm running behind schedule and Pat has sent me more reminders than usual about getting my articles in. I started my 2011 hamfest season by taking a trip to the Marshall Hamfest. I had heard rumors that since they had moved the hamfest from the school it had gone downhill. I'm pleased to report that the rumors are false. It's true that it wasn't as large as I remember but it still was a nice swap in a good facility. Like all swaps, the commercial vendors were absent but the local vendors and hams selling were well represented. I had a shopping list and found some of the items I was searching for plus I picked up a couple of other goodies. I finally told the person I went down with that it was time to head home. Good thing too, because if I would've stayed another 10 or 15 minutes I'm sure a Drake TR4 would have followed me home. Next on our swap attendance list is Cadillac.

Best regards, Lee - KC8ITI

## **MARC Minutes Linda Hodges, KC8MUD**

The evening started with a two hour long weather warning training session given by Rich Pollman.

• The meeting was called to order by Lee KC8ITI at 9:15 P.M. with 24 in attendance.

• A sign-in sheet was sent around and

introductions were made.

• The treasurer's report was canceled until the next meeting.

• EC/RO Report- John W8QN- Topics were recent flooding in Midland.

• Special Service Club -Lee KC8ITI - SSC status has been renewed and certific-

ate issued.

- Swap Report-Keith KB8SOE- Possible problem with a double booking at the Salvation Army Building. Other discussions included Seminars, handicap parking signs, VE schedule and card checking.

- Field Day-Pat KD8IVZ- Pat outlined his plan for this year's Field Day followed by a lengthy discussion.

- Dow Run -John W8QN- Make plans for helping out with the Dow Run in your list of things to do in June.

- General Class- Lee KC8ITI- Class has been wrapped up. The VE Session is on Saturday April 9<sup>th</sup> at the Salvation Army Building.

- Extra Class- Lee KC8ITI- If enough people sign up the Extra Class will begin on April 18<sup>th</sup>.

- Donation-Linda KC8MUD- A dona-

tion was made in memory of Jack Frost to the Midland Presbyterian Church.

#### NET CONTROLS:

April 14<sup>th</sup> Keith KB8SOE

April 21<sup>st</sup> Chris KB8UIH

April 28<sup>th</sup> John W8QN

- Michigan QSO Party- John W8QN- Heads down contest at John's church. Talk to John for more details.

- MS Walk- Chris KB8UIH- Chris is looking for help with the MS walk coming up at the end of April. Let Chris know if you can help.

- An Adjournment motion was made by Cindy KD8JQY and seconded by Larry N8CGP.

The meeting was adjourned at 9:45 P.M.

Respectfully submitted,  
Linda KC8MUD, Secretary

#### Upcoming Events

Apr 30	MS Walk
May 20/22	Dayton Hamvention
Jun 4	Dow Run
Jun 25/26	Field Day
Jul 7-10	Lupton

#### Michigan Hamfests

May 7, 2011	Cadillac
Jun 4, 2011	Hudsonville
Jun 5, 2011	Chelsea
Jun 11, 2011	Newberry
Jun 18, 2011	Midland
Jun 19, 2011	Monroe
Aug 6, 2011	Escanaba
Sep 18, 2011	Adrian
Oct 16, 2011	Kalamazoo
Oct 23, 2011	Sterling Hts.

\* denotes tentative date based on 2010 event

## My Two Cents

**Pat Mullet, KC8RTW**

Well, it looks like spring is here, despite the dusting of snow we endured earlier this morning. And of course, it seems that a hundred-and-one chores comes with it.

The first thing I have to attend to is securing the window-line of the G5RV that Lee, KC8ITI, Bob, W8LSS and Denny, WD8BPT strung up for me last fall. A temporary stand-off was installed to keep the 450Ω transmission line away from the metal flashing on the nearby deck. This thin piece of wood promptly snapped in the high winds of spring. I'd been considering using a section of one inch white PVC pipe in its place, but a search on the Internet showed a much neater solution. Five-inch electric fence extensions, designed to screw onto wooden fence posts, serve the purpose admirably, and are available in bags of 25 at your local Tractor Supply store for only \$8.99. Screw 'em to your wall, and the window-line snaps right into it—problem solved.

Next thing to tackle is the ever-present problem of lightning versus the amateur's antenna system. I eventually plan to snake a number of 50Ω cables through the sill, under the house and into the corner of my room which I call my shack, and to keep my sister happy, I need to keep it presentable. To that end, I purchased a cable-tv entry case from eBay a year or so ago. This box is big and deep enough not only to hold the cable ends,

but surge suppressors for each line. I had a nice, heavy silver-plated brass plate that would serve as a back plate that John, W8QN was good enough to cut to size, and now have mounted, along with a number of Alpha Delta TT3G50 coaxial surge suppressors, in the box, and plan to install it once the weather warms up.

But, along with the work, comes a chance to play. This weekend, I fired up the HF rig and spent a couple hours participating in the Michigan QSO party. I spent the first half of the afternoon doing the "search and pounce" routine, running up and down the 40 meter band, making contacts with counties across the state, along with a few with states bordering the Great Lakes. Each contact seemed grateful that I'd activated Isabella County, giving them a much-needed new multiplier. Then I heard John, W8QN call me on two meters; it seemed that the group from the Midland Club had been chasing me up and down the band trying to make a contact. We settled on a frequency and made our contact, with Chris, KB8UIH at the mike. As soon as I signed off with Chris, I heard another station call me, then another and yet another. It was my first experience being on the receiving end of a pileup, and I spent the next 20 minutes or so taking call after call—the bad part about this was that since I was doing my own logging on my computer, I was nowhere as fast as many of the others I'd

#### Area Nets

SVARA; Mn, 147.24 MHz, 2100 ET  
Gladwin; Tu, 147.18 MHz, 2000 ET  
BAARC; Tu, 145.31 MHz, 2100 ET  
Canadian Lks, Wed, 146.8, 2100 ET  
Edmore, Th, 146.8, 2000 ET  
MARC; Th, 147.00 MHz, 2100 ET  
District 3 ARPSC; Su, 145.31 MHz, 1800 ET  
W Mi Trffc Net; MWF, 145.15 MHz, 0900 ET  
TMMTN; Mon-Sat, 147.30 MHz, 2130 ET  
MACS; Mon-Sat, 3953 kHz 1100 ET  
MIARPSC; Su, 3932 kHz, 17:00 ET  
UPN; Sun-Sat, 3920 KHz, 17:00 ET  
MITN; Sun-Sat, 3952 kHz, 1800 ET  
QMN; Sun-Fri, 3563 kHz, 1830 & 2200 ET  
WSSBN, 3932 kHz, 1900 ET  
UP-ARES; Fr, 3932 kHz, 1930 ET  
GLETN; Sun-Sat, 3932 kHz, 2030 ET  
SEMTN; Sun-Sat, 145.33, 2215 ET

#### MARC MERCHANDISE

T-Shirt	S- XL	\$10
	2X - 3X	\$12
Long-Sleeve Tee	S- XL	\$12
	2X - 3X	\$15
Crew Sweatshirt	S- XL	\$18
	2X - 3X	\$20
Hoodie	S- XL	\$24
	2X - 3X	\$26
Zipper Hoodie	S- 3X	\$30
Winter Coat	S- XL	\$42
	2X - 3X	\$45
Spring Jacket	S- XL	\$32
	2X - 3X	\$35
Hat		\$10

All garments are royal blue with white print and embroidered name and number. Extended sizes available.

Please call Bill Lee at B&C Sportswear with questions @ (989) 839-4537.



heard sitting on one frequency while I'd been cruising the band. Oh, well, they say experience is the best teacher. Still, it's got me wondering if maybe I should

team up with another op during Field Day and camp out on a frequency, trading off the logging duties and see if we can get our point score up from last year.

It's definitely something to think about.

Well, that's enough for this month. See you on the air.

73, Pat, KC8RTW

## What is the Incident Command System?

(ARES E-Letter —Jan 19, 2011) The *Incident Command System* (ICS) is a standardized approach to incident management that:

- Enables a coordinated response among various jurisdictions and agencies.
- Establishes common processes for planning and managing resources.
- Allows for the integration of facilities, equipment, personnel, procedures, and communications operating within a common organizational structure.

The National Incident Management Sys-

tem (NIMS) provides a systematic, proactive approach to guide departments and agencies at all levels of government, nongovernmental organizations, and the private sector to work seamlessly to prevent, protect against, respond to, recover from, and mitigate the effects of incidents, regardless of cause, size, location, or complexity, in order to reduce the loss of life and property and harm to the environment.

The National Response Framework (NRF) is a guide to how the Nation conducts

all-hazards response - from the smallest incident to the largest catastrophe. This key document establishes a comprehensive, national, all-hazards approach to domestic incident response. The Framework identifies the key response principles, roles, and structures that organize national response. It describes how communities, States, the Federal Government, and private-sector and nongovernmental partners apply these principles for a coordinated, effective national response. -- FEMA

## April 19 VE Exam Results

Here are the results of the April 19<sup>th</sup> exam session.

We had 15 people take exams, 50% more than I expected. We had 6 people upgrade and 7 new tech licensees. The successful candidates and their new license classes are:

Emmett Bengry	Extra	W8EAB
Carl Russell, Jr	General	KD8MOX
Duane Brown	General	KD8MRB
Michael Gascoyne	General	KD8PEZ
Katherine Vajda	General	KD8OPE
Darwin Groh	General	KD8JSR
Karl Fleischmann	Technician	
Kevin Martin	Technician	

Scott Kidder Technician  
Jack Hutchinson Technician  
Timothy McNeil Technician  
Aaron McPhall Technician  
Brian Krulicki Technician

Best Regards,  
Dennis, N8ERF

## Help Needed for MARC History Dennis Klipa, N8ERF

I have a list of past MARC officers back to 1962 which W8QOI put together back around 1980. Unfortunately, the names of the individuals were not listed. I have been able to find the names of most of the folks but I am missing a few. I have a couple of old call books but they don't have the missing calls.

I have listed the calls and the years

which they served as officers of MARC. I would appreciate it if you recognize the call sign and know the name if you would pass it along. If you have an old call book that covers the stated years, I would appreciate it if you could look up the call and let me know the name; K8AZB, 1964; K8QIG, 1962; WA8SXY, 1968; WA8VSL, 1969; WA8VTI, 1968.

If you have any information on MARC officers before 1962, that would be appreciated as well.

Thank You and Best Regards,  
Dennis, N8ERF  
636-7704

## Michigan Summer Outing

## Dale Williams, WA8EFK

(Michigan Section News—April 2011) The Michigan Summer Family Out-

ing is a 4-day fun-filled event hosted by your ARRL Michigan Section Staff and

paid for totally from donations, involving fun events for the whole family!

**ARRL Field Day**  
**JUNE 25 & 26, 2011**  
[www.arrl.org](http://www.arrl.org)



Camping, RVing, Canoeing, Horseshoes, Water Slide, Rock Climbing Wall, Hiking, Volleyball, Softball, Boating, Swimming facilities are available all day every day of the outing for your pleasure. Hayrides around the 420 beautiful acres will be arranged and announced. There will be games, campfires, and sing-alongs for all to enjoy. And of course, there will be ARPSC training and other informative seminars available on both Friday and Saturday for any who wish to participate. This annual event will take place July 7, 8, 9 and 10 at Woodlands

Campground near West Branch.

Check the web page for the latest updates: <http://www.sectionouting.info>.

The following activities are currently on the schedule: Fox hunt, Fox Hunt Hints and Kinks, several YL activities, Campfire Fun, Beginners VOIP operating, "What is your Handicap?", ARRL Forum, net meetings, and Musical Entertainment. Details, travel information, motel and travel directions are posted on the web page. Plan early, bring the family. The theme this year is "Remembering the 60s" with prizes for the best

dressed 60's style attendees, the best decorated camp site and the best decorated vehicle!

This is a great time to meet and greet the Michigan ARRL Section Staff Members and your fellow hams.

73 until next month,  
Dale WA8EFK

ARRL Michigan Section Manager  
Dale R Williams, WA8EFK  
[wa8efk@arrl.org](mailto:wa8efk@arrl.org)

## ***ShakeOut Central 2011***

***John McDonough WB8RCR***

Most of you are probably aware of the National Level Exercise (NLE) coming up in May. What you might not be aware of is all the things going on around that.

There are a group of states centered around the New Madrid / Wabash fault zones called the Central United States Earthquake Consortium (CUSEC). This area experiences frequent earthquakes, although usually they aren't severe. However, in 1811/1812 they experienced a very severe event, a repeat of which is overdue. Geological clues indicate that events of this magnitude historically have occurred about every 100 to 150 years.

Because the geology of the area is so different, the effects are far more widespread than California earthquakes. The 1811 event in Missouri caused the church bells to ring in Boston! To the north of the zone the soil tends to be sand and clay, rather than the rock that is prevalent in California. As a result, a significant quake here is more likely to cause soil liquefaction than the violent shaking that characterizes California earthquakes.

FEMA is organizing a week long exercise among the CUSEC states. Originally some neighboring states, including Michigan, intended to participate. However, the scenario development went fairly slowly, causing Michigan, Ohio and several other states to conclude that more could be learned by running their own exercises in conjunction with the FEMA exercise. Because the major

impacts on Michigan are likely to be felt after the initial event, Michigan is calling its exercise "New Madrid Aftermath" (NMA).

Since many of our utilities run through that zone, Michigan's exercise will be largely around loss of utilities and dealing with evacuees. The evacuees are a particular problem since we expect many more than we saw from Katrina, and the small numbers we got from Katrina were a large problem. About half of Michigan's State Agencies plan to participate. There will be an amateur radio component to the State exercise but it will be focused, and thus involve a limited number of participants.

One of the unique characteristics of this exercise is that the CUSEC states have recognized that this event would limit their communications to satellite phones and amateur radio. Because satellite phones are very expensive, their use will be limited, and they can be compromised by weather, so the profile of amateur radio in this exercise is quite high. Indeed, the profile of amateur radio is FEMA's view seems to be increasing. FEMA is now offering an advanced course on amateur radio in emergency response, and are preparing to offer a course on amateur radio for emergency management coordinators.

Recognizing that we haven't had a lot of opportunity to test realistic scenarios with other states, your SEC set out to develop a small drill with another SEOC. Indiana turned out to be the first to answer the phone, so we have been de-

veloping tests with Indiana over the past few months. Both the Michigan State Police and the Indiana Department of Homeland Security chose to become engaged in this exercise. We did a small drill on April 9, and will be interacting with Indiana during the week-long event on May 17.

The exercise with Indiana has been very educational. The traffic needing to go between the SEOCs is not at all like the kind of traffic we practice, Indiana ARES and RACES are a lot different than Michigan's, and Indiana's response to emergency management is also quite different. In addition, we chose to use this exercise to exploit both NTSD and MARS, again, not the sort of thing we do often.

Finally, Jack, NX8A, has taken on the job of developing a section-wide exercise which many of you may become involved in. Because this exercise is happening during the work week, not all counties will be able to participate. Jack has contacted the DECs and it looks as if most of the activity will be in District 3 (our district) and District 7 (to our north).

I have personally chosen to be involved in the design of the state exercise. As a result, I will not be able to play in that exercise, although I may well act as a controller or evaluator. Dennis, N8ERF, will be representing me at the State EOC on May 17.

All in all, the week leading up to Dayton promises to be an interesting one.

73 de WB8RCR

## **Your Help Urgently Needed**

**James E Weaver, K8JE**

(Weaver's Words—March 30, 2011)  
To the many of you who have already written letters to your US Representative on HR 607, thank you. To you who have not gotten "a round tuit" and have not yet written, please do. The fate of the amateur secondary allocation 440 MHz band is at stake. This is a battle I truly believe we can win. We are not the only group that would suffer from having HR 607 pass in its present form. Combined with the other groups, I feel confident we can prevail in having the offending part of the Bill removed. For example, the National Public Safety Telecommunications Council (NPSTC) has stated its support of the ARRL position (<http://www.arrl.org/news/npstc-says-hr-607-needs-to-be-amended>). If you wish additional information go to <http://www.arrl.org/news/arrl-members-respond-to-hr-607>.

To let your US Representative know you oppose the present bill, go to ht-

[tp://www.kd4pyr.net/hamletter.htm](http://www.kd4pyr.net/hamletter.htm) and follow the simple instructions. All that is needed is to insert your call sign where indicated and to click twice more to generate a letter addressed to your US Representative. The letter will be ready to print and for you to sign.

- Be sure to sign your letter. Letters without a handwritten signature are not effective.

- Send signed letters to John Chwat our legislative spokesman in Washington. His addresses are:

US postal mail: John Chwat, Chwat & Co., Suite 103, 625 Slaters Lane, Alexandria, VA 22314

E-mail: [john.chwat@chwatco.com](mailto:john.chwat@chwatco.com).  
Scan and send signed letter as an attachment.

Fax: Number (703) 684-7594.

Do not send this letter or any letter about HR 607 to your US Senators at this time. The bill is only in the US House of Representatives.

Why send your signed letter to John Chwat? First, all postal mail to members of the US House (and other government bodies) is delayed 6 to 8 weeks in being searched for hazardous materials. Second, Mr. Chwat will increase the value of your individual letter by combining it with others and delivering a stack of letters directly to your Representative's office. This manner of delivery makes a particular impact on Congressmen.

If you feel it necessary to mail your letter directly to your Representative, do it. However, please also send a signed copy of it to Mr. Chwat for the reasons outlined above.

Thanks for your help and support in this important effort. Please let me know if you have any questions or suggestions.

ARRL Great Lakes Division Director  
James E Weaver, K8JE  
[k8je@arrl.org](mailto:k8je@arrl.org)

## **Technical Topics and Information**

(ARRL Contest Update —April 13, 2011) Although "hot switching" is usually a bad thing, RF switching relay contacts that are intermittent on receive can sometimes be temporarily restored that way. Tim K3LR suggests, "set (output power) at about 20 watts. Hot switch your relay box several times while transmitting a CW carrier. The small arcing that occurs while doing this "hot" switching - along with the wipe from the relay contact construction closure may clean the contacts well enough that the problem will subside during receive." You'll probably still have to manually clean or replace the relay but this procedure may provide temporary relief.

Dennis N6KI found this excellent writeup (<http://kb5wia.blogspot.com/2009/12/atas-120a-disassembly.html>) with photos by KB5WIA on repairing and maintaining the Yaesu ATAS-120A motorized screw-driver antenna.

An interesting new VHF/UHF turnstile antenna design was published in the October 2010 issue of the IEEE *Anten-*

*nas and Propagation Magazine*. (Vol 52, No 5) By Radnoviä, Nešiä, and Milovanoviä, the design takes care of the phasing requirements by detuning the elements from resonance - no quarter-wave feed lines are required, simplifying construction. An L-C lattice balun ([http://www.odysseus.nildram.co.uk/RFMicrowave\\_Circuits\\_Files/Balun%20Design.pdf](http://www.odysseus.nildram.co.uk/RFMicrowave_Circuits_Files/Balun%20Design.pdf)) is used at the feed point.

Here's a simple Excel spreadsheet (<http://audiosystemsgroup.com/intermod.xls>) that illustrates the principles of intermod prediction by predicting intermod between up to five frequencies and two broadcast carriers. It is also unprotected with all the formulas visible, so you can see how to expand it to consider more channels or improve it. (Thanks, Jim K9YC)

If you are concerned about abrasion of cables on a tower leg or rung, look for a product called Spiral Wrap which is normally used to tidy up cabling. Spiral wrap is perhaps a sixteenth of an inch thick plastic and can be wrapped around

the offending material or the feed line to be protected then secured with electrical tape. (Thanks, Doug EI2CN)

Technical Web Site of the Week - If you are a fan of utility programs, you'll be glad to know that Dan AC6LA has been busy lately! His TLDetails (<http://www.ac6la.com/tldetails.html>) transmission line utility program has been modified to include the effects of dc resistance and internal inductance, added two new plot functions, and several dozen new line types have been added. The Zplots (<http://www.ac6la.com/zplots.html>) Excel utility calculates and plot various attributes of transmission lines from antenna analyzer or vector network analyzer data. There are two small workbooks showing various formulas (<http://www.ac6la.com/tlmath.html>) that are used when dealing with transmission lines and a workbook (<http://www.ac6la.com/feed2el.html>) to aid in the design of a typical two-element phased array loosely based on the 'Arrayfeed1' app by W7EL.

# *Explore the World with Amateur Radio!*

## Wanted - MARC Newsletters

Looking for any newsletters prior to  
January 1984 as well as the following:

February 1984  
March 1984  
May 1984

June 1984  
July 1984  
August 1984  
September 1984  
August 1985

September 1985  
January 1986  
If you happen to have any of these  
newsletters contact Dennis - N8ERF or  
Lee - KC8ITI

## Swap 'n' Shop

**For Sale:** Yaesu FT897D. \$700.

**Wanted to Buy:** Power tubes such  
as but not limited to 4CX series,  
3CX400 and larger. 4-250 and larger, 3-  
500 and larger. Sockets for same and par-  
ticularly for 4CX1500B and  
4CX3000A7. Old Repeater amp that  
used a Push pull pair of tubes. I could  
use some 7/8" to 1.5" Helix with con-  
nectors, but need a minimum of 200' for  
each run. Looking for HV power trans-

formers in the range of 2400, 2600,  
2800, and 3000 VAC, 2KVA and up as  
well as 800VAC to 1 KV AC for screen  
supplies. 6V@10A (4CX1500B), 9V @  
8.5-9A (FU728F), 9.0V @ 41.5A  
(4CX3000A7), and 10V@10A, filament  
transformers. High power tuning caps in-  
cluding vac variables.

Contact Roger, K8RI (K8RI@roger-  
halstead.com)

**Wanted to Buy:** I am looking to  
buy some equipment in good working  
order. If you have any of these items  
you would like to sell at a bargain price,  
please contact me. OK, a reasonable  
price. Oscilloscope – at least 30 MHz;  
VTVM; Audio Frequency Generator; RF  
Frequency Generator; Spectrum  
Analyzer.

Dennis, N8ERF  
989-636-7704

## MARC Vital Statistics

### Memberships Expiring in May

KA8Ezt  
KC8IHB  
KC8ZMQ

KD8HIH  
WA8LQD  
WW9E

KB9YSQ

### Memberships Expiring in June

K8BHU  
N8CGP  
N8KRL

NX8A  
W8LSS  
WD8AXR

WA8KJR  
KA8HQW  
WD8SDX

Current Active Club Membership 61

### Birthdays Celebrated in April/May

KC8TQS 4/9  
KC8SRT 4/11  
KD8CUX 4/17  
N8KFE 4/18  
KC8IHB 4/19  
W8AWS 4/19

KD8HIC 4/27  
WA8LQD 4/27  
KD8MQX 4/28  
W8CVZ 4/28  
KA8Ezt 4/28  
N8JBW 4/30

KD8HIG 4/??  
KC8KOC 5/5  
KC8YHQ 5/11  
KD8FSI 5/12  
KD8MRC 5/12  
KD8MQZ 5/18

KC8MUD 5/19  
K8CCE 5/20  
WD8AXR 5/25  
WD8SDX 5/27

### Anniversaries Celebrated in April/May

WD8OEU and Grace 04/17  
KB8QWQ and Kate 5/16  
KD8EUR and Julie 05/17

Information is from data received 3/8/2011

Any corrections or questions contact John, W8QN

# Amateur Radio. . . We Do That!





Pat Mullet  
Newsletter Editor  
171 E. Orchard Ave.  
Shepherd, MI 48883

If you desire to join the Midland Amateur Radio Club, the dues are \$20 per year for an individual membership. A family membership is available for an additional \$5 per year which covers all of the individual's family members. Family members must reside at the same address as the primary member to be eligible for the family member rate. The membership dues help to cover the operating expenses of the Club, and its radio systems. Membership includes Autopatch privileges on the W8KEA repeater (147.000+), voting privileges at MARC meetings, and a monthly newsletter. Please supply the following information:

Name: \_\_\_\_\_ Callsign: \_\_\_\_\_ License Class \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Home Phone (\_\_\_\_) \_\_\_\_\_ Work Phone (\_\_\_\_) \_\_\_\_\_  
E-mail address \_\_\_\_\_  
Spouse: \_\_\_\_\_ Callsign: \_\_\_\_\_ License Class \_\_\_\_\_  
Birthday: (mm/dd) \_\_\_\_\_ Anniversary: (mm/dd) \_\_\_\_\_  
Desired newsletter format: Paper copy via USPS \_\_\_\_\_ or via e-mail \_\_\_\_\_

Are you an ARRL Member? Y/N      Do you want an ARES Application? Y/N

We request this information so we can communicate with you regarding MARC business, and periodically send you newsletters and congratulatory birthday & anniversary greetings. We do not sell this information nor will we knowingly publicize private information without your permission. Information that is publicly available may be distributed to Club members for various purposes, including membership lists, without prior notification.

You may give this completed form to the MARC treasurer, or you may mail it to:

**MARC, PO Box 1049, Midland, MI 48641-1049**