



The Repeater The Repeater



The Livonia Amateur Radio Club

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President's Corner 1	<p>Happy Easter to all. Easter always tells me that spring is here and summer is just around the corner. As everyone knows, it was a long winter and so far a rather damp spring with a few samples of the good weather that is in store for us. Now is a great time for tuning up existing antennas and gear or putting up new ones to take advantage of the new solar cycle. The NASA Solar Cycle Prediction which was last updated on 2011/04/04 continues to show a steady increase in the numbers of sunspots monthly since late 2009/2010. Bands that have been dormant (10, 12 and 15 Meters) are starting to open up more often as the months go by and of course DX on these bands is now more plentiful. Also remember that Field Day is just 61 days away so be sure to leave the last weekend in June open for this fun event. We are working on plans to give everyone a chance for some radio time. This is the time for those who have had little or no time at the radio during events like this to get there feet wet and expand their skills. Look forward to seeing you all there.</p> <p>April has been a very busy month for LARC. Besides our regular schedule we hosted the Skywarn training session on the 11th at the Livonia Library. The session was well attended and went along very well. Members of LARC that took part in the Skywarn session or helped at the front desk were: Al KD8NWA, Peter K8ACS, Art W2EQX, Mike N8MR, John K8AZT and Cathy and Doug Scoda KD8PKI and myself.</p> <p>On April the 16th we held our Michigan QSO party in the basement of the Livonia Police Station. On Friday Al KD8NWA, John K8AZT, Mike N8MR, and myself put up antennas in somewhat windy weather. On Saturday the above members were joined by Peter K8ACS, Art W2EQX, and Cathy and Doug Scoda KD8PKI in working contacts. Peter helped us with our computer log and Doug was put in the chair behind the radio by Al and did a great job in working many contacts. Mike and John K8AZT, spent 12 hours behind the CW rig and logged a great number of contacts.</p> <p>On April the 23rd we held a VE test session in the EOC training room of the Livonia Police Station. One person showed up to take his Technician exam and passed. Congratulations! Thanks to Bruno WA8DHP, John KN8B, Mike N8MR and Ivan N8AMT for their help. And if any members of the club want to take a license exam, regardless if its for a new license or an upgrade, contact Bruno, our VE liaison, and he will set up an exam for you during the week or on the weekend.</p> <p>I would like to extend a hardy thank you and a well done to all of the members who participated and helped to make both of these events a great success.</p> <p>73 John, KD8NWD</p>	
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IMPORTANT DATES		
Meeting Apr. 25 Hamvention May 20 Summer Starts Jun 22 Field Day Jun 25		
NEXT MEETING		
7:30 pm Monday April 25th 2011 Livonia Civic Center Library East Wing Meeting Room TOPIC: Show Us Your Favorite Homebrew Project.		

LIVONIA REPEATER ▪ 145.35 PL 100HZ ▪ ECHOLINK W8WQU-R
LARC 2-METER NET EVERY THURSDAY 8:00PM LOCAL TIME

2011 Skywarn Wrap Up

The Livonia Amateur Radio Club and Livonia Police Department sponsored the 2011 NOAA Skywarn class on April 11th. Despite the threat of a government shutdown starting on April 9th, we had quite a good turn out. I counted about 80 people in attendance before the intermission, which is on par with previous years. John, K8AZT, Al, KD8NWA and John, KD8NWD helped run the club's display table. Thanks to all who helped or stopped by to chat. Photos are on Page 8.

2011 Michigan QSO Party Wrap Up

The Livonia Amateur Radio Club once again participated in the MiQP as an EOC entry. We operated from noon till midnight on April 16th. Setup began on Friday, April 15th, when John, K8AZT, John, KD8NWD and Al, KD8NWA helped me get the club's new Hustler 6BTV constructed on the lawn of the Livonia Police Department and the G5RV up on the roof of the building. The antennas were up, and coaxes were run and tested before the rain and wind came along.

On Saturday, April 16th, we operated from noon till midnight. Phone operators included Al, KD8NWA, John, KD8NWD, Art, W2EQX, Doug, KD8PKI. IT support was graciously accepted from Peter, K8ACS, who helped us sort out our computer log on-the-fly. CW operators included John, K8AZT and Mike, N8MR. The club's Yaesu FT-450 AND 6btv ANTENNA were used for the Phone station and K8AZT's Elecraft K3 and the club's G5RV were used for the CW station. Thanks to all who participated. We're looking forward to next year's MiQP.

PHONE

BAND	QSOs	COUNTIES	STATES
75	23	52	29
40	210		
20	4		
TOTAL	237		

CW

BAND	QSOs	COUNTIES	STATES	DX
80	112	35	14	9
40	187			
20	72			
15	1			
10	1			
TOTAL	373			

2011 ARRL National Exam Day Wrap Up

We held a VE test session on April 23rd, which was the 2011 ARRL National Exam Day. Three examinees were expected to be there, but only one showed up. The examinee was Jacek and he held the callsign SQ9BOP in Poland. Now living here in the U.S., he was testing for his Technician license. Jacek passed the Tech test quote handily and hopes to take his General exam before Field Day. Thanks to Bruno WA8DHP, John KN8B and Ivan N8AMT for volunteering their time to help with the exam.

Two Astronauts Get Their Ham Ticket

The ARRL Letter 03/31/2011

<http://www.arrl.org/news/two-astronauts-get-their-ham-ticket>

Even though they aren't scheduled to go to the International Space Station (ISS) until 2013, two astronauts -- Chris Cassidy and Luca Parmitano -- are now licensed amateurs. Cassidy, who received the call sign KF5KDR, is scheduled to head to the ISS in March 2013 as part of Expedition 35. Parmitano, who is KF5KDP, goes up three months later in May, as part of Expedition 36.

"Our aim is to have at least one crew member licensed and trained in on-air protocol, who is somewhat excited about ham radio and the Amateur Radio on the International Space Station program (ARISS), per expedition," explained ARRL ARISS Program Manager Rosalie White, K1STO. NASA ISS Ham Radio Project Engineer Kenneth Ransom, N5VHO, told the ARRL that both Cassidy and Parmitano are "excited and interested in the educational aspects of Amateur Radio on board the ISS."

Currently, there are three Russian cosmonauts, two US astronauts -- Ronald Garan, KF5GPO, and Catherine Coleman, KC5ZTH -- and one Italian astronaut on board the ISS as part of Expedition 28. Alexander Kaleri, U8MIR, and Oleg Skripochka, RN3FU are Russian; Paolo Nespoli, IZ0JPA, is from Italy. In June 2011, a new crew -- Expedition 29 -- reports to the ISS: Michael Fossum, KF5AQG; Sergei Volkov, RU3DIS, and Satoshi Furukawa, KE5DAW. This crew will join Coleman, Nespoli and Dimitri Kondratyev. According to the ISS schedule, at least three hams will be on board the ISS at the same time through the end of 2012.

Ransom told the ARRL that he is especially excited for Expedition 29 launch. "Mike Fossum is a Scoutmaster with a Boy Scout troop here in Houston," he said. "We are hoping that he will be active making Amateur Radio contacts with Scouts all around the world while on the ISS. The World Scout Jamboree is in Sweden this year in July and August, and Jamboree on the Air (JOTA) is near the end of his mission. Hopefully, he will be available for both events, giving Scouts an exciting QSO from space."

New Mars Rover to Feature Morse Code

The ARRL Letter 03/31/2011

<http://www.arrl.org/arrlletter?issue=2011-03-31>

As the Jet Propulsion Laboratory (JPL) builds the next Mars rover -- this one is named Curiosity -- to deploy to the red planet in the fall of 2011, they're having a little fun with it. Back in 2007 when the Curiosity team was putting together the rover, its wheel cleats had a raised pattern with the letters "JPL," leaving a little stamp of the rover's birthplace everywhere it rolled. "At the time, I asked whether the real rover would have those wheels, and they said, no, they weren't going to get to advertise JPL with each turn of each of the rover's six wheels; the real rover would have some other pattern," said Emily Lakdawalla of The Planetary Society in her blog. Lakdawalla is the organization's Science and Technology Coordinator.

Lakdawalla said that there is nothing special about the shapes of the markers in Opportunity's wheels; they are just square holes through the wheels through which the wheels were bolted to the lander during cruise and landing. "Opportunity is the name of the rover that went to Mars back in 2003. "But Curiosity didn't need holes in its wheels for attaching to any lander -- there isn't one. So the engineers got to make the markers in any shape they wanted to."

But in March 2011, she saw a video of the rover as it is today: "I had to chuckle at those 'visual odometry markers' [on its tires]. Before I explain why, I'll point out that they really are useful things to have in rover wheels. The repeating pattern of these 'visual odometry markers'...makes it fairly easy for both the rover and human operators to determine visually how far the rover has roved using rear-view imagery."

(Continued on page 4)

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So what pattern did JPL choose to put on Curiosity's wheels? One that Lakdawalla called "very amusing. The holes are in a pattern of short squares and longer rectangles -- almost like dots and dashes. Morse code." And what does it spell out in Morse code? JPL.

According to JPL, Curiosity is about the size of a small SUV -- 10 feet long (not including the arm), 9 feet wide and 7 feet tall - or about the height of a basketball player -- and weighs 2000 pounds. It features a geology lab, rocker-bogie suspension, a rock-vaporizing laser and lots of cameras. Curiosity will search areas of Mars for past or present conditions favorable for life and for conditions capable of preserving a record of life. It is set to launch between November 25-December 18, 2011 from Cape Canaveral, Florida and will arrive on Mars between August 6-20, 2012. The prime mission will last one Mars year, or about 23 Earth months.

FCC Launches Complete Overhaul of Website

The ARRL Letter 04/06/2011

<http://www.arrl.org/news/fcc-launches-complete-overhaul-of-website>

The Federal Communications Commission announced today that it has launched a complete overhaul of its website. According to an April 6 press release from the FCC, the new website is "architected with a more intuitive user experience and the addition of Web 2.0 technologies, the new site improves and simplifies the FCC.gov experience for consumers, government, public safety agencies and the business community." This is the first major update to the Commission's website in 10 years.

Even before Julius Genachowski became FCC Chairman in June 2009, he stressed his desire to improve and modernize the way the public interacts with the Commission and the federal government. Since then, the FCC has utilized Web 2.0 technologies on official agency blogs, multimedia and social media outlets, as well as opening the agency's processes via online participation platforms. According to the FCC, The Commission's New Media Team will continue to update the new website with the help of public input through the public engagement and participation features in the new FCC.gov, as well as the agency's social media outlets.

"This FCC is empowering consumers and businesses to get the most out of technology," Genachowski explained. "The launch of the new FCC.gov keeps us at the forefront of innovation, and delivers on our promise to move at the speed of high-tech change."

According to the press release, FCC Managing Director Steven VanRoekel oversaw the technical development and innovation strategies for the new site. His vision for the new site drove the deployment of the site's cloud-hosted architecture, open source development and embrace of leading design techniques drawn from leading consumer sites. "Online innovators have built destinations that deliver outstanding experiences, high-quality products and great customer service," he said. "That's what consumers and businesses expect online, and it's what makes the web great. Traditionally, dot-govs have struggled to keep up with rapidly changing technology, but the re-imagined FCC.gov is proof that with the right tools and creative thinking, dot-govs can look, feel and run like dot-coms."

The press release explained that the new FCC website is built using web services -- a series of standards employed across many of the Web's most popular sites -- which empowers citizen developers to build off the new FCC site in innovative ways: "By building the new site using an open source, cloud-hosted and scalable architecture, the FCC has leveraged modern tools as a long-term cost-saving strategy, lowering the barriers to future development and innovation among other public and private sector websites." -- Thanks to the FCC for the information

Hamfests and Conventions

05/07/2011 | [Cadillac Hamfest](#)

Location: Cadillac, MI

Type: ARRL Hamfest

Sponsor: Wexauke ARC

Website: <http://www.wexaukearc.org/index.html>

05/20/2011 | [Dayton Hamvention](#)

Location: Dayton, OH

Type: ARRL Hamfest

Sponsor: Dayton Amateur Radio Association

Website: <http://www.hamvention.org>

06/04/2011 | ["Good Old Days" Hamfest](#)

Location: Hudsonville, MI

Type: ARRL Hamfest

Sponsor: Independent Repeater Association

Website: <http://w8ira.org>

06/05/2011 | [Chelsea Radio Swap 'n Shop](#)

Location: Chelsea, MI

Type: ARRL Hamfest

Sponsor: Chelsea Amateur Radio Club

Website: <http://wd8iel.net>

06/18/2011 | [Midland ARC Hamfest](#)

Type: ARRL Hamfest

Sponsor: Midland Amateur Radio Club

Website: <http://www.w8kea.org/hamfest>

06/19/2011 | [Monroe Hamfest](#)

Location: Monroe, MI

Type: ARRL Hamfest

Sponsor: Monroe County Radio Communications Assoc.

Website: <http://www.mcrca.org>

Elmer Hotline!

Starting out on a particular mode or stumped by technical problems with your equipment? Are you hesitant to bring up their problems at meetings or breakfasts? Bring your questions regarding a piece of equipment or a new mode to the Elmer Hotline: (President@livoniaarc.com). We will get you connected to someone who has the expertise you need.

2-METER NET NOTES

During the open discussion period of our 2-Meter Net on Thursdays is also a great time to contact someone that could help answer a question or give you a hand with a problem you might be having with your equipment.

Please remember to that Net Control Operators are always needed. Contact Dave KC8YWT to get your name on the list and for more information. It's fun and you will help maintain our 2-meter Net.

For those wanting to get an introduction to traffic handling tune into the SE Michigan Traffic Net 10:15 pm nightly on 146.760 Mhz The Spirit of 76 repeater.

Miscellaneous Notes

Community Emergency Response Teams (CERT).

The Community Emergency Response Team (CERT) Program educates people about disaster preparedness for hazards that may impact their area and trains them in basic disaster response skills, such as fire safety, light search and rescue, team organization, and disaster medical operations. Using the training learned in the classroom and during exercises, CERT members can assist others in their neighborhood or workplace following an event when professional responders are not immediately available to help. CERT members also are encouraged to support emergency response agencies by taking a more active role in emergency preparedness projects in their community.

Time To Plan Ahead

Now is the time to start planning for these big events that are coming during 2011:

1. **The Hamvention in Dayton, May 20th to 22nd.**
2. **ARRL Field Day, June 25th to 27th.**

DX NEWSCONTESTS

SUDAN, ST. Robert, S53R is QRV as ST2AR in Khartoum until the Summer of 2012 while working with the World Food Program. Activity is on 160 to 6 meters. QSL direct to home call.

PAPUA NEW GUINEA, P2. Tim, KD5SSF is QRV as P29ZL from Ukarumpa for the next two years while working as an aid worker. Activity is on 40, 20, 15 and 10 meters using mostly SSB with PSK31 during his evenings and weekends. QSL via operator's instructions.

TOGO, 5V. A group of operators are QRV as 5V7CC until April 28. Activity is on 160 to 6 meters using CW, SSB, RTTY and EME. QSL via DL9MBI.

CENTRAL KIRIBATI, T31. A group of operators will be QRV as T31A from Kanton Island, IOTA OC-043, from April 17 to 28. Activity will be on 160 to 6 meters using CW, SSB and RTTY with six stations active simultaneously from two locations. QSL via W2IJ.

CHAD, TT. Phil, F4EGS is QRV as TT8PK from N'djamena until June 15 while on business. Activity is on 40 to 10 meters using CW, SSB and RTTY. QSL to home call.

WEST MALAYSIA, 9M2. Mirek, VK6DXI will be QRV as 9M8DX/2 from Kuala Lumpur from April 25 to 30 while on business here. Activity will be on the HF bands using CW during his evenings. QSL via SP5UAF.

EUROPEAN RUSSIA, UA. Special event station R25CH is QRV until April 29 from seven districts in the Bryansk province in remembrance of the Chernobyl nuclear disaster 25 years ago. QSL via RW3YC.

VENEZUELA, YV. Special event stations 4M5CW and 4M5M will be QRV on April 27 and April 30, respectively, in celebration of the birthdays of Samuel F. B. Morse and Guglielmo Marconi, respectively. Activity will be on the HF bands using CW, SSB and various digital modes. QSL both calls via W4SO.

ALBANIA, ZA. Operators LZ1UQ and LZ2HM will be QRV as ZA/home calls from April 26 to May 5. Activity will be on all HF bands, including 6 meters, using CW, SSB and RTTY. QSL to home calls.

TRINDADE ISLAND, PP0T. By Cantareira DX Group. From April 29 till June 15. HF; Activity on SSB CW RTTY PSK, perhaps SSTV. QSL via EB7DX.

MARIANA ISLANDS, AH0. From May 1 till May 5. AB2RF will be operating as AH0/AB2RF mainly on RTTY and PSK. QSL via LoTW and JJ2RCJ direct.

AFGHANISTAN, T6PSE. Ops: N6PSE, K3LP, YT1AD, K1LZ, K3VN, AH6HY, UX0LL. Group will operate for ten days (exact dates TBD) from May 1 till May 31. Activity on CW, SSB, RTTY. QSL via W3HMK

OGASAWARA, JD1BMH. JD1BMH will operate from May 4 till May 13. He will be on Chichijima Island; 160-6m. Activity on CW SSB RTTY. QSL via JG7PSJ.

CAYMAN ISLANDS, ZF. DL1THM operating as ZF2TH and DH2AK as ZF2AT from Grand Cayman I. Their stay will be from May 6 till May 13. Activity mainly on 20m, SSB. This will be a holiday style operation. QSL via Buro or direct.

DODECANESE, SX5F. Operators: SV1GRM, SV1HER, SV1RP, SV1RC, SV1QN, SV1GYG, SV2FWV from May 14 till May 22. Farmakonisi Rocky Islet. Activity on HF, CW, SSB and digital. QSL via RAAG buro.

ST BARTHELEMY, FJ. OS1T will be operating as FJ/OS1T, from May 14 till May 22. Activity on 40-6m, SSB and RTTY. QSL via buro or direct.

TUVALU, T2XG. JA1XGI will operate 40-10m, CW, SSB and digital. Operation from May 17 till May 24. QSL via JARL buro or direct.

SVALBARD, JW8HGA. LA8HGA operating from May 19 till May 23. Spitsbergen Island. Operating on HF CW. QSL to LA8HGA via buro or direct

Nebraska QSO Party - 1100Z, Apr 30 to 1700Z, May 1

Florida QSO Party - 1600Z, Apr 30 to 0159Z, May 1 and 1200Z-2159Z, May 1

10-10 Int. Spring Contest, CW - 0001Z, May 7 to 2359Z, May 8

7th Call Area QSO Party - 1300Z, May 7 to 0700Z, May 8

Indiana QSO Party - 1600Z, May 7 to 0400Z, May 8

New England QSO Party - 2000Z, May 7 to 0500Z, May 8 and 1300Z-2400Z, May 8

ARI International DX Contest - 2000Z, May 7 to 1959Z, May 8

VOLTA WW RTTY Contest - 1200Z, May 14 to 1200Z, May 15

FISTS Spring Sprint - 1700Z-2100Z, May 14

Nevada Mustang Roundup - 1700Z, May 14 to 1700Z, May 15

Run for the Bacon QRP Contest - 0100Z-0300Z, May 16

EU PSK DX Contest - 1200Z, May 21 to 1200Z, May 22

CQ WW WPX Contest, CW - 0000Z, May 28 to 2359Z, May 29

MI QRP Memorial Day CW Sprint - 2300Z, May 29 to 0300Z, May 30

10-10 Int. Open Season PSK Contest - 0000Z, Jun 4 to 2400Z, Jun 5

SEANET Contest - 1200Z, Jun 4 to 1200Z, Jun 5

Alabama QSO Party - 1600Z, Jun 4 to 0400Z, Jun 5

SPECIAL EVENTS

04/29/2011 | Royal Wedding Special Event Stations

April 29 - May 9 A number of special event stations will be operating from various locations around the U.K. using the special prefixes GR, MR and 2R. Details: here: <http://www.rsgb.org/operating/weddingcall/> and <http://www.shacklog.co.uk/RoyalWedding.htm>.

05/05/2011 | 50th Anniversary of Alan Shepard's First Manned Space Flight

May 5, 1400Z-2100Z, KA1SKY, Concord, NH. Contoocook Valley Radio Club. 28.400 21.300 14.250 144.200. Certificate. Wayne Santos, 163 Hartshorn Rd, Barnstead, NH 03218. Operating at the McAuliff-Shepard Discovery Center. Station is a collaborative project of CVRC, NEAR-Fest and the Discovery Center. www.k1bke.org/planetarium/ka1sky.htm

05/07/2011 | Titan Missile Museum 25th Anniversary Special Event

May 7, 1500Z-2300Z, WE7GV, Green Valley, AZ. Green Valley Amateur Radio Club. 14.245 14.242. Certificate & QSL. Green Valley Amateur Radio Club, 601 N La Canada Dr (SAV), Green Valley, AZ 85614. Titan Missile Site in Sahuarita, Arizona. gvarc.us

05/07/2011 | 1869 Transcontinental Rail Road Golden Spike Commemorative

May 7-May 10, 1600Z-0000Z, W7G, Ogden, UT. Ogden Amateur Radio Club. 14.250 21.280 25.500 50.350. QSL. Ogden Amateur Radio Club, PO Box 3353, Ogden, UT 84409. Times are daily. ogdenarc.org

05/13/2011 | 100th Indy 500 Anniversary

May 13-May 29, 1500Z-2200Z, W9IMS, Indianapolis, IN. Indianapolis Motor Speedway Amateur Radio Club. 21.340 14.240 7.240 3.840. Certificate & QSL. W9IMS, PO Box 18495, Indianapolis, IN 46218. SASE for QSL. \$4 for certificate. Must work all three races in one year to qualify for certificate. www.qrz.com/db/w9ims

05/14/2011 | Armed Forces Day, National Maritime Day, Navy Nurse Corps Established 1908, MARS Amateur Radio Crossband Operations Event

May 14, 1600Z-2359Z, NI6IW, San Diego, CA. USS Midway (CV-41) Museum Radio Operations Room. SSB 14.320 7.250 PSK31 14.070 D-STAR 012C and 2 m/70 cm SOCAL rpters; Crossband kHz: 4003.0/3935.0 7351.5/7250.0 14463.5/14320.0 20936.0/21275.0 80 40 20 15 m. QSL. USS Midway Museum Radio Room, 910 N Harbor Dr, San Diego, CA 92101. kk6fz@arrl.net

05/14/2011 | Dutch National Windmill Weekend - Eendracht Windmill

May 14-May 15, 0000Z-2359Z, PD6MILL, Gieterveen, NETHERLANDS. Area amateurs. SSB 10 20 40 m digital possible 2 m. QSL. eQSL or direct to Bernard Zuidema, PD7BZ, Zetveld 45, Schoonoord, 7848CX, NETHERLANDS. All QSOs answered with QSL via bureau, include SAE if you want QSL direct. See URL for list of participating Windmills. www.pd6mill.com

05/16/2011 | Lee Shutter Telegraph over 200 Years

May 16-May 21, 0900Z-0900Z, GB2LST, Nr Exeter, DEVON, GREAT BRITAIN. RSGB. 14.190. QSL. John Wakefield, 'Oakhurst', Lower Common Rd, West Wellow, Romsey SO51 6BT, GREAT BRITAIN. www.qrz.com

05/18/2011 | Mt St Helen QSO Party

May 18-May 22, 2100Z-2300Z, W7AIA, Vancouver, WA. Clark County Amateur Radio Club. 14.245 7.240 3.840. Certificate & QSL. W7AIA Special Events, PO Box 1424, Vancouver, WA 98668. SpecialEvents@w7aia.org or www.w7aia.org

05/21/2011 | Air Power Museum

May 21-May 22, 1200Z-2200Z, W2GSB/APM, Farmingdale, NY. Great South Bay Amateur Radio Club. 14.185 7.255 3.945 14.070 PSK. QSL. W2GSB/APM, PO Box 1356, West Babylon, NY 11704. Operating from the Air Power Museum at the historic Republic Air field Home of Rosie the Riveter and many vintage war planes that defended our great country. 3 stations operating from inside the original hanger for world war II. Please feel free to chew the rag with our veteran operators at this event. Modes SSB CW PSK www.GSBARC.org

05/21/2011 | Maker Faire

May 21-May 23, 0100Z-1159Z, K6M, San Mateo, CA. Blackberry REACT. 14.250. QSL. Phil Stripling, 301 S Grant St, San Mateo, CA 94401. QSL via AF6WI@arrl.net; special event QSL card will be mailed. makerfaire.com

05/28/2011 | Commemorating Memorial Day

May 28-May 30, 1500Z-2200Z, W0FSB, Waterloo, IA. Five Sullivan Brothers Amateur Radio Club. 21.240 14.240 7.240. Certificate & QSL. Five Sullivan Brothers ARC, 4015 Independence Ave, Waterloo, IA 50704. t-mc-nulty@msn.com

05/30/2011 | Memorial Day

May 30, 1500Z-2245Z, W5KID, Baton Rouge, LA. Baton Rouge and USS Kidd Amateur Radio Clubs. Gen class bands CW in QRP freqs 20 m SSB 40 m CW preferred other bands possible. QSL. W5KID, 305 S River Dr, Baton Rouge, LA 70802. lsu.edu/brarc/uss_kidd.htm

2011 SKYWARN



2011 MICHIGAN QSO PARTY

