



W8KEA

MARC



MIDLAND AMATEUR RADIO CLUB
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www.w8kea.org

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LIFE MEMBERS

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

Midland County Public Service Net, Thursdays at 9 PM
Midland W8KEA Repeater — 147.000 MHz+ PL 103.5 / Midland W8KEA Digipeater — 145.090 MHz

Next ARES® /RACES Meeting — Thursday March 4, 2010
Salvation Army Building, 330 Waldo 6:00 PM

Next CLUB MEETING — Thursday March 4, 2010
Salvation Army Building, 330 Waldo 7:30 PM
Talk-in on 147.000 MHz +

March 2010

View from the Top of the Tower

Lee Hodges, KC8ITI

For those of you that don't know, I've just celebrated my 60th birthday. There are some days you would just as soon let pass by with little fanfare and for me this may have been one of them but Linda had other ideas. She made arrangements for all of our children and grandchildren to meet for dinner in Mt. Pleasant to mark the momentous milestone. Of course there was a flurry of cards and gifts for "good old dad." Some to poke fun at my current or approaching frailties, but some were things that I will treasure. My girls raided our picture albums with the help of their mother and put together a slide show DVD set to music. They started out with pictures of my parents and pretty much went through my life. I'm sure that it won't mean a lot to anyone else outside of our family but it sure means a lot to me. The other surprise was a simple card with a note in it. The note simply said "2010 Dayton Hamvention, May 13, 14, 15th. Room reservation details and tickets coming soon. Enjoy. Love all of us." *Linda and I are going to Dayton!* It's been at least 30 years since I've made the trek. That's long before I became a ham and I went down with a group of guys to prowl Dayton for computer stuff. I want to thank my clan for a wonderful evening and all of the great surprises. If you're headed

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



to Dayton this year let's get together and make plans to meet up when we get down there. For every up there has been a down. I guess the downs are so you can recognize the ups. Heading back to our lake property after the party, I hit a deer again. The deer didn't survive and the damage to the car was minor. After taking the car to

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@arrl.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@arrl.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@arrl.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.arrl.org/arrlvec/exam-search.html?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@arrl.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, 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@arrl.net) or Lee, KC8ITI (kc8iti@arrl.net)

the body shop there's no such thing as "minor" damage anymore. Now I have another thing to put on my to-do list.

Thanks to Pat KD8IVZ and Bob W8LSS for their presentation about Moxon antennas at the last Club meeting. Pat presented lots of data on this antenna and Bob set up a Moxon antenna for us to look over. Great job guys. (Pat relays that if you'd like to see the PowerPoint presentation it is available online at <http://bit.ly/moxonant>—Ed.)

Our 2010 swap will be at the Salvation Army building again this year on June 19th. The swap committee is lining up some topnotch presentations for the seminar part of the swap. Due to the types of presentations being considered, some of our scheduled events like the VE testing session will be held at a different time than in the last few years. VE registration will begin at 8:00 A.M. with testing to start at 8:30 A.M. If you have heard of any amateur related presentations that you think would be a good fit for our swap let Keith, KB8SOE know. If you have any ideas and/or comments on how to make our swap better let us know that, too. By the way, if you are headed out to any swaps this spring please be sure to take some of our swap flyers along to pass out. Most swaps have tables where you can drop off handouts. If you need flyers let Keith or myself know and we will get you some.

We are still dotting the "I's" and crossing the "T's" but as things stand right now our 2010 Field Day will be at Dow Diamond. The management of Dow Diamond is very enthusiastic about our event. Jeff, N8KS has been working very hard with the powers to be to get all the details worked out. This will probably be the biggest PR event the club has ever done. The dates for Field Day this year are June 26/27 and the Loons have home games on those days. If you have ever been to a Loons game you know that they are well attended which means we have a chance to put our best foot forward and let the community know that we exist with a real live operating event. An area has been set aside for us to use and as soon as the weather breaks the Field Day committee

will do a site survey and start mapping out the best places to park our support vehicles, our camping area, operating area and PR area. The other members of the Field Day committee are at work on other projects in support of our efforts. For instance, Pat KD8IVZ is working with Dow on getting their new solar shingle demo unit to power our Field Day effort. It looks like their solar unit has enough power to run all of our radios and even has battery backup for our evening and night operations. If you have ideas on how we can best utilize this golden opportunity let Jeff, Pat or any of the Field Day committee know.

Thursday, April 1st is the date of our annual Skywarn® training at 7 P.M. in the Law Enforcement Center on Rodd St. in Midland. This is also a Club meeting night so we will hold our business meeting after the Skywarn® session.

As the old style editors use to say, "It's time to put this issue to bed." I'm still counting the days till I quit going in to my "regular job". I'm still looking at mid-April but that date may slip more towards the end of the month. Linda reminded me that her brother announced his retirement and he "let things slip" for another two years before he finally retired. I have a cousin that did the same thing. I've told her that in my younger days I always thought any place I left couldn't continue to function once I left. But the years have given me some wisdom. Every place I've left is still doing very well, thank you. Even the startup computer store in Mt. Pleasant still has its doors open for business. So I'm sure my current employer will carry on just fine without me. But if they can't I'm always available—for a price. Anyway, the house over here in Frankenmuth just went on the market and we are still looking for just the right place closer to all of you. I can't wait for my "regular job" to be playing on the radio, building projects of interest, repairing all of those projects on the shelf and spending time with all my friends in the Midland Amateur Radio Club.

Best regards, Lee – KC8ITI

Amateur Radio is a Contact Sport!

MARC Minutes Linda Hodges, KC8MUD

The meeting was called to order by Lee KC8ITI at 7:35 PM with 30 in attendance. A sign-in sheet was passed around and introductions were made.

- A motion was made by Cindy KD8JQY to approve December's minutes. Seconded by Pat KC8RTW. Passed.

- A motion was made by Pat KC8RTW to approve January's minutes and seconded by Larry N8CGP. Passed.

- Treasurer's report-John W8QN- Thank-you to Ryan Lughermo KC8PMX, Dennis Caney WD8BPT, Kevin Barnum KB8QWQ, Chris Rose KB8UIH, Keith Johnson KB8SOE, Dennis Klipa N8ERF, and Wayne Peterson KD8MRC for your renewals.

- Phone and Internet discussion followed. Warning, check your AT&T bills for \$15.00 unnecessary charge, John called business office and had this charge removed from MARC's bill.

- EC/RO Report- John W8QN- Reviewed a Midland County class given last week. Link system discussion and possible updates. Small amount of activity last month.

- Swap Keith KB8SOE- June 19th is the day at the Salvation Army site. Committee is very excited about bringing a two hour long Standing Wave presentation given by Bill Hays AE4QL. Sign-up for VE sessions begin at 8:00 A.M. and testing will start at 8:30 A.M. Fliers will be done soon. Good Job guys.

- Field Day- Jeff N8KS- Will take place on June 26/27 at Dow Diamond. Management is very accommodating. Restrooms, overnight stay, food, power and lay-out were all discussed. We need to have banners tied out and look sharp. Be ready to discuss ham radio.

- Skywarn® class-Lee KC8ITI- At the LEC on April 1st at 7:00 P.M. A short business meeting will follow.

- Middle School Class - Denny

WD8BPT- SATERN Vehicle request for swap and Field Day has been approved. Middle School Students have been practicing CW and are loving it.

- Idea- Jack NX8A-Let's dress in period attire, set up CW stations at either end of the mall and pass messages. No date set yet but Jack is looking for interested participants. Sounds like great fun and a good way to generate interest in our hobby.

- Preparedness Training- John W8QN- Free training on Saturday, May 8th from 8AM to 4PM at the Law Enforcement Center. Register on-line at www.com.midland.mi.us or call 989-839-4626.

- Haiti- Dennis N8ERF- One meal served by the Salvation Army fed 162,000 people.

- Haiti- Pat KD8IVZ- Pat made contact with an Earthquake Survivor and called for help for their village. Help arrived within 24 hours. KUDOS to you Pat and to all those who helped during that desperate time.

- NET Controls:

Feb 11th Wendy KD8IWB

Feb 18th Jack NX8A

Feb 25th John W8QN

- Presentation- Pat KD8IVZ and Bob W8LSS- Pat gave a very good power point presentation all about Moxon antennas complete with props. Very well received and very interesting.

- The evening ended with Happy Birthday cake and ice cream for our illustrious president Lee KC8ITI.

- A motion to adjourn made by Larry N8CGP and seconded by Pat KD8IVZ. The meeting ended at 8:50 P.M.

Respectfully submitted,
Linda KC8MUD
MARC Secretary

Upcoming Events

Apr 1 Skywarn Training

Michigan Hamfests

Feb 21	Livonia Swap
Mar 20	Marshall Hamfest
Apr 3	Lowell
Apr 17	Milford
May 1	Cadillac
Jun 5	IRA Hamfest, Hudsonville
Jun 19	Midland
Jun 20	Monroe
Aug 7	Escanaba
Sep 19	Adrian

* denotes tentative date based on 2009 event

Area Nets

SVARA; Mn, 147.24 MHz, 2100 ET
Gladwin; Tu, 147.18 MHz, 2000 ET
BAARC; Tu, 145.31 MHz, 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.

My Two Cents

Pat Mullet, KC8RTW

I don't care what the groundhog saw, I'm ready for spring!

Still, I suppose I'd better take advantage of the grey winter skies and get some work done, as it looks to be a very busy spring, indeed.

First off, Club news—

Planning for this year's Swap proceeds apace, and the Committee has confirmed that our keynote forum/seminar will be a presentation on the art and science of standing waves. This tour-de-

force by Bill Hays, AE4QL, not only explains the theory, but visually demonstrates it in a way that makes it real for everyone, neophyte or old-timer alike.

The management at Dow Diamond has provisionally approved the use of their front lawn as our Field Day site, and since the Loons are scheduled to play at home that weekend, this guarantees a huge amount of exposure for both the Club and Amateur Radio in general. Details still need to be nailed down, and a good deal of planning, including such details as antenna siting and shelter/camper placement needs to be done, but this is a very exciting development.

Of course, both of these are going to require a good deal of PR work on my part, and I will probably be asking for volunteers to help out during Field Day to

help convey visitors around the site, answer questions and give tours, but that's something we'll nail down in the upcoming months.

On the personal end of things, I'm slowly, but surely getting my digital station up and running. I've finally gotten the old Windows 98 box I inherited working the way it should, and the connection to the Internet established. I should have the TNC running this weekend, after another trip to town to get the proper connector for the interface cable. The software is up and running and I've managed to not only get the APRS program connected via the Internet and extracting data that way, but have it automatically grabbing maps for its display at need. The biggest problem would appear to be getting a decent antenna up for the radio,

so until I can do that, both APRS and packet are going to have to be a part-time affair, sharing time with the voice rig. Still, I should have everything in place by the time that John, W8QN conducts the packet training and exercise his has planned for this spring.

And, of course, after the weather breaks, I'm finally going to get my HF antenna moved, tuned, and the radials field buried—I'm tired of that rig being deaf as a post. It's been far too long since I've had a chance to carry on a conversation any farther out than the nearest repeater!

So, it looks as though my slate's going to be full over the next few months. I hope we can all clear some time to get on the air and enjoy our hobby!

73, Pat, KC8RTW

CQ DX

Don Christensen, W8WOJ

I'm still checking into many local nets for much enjoyment, as is KB4EIZ. Not as exciting as working DX but very relaxing. I continue to work the UK gang on 3800 KHZ at their breakfast time. Happened to check on 15 meters (which is infrequent) a few days ago and worked the only signal readable, VP8LT in the Falkland Islands of the southern tip of S.A. 7X6/KC7JEZ was worked on

40CW somewhere at sea. Jan OK3BJJ of the Czech Republic hangs out on the low end of 80CW. AI UN7PL of Kazakhstan fires up on low end of 40CW often.

Fort Monmouth Army Signal Corp Hdqs in New Jersey has been in a state of deactivation for several years. Last weekend was the final hours for K2USA the MARS station at Monmouth. I worked K2USA as their special event sta-

tion. Back in 1951 I was offered a job at Fort Monmouth but turned it down.

Hats off to John ex-WB5PBL on his new 1x2 call, W8QN. Finally to top it off, I had a 40 meter SSB QSO with Ken W8FXC over on Grove Street. He and I go back to Midland High days in the early 1940's.

73 and keep DXing. Don W8WOJ

ARES®/RACES

John Wolters, W8QN

In the February meeting we recapped progress on the projects of the last year and charted a path for this year. John McDonough, Bob Winchester and Chris Rose will work to investigate what it will take to finish up our activities with Bay City in the packet area. John Hutchinson will continue to interface with the Sheriff's department for SAR. Keith Johnson will continue to investigate a go kit. Dennis Caney, Pat Russell, John Hutchinson, and I will start discussions on grants. The 440 repeater is waiting on some parts and free labor, expected sometime in March. Dennis Caney and John Hutchinson will contin-

ue to talk with the Salvation Army on how we interface with them. A second remote repeater receiver site is in the works thanks to Del Lafavor. Don't expect much progress until work on the water tower begins sometime next year. Pat Mullet and Dennis Klipa volunteered to provide a list of Amateurs in Midland County (which they have completed) in a form that can be manipulated for a future mailing.

For future meetings, in March, John McDonough will talk about the National Traffic System and how we would interface into it in an emergency. Depending on time we will also discuss how were

would pass digital traffic in the county. April is Skywarn® training so the ARES®/Races meeting will be canceled. May will see a training session in the use of packet and if enough time, other digital modes, with an exercise hopefully in late May. June is Dow Run, MARC Swap and Field Day. As always the first half of the year starts off slowly, becoming a run in June. Thanks to everyone for your attendance in the February meeting and I hope to see you in March.

John Wolters, W8QN
Midland County
ARES EC, Races RO

Severe Weather Spotting Class to be Offered

With Christmas barely passed and Michigan caught deep in the throes of

winter, most of us will find it hard to worry about the possibility of severe

weather in the spring and summer months. Even so, now's the time to start

planning for the inevitable rough weather, and to that end, the National Weather Service's Detroit Forecast Office is scheduling Severe Weather

Training seminars throughout the seventeen counties they serve. This year's Midland County Skywarn® training session will be held Thursday,

April 1st, at the Midland Law Enforcement Center, 2727 Rodd St. The session will begin at 7:00pm, and run approximately 2 hours.

Midland Amateur Radio Club Merchandise Available Again

Due to popular request, orders are being taken again for Midland Amateur Radio Club clothing. MARC Secretary Linda Hodges, KC8MUD, has contacted Bill Lee, the Club's regular merchandise vendor and received the following quotes on an expanded variety of available merchandise:

T-Shirt S- XL \$10; 2 - 3X \$12

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

All garments are royal blue with white print and embroidered name and

call sign. Extended sizes are available. Members will have the option of having their merchandise imprinted with the classic MARC logo or the updated version used in conjunction with the Club's 60th Anniversary activities.

To order, or if you have questions, please call Bill Lee at B&C Sportswear @ (989) 839-4537.

Standing Up For Standing Waves

Dennis Klipa, N8ERF

That is the title of an amazing demonstration that will be presented by Bill Hays, AE4QL, at the Midland Swap in June. If you're confused about SWR, reflected power, or matching an antenna to a feed line, you won't want to miss this demonstration. If you are like me, you learn better by seeing than reading something in a book. You will actually

get to see a standing wave on a transmission line, brought to light by some clever techniques originally developed by Dave Smith, W8YZ, and recently expanded and enhanced by Bill Hays, his successor. You will get to see firsthand the effect of dielectrics on the velocity factor of a transmission line and what happens to the standing wave as you change the

impedance at the end of the transmission line and MUCH MORE. If you just got your ticket or you are an old timer, you will be amazed.

Mark your calendars for the Midland Swap on June 19th. You won't want to miss this one.

Best Regards,
Dennis, N8ERF

More Co-Sponsors On Board for HR 2160

(ARRL Letter, Feb 12, 2010)—Last month, another Congressional Representative -- Jo Bonner (R-AL-1) -- pledged his support for HR 2160, The Amateur Radio Emergency Communications Enhancement Act of 2009, bringing the total number of cosponsors to 34, including original sponsor Sheila Jackson-Lee (D-TX-18). HR 2160 is also sponsored by W. Todd Akin (R-MO-2), Michael Arcuri (D-NY-24), Roscoe Bartlett (R-MD-6), John

Boozman (R-AR-3), Madeleine Bordallo (D-Guam), Andre Carson (D-IN-7), Geoff Davis (R-KY-4), Bob Filner (D-CA-51), Scott Garrett (R-NJ-5), Bart Gordon (D-TN-6), Brett Guthrie (R-KY-02), Maurice Hinchey (D-NY-22), Michael Honda (D-CA-15), Mary Jo Kilroy (D-OH-15), Tom Latham (R-IA-4), Zoe Lofgren (D-CA-16), Blaine Luetkemeyer (R-MO-9), Thaddeus McCotter (R-MI-11), Charlie Melancon (D-LA-3), Candice

Miller (R-MI-10), Dennis Moore (D-KS-3), John Olver (D-MA-1), Bill Posey (R-FL-15), Dana Rohrabacher (R-CA-46), Bennie Thompson (D-MS-2), Michael Turner (R-OH-3), Peter Welch (D-VT), David Wu (D-OR-1), C.W. Bill Young (R-FL-10) and Don Young (R-AK). Go to <http://www.arrl.org/news/stories/2009/05/12/10818> for information on how to encourage your Congressional Representative to sponsor HR 2160.

Technical Topics and Information

(From the ARRL Contest Update, Feb 3, 2010)

A nice pair of articles by KØFF appeared recently on the eham.net Web site. First is an article on building impedance transformers for Beverage antennas (<http://www.eham.net/articles/23126>) with lots of photos and detailed instructions. The second is a variation of the 5/8-wavelength 40 meter vertical design (<http://www.eham.net/articles/23127>) in ON4UN's "Low Band DXing" book.

Good reading!

Dealing effectively with EMI and building transmission line components requires just the right type of ferrite. Once you know the manufacturer's part numbers you'll need to find a distributor, unless you want to order in large quantities. Mouser Electronics carries many of the Fair-Rite parts under "EMI/RFI Components". Ferroxcube is distributed by Elna Magnetics and that company also carries Fair-Rite. Kits and Parts by W8DIZ is a

good source of both powdered-iron and ferrite cores with T- and FT- part numbers, as well as the vaunted W3NQN filters and other products. (Thanks, John K5PRO and Gary K4FMX)

The Ford EMC booklet being available on the Repeater-Builder Web site was mentioned in the Jan 20 issue of this newsletter. Mike WA6ILQ wrote to let you know that you can also find Chrysler and GM EMI information on the site.

When you need circuit design ideas it is usually time to hit the books, but if you don't have a huge library on hand, how about the Potluck Circuit Database? Another good on-line circuit resource is the CircuitsArchive Web site. Don't forget to contribute your own favorite circuits, too!

I found a neat idea for the beginning and intermediate builder, Circuit Stickers that provide a circuit layout for prototyping PCBs and solderless breadboards. They are available from Indiana Kits along with actual kits and other goodies.

Jim K9YC reminds us not to confuse phase shift with time delay. For example, a length of transmission line is often referred to as a phase-shifting ele-

ment, but the line only provides a specific number of degrees of phase shift at one frequency. A length of line is more accurately viewed as providing time delay, instead.

As we convert to lead-free soldering, flux will become more important. Writing on the QRP-L reflector, veteran builder Chuck W5USJ recommends NoKorode Regular Paste Flux made by Rectorseal. It's designed for lead-free solder but he finds that it works well for lead-tin solders, too. It works particularly well on nickel-plated connectors such as RCA and other audio styles.

Resources for dealing with RFI to and from the dreaded touch-lamps are presented on a dedicated ARRL Technic-

al Information Service page. (<http://www.arrl.org/tis/info/touchlamp.html>) QST also ran several articles on the problem: May 1985, Jan 1986, Jan 1993, May 1993, Feb 1995, Apr 1995, and Jun 1997 - all are available through the on-line QST Archives for ARRL members. (Thanks, Gene AD3F)

Technical Web Site of the Week - If you need to link GPS data with field measurements such as noise levels, Pete N4ZR suggests trying the free GPS Visualizer (<http://www.gpsvisualizer.com/>) software. The list of example maps on the site should really pique your interest!

2010 Field Day Packets Now Available



(ARRLWeb, Feb 2, 2010) -- It's that time of year again -- time to start gearing up for ARRL Field Day, June 26-27, 2010! ARRL's flagship operating event -- always held the fourth full weekend in June -- brings together new and experienced hams for 24 hours of operating fun. Field Day packets are now available for download and include the

complete rules (including changes for 2010), as well as other reference items such as forms, ARRL Section abbreviation list, entry submission instructions, a Frequently Asked Questions section, guidelines for getting bonus points, instructions for GOTA stations, a kit to publicize your event with the local press and more.

New ARRL Web Site Coming Soon



(ARRLWeb, Feb 11, 2010) -- After more than two years of planning, designing and writing, we here at the ARRL are eagerly anticipating the launch of the new ARRL Web site. We've been able to make the online experience easier for our members—from the online store, to registering for a class, to finding a

club—plus we've created a new, enhanced member profile with many more options available. We've made improvements with you in mind, making sure that we've created the easiest, most enjoyable online experience possible. The new Web site will be available at the end of February.

W1AW to Alternate Digital Mode Schedule

(ARRL Bulletin February 12, 2010)—Beginning Monday, March 15, 2010, W1AW will alternate the digital modes used for its digital bulletin transmissions.

While Baudot, PSK31 and MFSK16 still make up the digital mode complement, the schedule will be altered to give more exposure to PSK31 and

MFSK16.

Because of time constraints and the varying lengths of digital bulletins, there were many instances where only Baudot was used. With the new schedule, amateurs preferring either PSK31 or MFSK16 will find these modes no longer secondary.

The regular callup will be made

using the mode that is transmitted first. The digital bulletin times remain at 6 PM and 9 PM eastern, daily.

The Tuesday and Friday Keplerian data bulletins will continue to be sent using just Baudot and PSK31.

The new digital schedule is as follows:

Mon: Baudot, PSK31, MFSK16

Tues: PSK31, MFSK16, Baudot
 Wed: MFSK16, Baudot, PSK31
 Thur: Baudot, PSK31, MFSK16
 Fri: PSK31, Baudot, MFSK16

Given time constraints and bulletin lengths, all three modes may not always be transmitted.

The complete W1AW schedule can

be found on page 100 of the January issue of QST, or on the web at <http://www.arrl.org/w1aw.html#w1awske>d.

Swap 'n' Shop

Wanted: I'm still looking for QRO project materials such as the 4CX-1500B or A. 3CX1500A7/8877 (pulls are fine) and almost any of the Russian GU84B/4CX2500, GS23B, GU73B, GU74's, the old antique 6C21, 450TH, or 750TH. Helix 7/8" or greater (used is fine) and connectors to UHF and plate transformers from 1900VAC to around 2800-3200VAC. Also need a spectrum

analyzer and maybe a bit of help with some tower climbing as I need to overhaul the antennas.

Missing: Bird 43 Watt meter in case with assortment of slugs. Roger (K8RI)

Want to Buy: An older 2 meter transmitter or transceiver that does not have the automatic SWR activated shut

down circuit. Crystal controlled is OK. I need something in the 20 watt range. Dennis, N8ERF

Wanted: I'm looking for the drop-in battery charger that was supplied with the old Radio Shack handheld model HTX-202. Email or phone W8WOJ



ARRL FIELD DAY 2010 June 26-27

MARC Vital Statistics

Memberships Expiring in February 2010

K8SRH
KA8EZT

KC8URV
W8NON

Memberships Expiring in March 2010

AB8JF
N8WTQ

K6VWE
K8VB

Memberships Expiring in April 2010

W8QN
WA8LQD

Current Active Club Membership 67

Birthdays Celebrated in February/March 2010

KC8ITI 2/2
AA8EJ 2/3
W8JBD 2/4

KB8LQM 2/8
W8NON 2/14
WW9E 2/18

K8VB 3/1
W8SEX 3/4
KC8RTW 3/17

Anniversaries Celebrated in February/March 2010

KC8TQS and Julia 2/14
WW9E and KB9YSQ 02/15

KC8ITI and KC8MUD 03/06
WD8BPT and Melody 03/13

KB4EIZ and KD8HIC 03/24

Information is from data received 2/9/2010

Any corrections or questions contact John, W8GN

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