

STATIC SHEET

Are you ready for Field Day 2012?

The 2012 Des Moines Radio Amateurs' Association and Amateur Radio Technical Society W0AK Field Day will be held Saturday, June 23, beginning at 1 p.m. and ending the next day, Sunday, June 24, at 1 p.m. This year's location is at Shelter #1 of Fort Des Moines Park, 7200 SE 5th Street in Des Moines.

We will again be operating as a 2A station this year, featuring two main HF stations, an HF Get-on-the-Air (GOTA) station, and a VHF station. All radios will be on emergency power.

Last year, W0AK logged an amazing 1,448 QSO's... can we do more this year?

A potluck dinner will begin at around 5 p.m. -- please bring a hot and cold dish if you attend. The club will provide hamburgers and hot dogs.



This is a great opportunity not only for current hams to get on the air and operate, but also for any visitors to come and see what our hobby is all about! The GOTA station is intended for use by non-hams, newly-licensed hams,

or hams that are "generally inactive" on HF.

If you are curious about antenna theory or station setup, this will also be an excellent opportunity to get educated by helping set the event

Continued...

In This Issue:

Field Day 2012	1
President's Soapbox	3
Recent Meetings	4
Robert M. Evans Memorial Award	5
Elections Ballot	4
An Introduction to Arduino	7
DMRAA Calendar	9

Officers and Board

Kevin Sanders	KØKDS	President
George Noble	KK7FM	Vice-President
Kirk Nelson	WL7CLI	Secretary
Bill Claypool	NUØQ	Treasurer
Bruce Brumm	KCØZMT	
Ron Hobbs	NØXWI	
Chuck Hoveland	WØIBG	
Dennis O'Brien	KAØDOS	
Ben Sinclair	KCØZMX	

Field Day 2012

up, beginning around 9 a.m. There will be refreshments on hand for the set-up crew around lunchtime.

Field Day is all about having fun! Attendees will have a chance to try new or different radios, build friendships with other radio amateurs, learn new skills, and make contacts with people around the world. Everyone is welcome to attend, from the serious contester to the unlicensed newcomer. We hope that anyone who is interested in seeing what amateur radio is all about will come out for Field Day and bring a friend.

The key to a successful Field Day is also its volunteers! In addition to radio operators, we will need help setting up between around 9 a.m. and 1 p.m. Saturday, and then tearing down beginning around 1 p.m. Sunday. If you have specific skills or equipment you would like to assist with in Field Day preparations, it is preferred to contact the club in advance at info@dmraa.com to ensure that everyone and everything is coordinated.

Fort Des Moines Park can be accessed from Southeast 5th Street, just southwest of Southridge Mall. From Southeast 5th Street, use the main park entrance. Shelter #1 will immediately be on your left.

We look forward to seeing everyone there! For up-to-date information, visit the Field Day website at <http://www.dmraa.com/fieldday>.



President's Soapbox

Kevin Sanders - KØKDS

Thank you for making the DMRAA Hamfest a success!

Around 400 people passed through the doors of the Elwell Center at the Iowa State Fairgrounds on Saturday, April 21, for the event. Several commercial vendors were on hand, including Radio City, D&L Antenna, DC ACE Electronics, W0TOK Books, and the Iowa Section and Midwest Division of the American Radio Relay League also had officials present to talk with hams.

The testing session also proved successful, with six technicians, three generals, and one extra leaving the hamfest with new licenses or upgrades. Well done!

Also congratulations to George Noble KK7FM for being selected as the 2012 Robert M. Evans Memorial Award.

I would certainly be remiss if I didn't recognize the many hands that help organize the hamfest, and then set it up, and tear it down. A lot of effort

goes in to making this event a successful and well-attended hamfest. In a way, the health of the club can be measured by how many hams pitch in for events such as the hamfest.

Thanks to Scott Kirstein N0OOD for helping set up and tear down, the staff at Freeman Decorating for assistance with the tables, Bruce Brumm KC0ZMT for chairing the hamfest committee, Kirk Nelson WL7CLI for assisting with a medical emergency, Tom Reis N0VPR for helping set up and tear down and letting us borrow his PA system, Ron Hobbs N0XVI for securing the location and helping set up and tear down, Ben Sinclair KC0ZMX for manning the consignment table and helping tear down, Jerel Merical KD0FGJ for helping set up, Roger Pokorny N0NUC for operating the talk-in station, Bill Claypool NU0Q and Craig Long K0CSL for handling admission/billing/front table duties, Marcus Kirstein KC0YGS for helping tear down, Rick Allen N0CFL and all of the volunteer examiners that administered testing at the hamfest...

and lots of other volunteers who helped out along the way.



We've already reviewed this year's hamfest to identify its strengths and weaknesses, but it's certainly not too late to add your two cents. If you want to pass your feedback on to the hamfest committee, see one of the board members at a meeting or send your comments to info@dmraa.com. We want to hear from you so we can continue our growth and success!

The club now looks to our next major event, will be the Des Moines Radio Amateurs' Association and Amateur Radio Technical Society W0AK Field Day, which will be held June 23-24 at Fort Des Moines Park. More information can be found on the website at <http://www.dmraa.com/fieldday> -- and continue to check for updates as we get closer to the date.



Recent Meetings

March's meeting was presented by Matthew Nelson KB0MGQ on the topic of amateur radio and high-altitude ballooning. Matthew is the project manager and engineer for the Aerospace Engineering Department at Iowa State University. He gave a very interesting multimedia presentation not only on ballooning, but also some pretty awesome projects his lab at ISU has been working on!

April's meeting was a more casual meeting, giving DMRAA members an opportunity to have some eyeball QSO's, get some help with programming their radios, and adding PowerPoles to their rigs.

May's meeting will be Field Day 101, presented by Dean Madsen N0XR. The interactive multimedia presentation will have new content added since last year, so it will be an excellent meeting for both Field Day newbies and seasoned operators!



Election Ballot

The following is the ballot for the 2012-2013 selection of DMRAA Officers and Board. The election will be held at the May general meeting on May 22. You must be a DMRAA member in good standing to be able to vote. Nominations can also be taken from the floor at the meeting.

President (1 year term) – Kevin Sanders, K0KDS

Vice President (1 year term) – George Noble, KK7FM

Secretary (1 year term) – Mark Globuschutz, K0MJG

Treasurer (1 year term) – Bill Claypool, NU0Q

Board members (2 year terms)

Select only three candidates

Ron Hobbs, N0XWI

Scott Kirstein, N0OOD

Dennis O'Brien, KA0DOS

Ian Walmsley, KD0PPI

The following board members have one year of their two-year term remaining: Bruce Brumm, KC0ZMT; Craig Rose, KC0YHU; and Ben Sinclair, KC0ZMX.

Robert M. Evans Memorial Award

Congratulations to George Noble KK7FM for being selected as this year's recipient of the Robert M. Evans Memorial Award!

Noble was selected by the DMRAA board of directors because of his efforts to advance amateur radio in central Iowa. Currently serving as the DMRAA vice president, Noble has also served the DMRAA as president. He also serves as chairman of the programming committee, finding speakers to present interesting topics to DMRAA members at each month's general meeting. He also assists the education committee with technician licensing classes in both Des Moines and Waukee, and was one of the founders for the recent extra-class study group. He is also active in volunteer examiner tests.

The Robert M. Evans Memorial Award is presented annually to the member of the Des Moines Radio Amateurs' Association who best exemplifies the high ideals and dedication to amateur radio which so marked the life of Bob Evans, W0AUL. He was a founder of the DMRAA, an officer of the board of directors and a ham's ham. His desire was to interest those who were curious about the hobby, assist them in learning and encourage their

participation in DMRAA activities, all to the end of creating a technically -versed and proficient body of amateurs dedicated to service in the finest tradition of amateur radio.

Created by the Des Moines Radio Amateurs' Association as a memorial in August 1979, this award is given each year during the annual DMRAA Hamfest. Award winners are selected by the board of directors of the DMRAA.



Area Nets

Ames

Sunday	147.240+	7:00pm	Story County ARES Net
Wednesday	147.375+ t114.8	9:00pm	Cyclone Amateur Radio Club

Boone

Sunday	146.850-	9:00pm	Boone County ARES Net
--------	----------	--------	-----------------------

Des Moines

Sunday	146.610- t114.8	8:00pm	Central Iowa ARES Net
Sunday	146.940- t114.8	follows ARES	Central Iowa Technical Net
Sunday	146.610- t114.8	9:00pm	ARTS Net
Wednesday	146.610- t114.8	11:00pm	Night Owls Net
Thursday	146.940- t114.8	7:00pm	Polk County ARES Net

Marshalltown

Sunday	147.135+ t141.3	6:00pm	CIRAS Net
--------	-----------------	--------	-----------

Perry

Monday	146.610- t114.8	8:00pm	Dallas County ARES Net
Monday	146.610- t114.8	follows ARES	HARC Net

Webster City

Monday	147.015+	7:00pm	Hamilton County Radio Club Net
--------	----------	--------	--------------------------------

Statewide Nets

Mon-Sat	3,970	12:30pm & 5:30pm (6:00pm summer)	Iowa 75 Meter Traffic Net
Sunday	3,970	5:30pm (6:00pm summer)	Iowa Traffic and Emergency Net
Monday	3,990.5	5:30pm (1st Monday of the month)	Iowa RACES Net

ARES Nets serve several purposes:

- Operator training
- Training of Net control operators
- Passing formal traffic

Please check in!

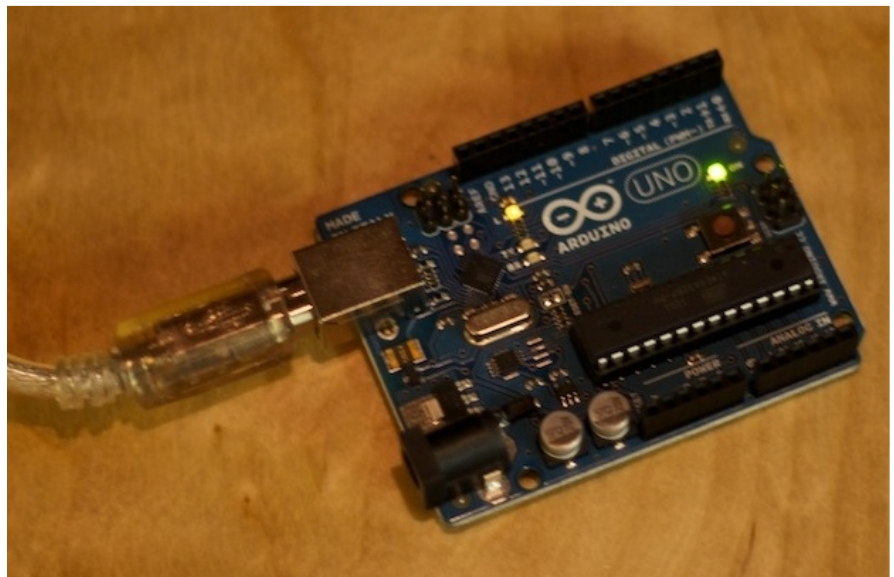
An Introduction to Arduino

Ben Sinclair - KCØZMX

Arduino is a fun and easy to learn microcontroller platform. Based on Atmel microcontrollers, the Arduino platform provides a single board containing a microcontroller, USB interface, I/O ports, and other components necessary to run the microcontroller. By including everything needed on a single board, it's easy to get started with Arduino projects.

Arduino boards are available in a variety of designs, including the common Uno board, the round Lily Pad, and small form factor boards. The Uno board is widely used and has a standard form factor, making it compatible with various "shields" that snap onto the Uno and provide capabilities such as ethernet, wifi, or packet radio.

The programming language and development environment used with the Arduino is called Processing, and it includes a C++ like language and the tools needed to load programs onto Arduino boards.



The Uno

The Uno board is the standard board, and is recommended for new Arduino users. It's powered by 5V DC, either via USB or an external power source. The Uno provides 14 digital and 6 analog I/O pins and has 32KB of Flash memory. An LED and momentary switch are also provided and wired up to the I/O ports.

The Uno is widely available online, and is now available at Radio Shack stores for around \$35.

Getting Started

Once you have an Arduino board, you'll need a USB cable and the Processing development

tools. Processing is a free, open source system and is available for Windows, Linux, and OSX at <http://arduino.cc>.

The first program you'll probably try on an Arduino is one that simply blinks the on-board LED. Processing includes a great library of example code, including an LED blinking program.

To try it out, find "Blink" in the examples included with Processing. To run Blink, just connect your Arduino via USB and hit the Run button in the upper left. Processing will compile the program, load it to your Arduino, and run it immediately. If everything is connected right, your LED will be blinking!

Continued...

An Introduction to Arduino

Ben Sinclair - KCØZMX

There is a lot more to learn in order to build useful Arduino projects, but a great ecosystem has developed around the platform with books, web sites, hardware, and online communities that are very helpful.

Arduino in Ham Radio

What can you do with Arduino in ham radio? The answer is just about anything! At least two DMRAA members have built the Radio Shield, which is a packet radio interface that snaps onto an Arduino board and connects to your radio. It's basically a programmable TNC, so it can be used with APRS or any other packet radio system.

Other Arduino projects could include morse code keyers, remote station control systems, test equipment, and more!

Resources

The official Arduino site

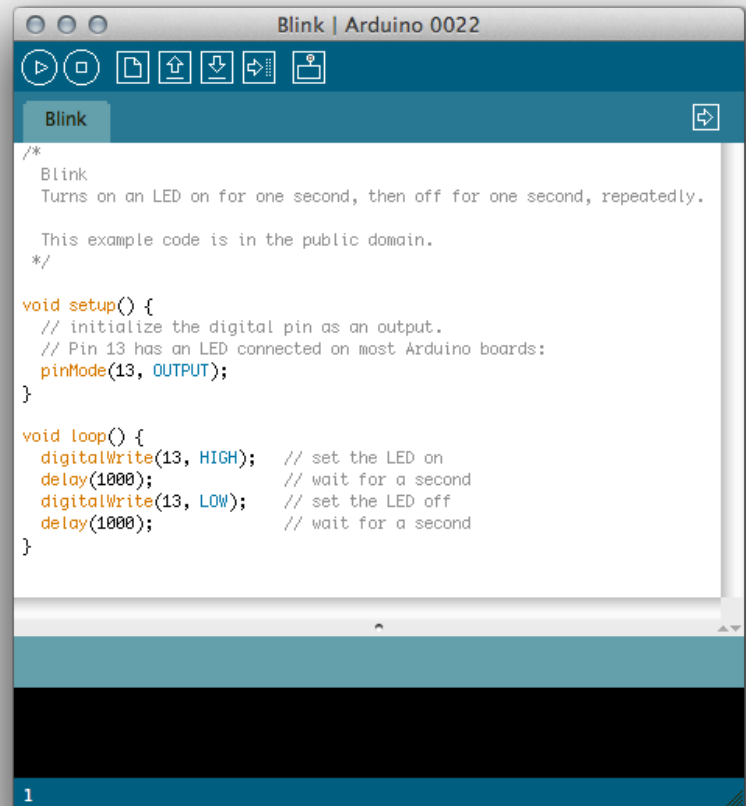
<http://arduino.cc>

An online store that carries lots of Arduino hardware

<http://sparkfun.com>

The Radio Shield

http://www.argentdata.com/catalog/product_info.php?products_id=136



2011 DMRAA Calendar

General Meetings and Events

22 May, 2012

26, June, 2012

23-24 June, 2012 - Field Day!

24 July, 2012

Board Meetings

5 June, 2012

7 Aug, 2012

Testing Sessions

7/15/2012 1:00pm

Registration starts at 12:30 PM (no admittance after 1pm)

Johnstone Supply Classroom (2nd floor)

11000 Justin Drive

Urbandale, IA 50322

Contact: Rick Allen NØCFL

(515) 795-2162

n0cfl@arrl.net

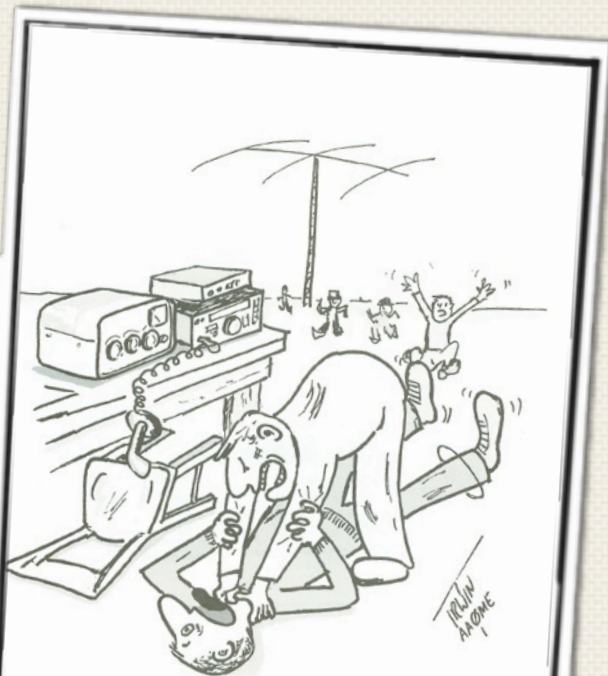
06/09/2012

Boone

Boone Amateur Radio Klub

Kruck P&H Warehouse Classroom

9:00 AM (Walk-ins allowed)



If they hadn't considered it before, the Field Day Committee now knew they needed to set up a second operating position.

Hungry and looking to meet local hams?

Friday's at the City Buffet

on University (next to Toys R Us) a group of hams meet for lunch.

This is an informal meeting and provides an excellent opportunity to pass information while enjoying a nice selection of Chinese cuisine. The group usually arrives around 11:45 and breaks up at about 1:00. All are welcome, including family members.



April Board Meeting Minutes

Minutes – April 3, 2012

The meeting convened at 7:05 p.m. with the following people in attendance:

Club Officers:

President: Kevin Sanders, K0KDS
Present

Vice President: George Noble, KK7FM
Present

Treasurer: Bill Claypool, NU0Q
Present

Secretary: Kirk Nelson, WL7CLI
Present

Board Members:

Bruce Brumm, K0ZMT Present

Ron Hobbs, N0XWI Present

Chuck Hoveland, W0IBG Absent

Dennis O'Brien, KA0DOS Absent

Craig Rose, K0YHU Present

Ben Sinclair, K0ZMX Present

Guests:

Dean R Madsen, N0XR

Review of Last Meeting Minutes:

The February Board Meeting minutes were read and approval was motioned by Craig Rose, K0YHU seconded by Ben Sinclair, K0ZMX and approved.

Treasurer's Report:

\$9,106.21

Unfinished Business:

Hamfest: As of now we do not have a firm commitment from D&L. Vendors have been told that there are no free admission tickets with a table. Scott Kirstein, N0OOD is working with the Fair Grounds as to when the tables have to be removed. The Bob Evans Award recipient has been selected and will be presented at the Hamfest.

Field Day: The club still does not have written confirmation on the use of the shelter. It is the first shelter on the left as you enter the park. The Field Day committee will meet at 6:00 pm just prior to the monthly DMRAA Club meeting on April 24, 2012.

New Business:

Board member nominations: There are several Board Members whose term will end this year. These are the President, Vice President, Secretary, Treasurer, and three Board Members.

Polk County ARES update: The next ARES meetings will be held at the Polk County EOC at 7:00 PM on April 16, 2012. Rick Allen, N0CFL is still looking for a few operators to support the Drake run on April 28, 2012.

Subcommittee Reports:

Hamfest: See Unfinished Business.

Field Day: See Unfinished Business.

Repeaters & Packet: The work day to get the equipment installed at Lutheran Hospital went very well with the end results that all equipment has been installed and the station is now in operation. The 147.450 frequency is not responding; it is not sure if the radio might have failed. Dean Madsen, N0XR is working on creating an Access Roster for the site to give to Lutheran Hospital.

Education: There are only 2 weeks left of the Technician Class at Waukee. There is also a renewed

Continued...

interest in a CW class, just not sure how to conduct one.

Program: The April program has not been finalized at the time of this meeting. George Noble, KK7FM is still working on either Adaptive radio or a HT/Mobile radio programming/function use night. May's program will be by Dean Madsen on Field Day logging.

Communications/PR: Nothing new to report. The Static Sheet will be out shortly.

Membership: No report. Discussion was held on way to entice new members.

Awards: The Bob Evans award will be presented at the Hamfest.

Christmas Party: No report

Chili Feed/Auction: No report

Questions, comments, additions?: None were presented

Adjournment was motioned by Craig Rose, KC0YHU and 2nd by Ron Hobbs, N0XWI 2nd and the meeting was adjourned at: 8:11 p.m.

10M Repeater Correction!

The 10M repeater frequency was listed incorrectly in the last issue. The correct frequency is as follows:

10M: W0AK 29.620- Offset: .100 Tone: 103.5

You now have the option of paying for up to 3 years when renewing your membership in the DMRAA:

1 Year = \$20

2 Years = \$40

3 Years = \$60

See Bill Claypool NØUQ for details.

May Board Meeting Minutes

Minutes – May 1, 2012

The meeting convened at 7:10 P.M. with the following people in attendance:

Club Officers:

President: Kevin Sanders,
K0KDS Present

Vice President: George Noble,
KK7FM Present

Treasurer: Bill Claypool,
NU0Q Present

Secretary: Kirk Nelson,
WL7CLI Absent

Secretary, Acting : Mark Globuschutz,
K0MJG Present

Board Members:

Bruce Brumm, K0ZMT
Present

Ron Hobbs, N0XWI
Present

Chuck Hoveland, W0IBG
Present

Dennis O'Brien, KA0DOS
Present

Craig Rose, K0YHU
Present

Ben Sinclair, K0ZMX
Present

Guests:

Dean R Madsen, N0XR

Scott Kirstein, N0OOD

Review of Last Meeting Minutes:

The April Board Meeting minutes were read; approval was motioned by Ron Hobbs, N0XWI, seconded by Dennis O'Brien, KA0DOS and all voted to approve.

Treasurer's Report:

Current balance is \$12,045.06

Unfinished Business:

Hamfest: 2012

1. Requested the submission of any unpaid bills
2. Attendance at the Hamfest was approx 380.
3. Received no negative feedback on the event
4. It was suggested that the number of tables be tightened up, keep some tables in reserve for walk-up individuals wanting a table the morning of the event.
5. It was suggested that the testing be conducted on the floor of the Hamfest in the future.

Hamfest: 2013

1. Tentative date is April 20.
2. Ron H. will attempt to contact someone in the Kansas City Amateur Radio club to identify if they have a date established for their Hamfest to eliminate a conflict between the two club Hamfest dates.
3. Ron H. will identify if the same facility is available for our use next year, on the planned date.

Field Day:

Continued...

1. Location will be Fort Des Moines County Park at South East 5th, off of Army Post Rd.
2. We have received written confirmation on the use of the shelter
3. Subcommittees
 - a. Food committee – Chuck Hoveland to provide brisket . Burgers and Hot Dogs will also be made available from the club. Additional food will be provided via a Potluck format.
 - b. Power – A tent is available for use. Lights will be required and will need to run off a generator.
 - c. A Field Day committee meeting will be held at the site in the future.

New Business:

1. Interest was expressed in including some advertising in the Static Sheet of a local source of radio related equipment. It was suggested that a calling card size would be appropriate.
2. MS Walk, May 19. Additional operators are still needed. Contact Scott Kirstein, (515) 490 7414

Polk County ARES update: DMRAA donated a table at the Ham Fest for the ARES club.

Subcommittee Reports:

Hamfest: See above.

Field Day: See above

Repeaters & Packet: The 147.450 frequency is not responding; not sure if the radio might have failed. Dean Madsen, N0XR is working on creating an Access Roster for the site to give to Lutheran Hospital.

147.555, is working,

145.010 is working

Education: Currently exploring having a training class as part of the DM Adult Ed. Program.

The question was raised if there is a General class planned for the coming year.

Program: The May program will be on Field Day activities by Dean Madsen.

Possible future program topics:

- Remoting a transmission station
- CW,
- Slow Scan TV,
- ARES voice/speech protocol
- ARES Go boxes, radio type and / personal emergency – for August 2012

Communications/PR: The Static Sheet will be out shortly with a more complete review and proofing.

Membership: Chuck Hoveland will provide an updated membership list.

Awards: none planned at this time

Christmas Party: No report

Chili Feed/Auction: No report

Questions, comments, additions?: None were presented

Adjournment was motioned by Chuck Hoveland, WOIBG and 2nd by Ron Hobbs, N0XWI 2nd and the meeting was adjourned at: 8:53 p.m.

New Hams!

Several new hams took the technician class in Waukee:

Rob (KD0RTB) is from Clive and is interested in D-Star and APRS. Rob says he is looking forward to Field Day.

Tessa (KD0OJI) says she's been busy with non-Ham activities, but wants to get involved with ARES and Skywarn. She is currently running a Yaesu FT-60R and plans to get her general license and start operating HF.

Michael W. Richardson (KD0RQG)

I live in Norwalk and have for many years.

I am a retired Police Chief and currently a Des Moines Police Reserve officer, Norwalk Fire Medic, and Public Safety officer at Mercy.

I am married; my wife works at Principal Financial Group. We have 2 Children and 3 grand daughters. My son is a Firefighter/Paramedic and my daughter is a Certified Medical Assistant.

I currently hold a Technician license, KD0RQG and my primary interests are in emergency communications.

My communications background has been in public safety communications. I was the Chair of communications in the Metro Emergency planners group and a member of the Executive Committee of the Metro Incident Communications Radio Network (MICRN).

Mark Globuschutz (K0MJG)

Married with four grown children and eleven grand children. Certified Master Installer with Hunter Douglas Corp., independent painting contractor and Consultant contracting as a Business Analysis, Course Developer, Operations/Process Development Designer and IT Application Architect.

Enjoys sailing, playing mandolin, guitar and bass, gardening, teaching Shotokan Karate, Woodcarving, Fly fishing and Fly tying, and of course, Ham Radio. Currently has an Amateur Extra Class license and a General Radiotelephone Operator License.

In the Ham Radio environment he enjoys communicating with other Hams both on the air and in person.



DES MOINES RADIO AMATEURS ASSOCIATION

The Static sheet is bi-monthly (six per year) publication of the Des Moines Radio Amateurs Association. It is provided via email to the membership of the DMRAA. Please feel free to forward to prospective club members and interested Amateur Radio Operators.

The DMRAA is affiliated with the ARRL,

The national association for Amateur Radio.

Des Moines Radio Amateurs Assn.

P.O. Box 88

Des Moines, IA 50301

DMRAA.com

E-mail: info@dmraa.com



Membership Application

Name: _____

Address: _____

City: _____, State: _____ Zip: _____

Phone Number: (____) _____ Email: _____

Call Sign: _____ Class: (E) (A) (G) (T)

ARRL Member? Y / N

What are your primary interests in amateur radio? _____

What are you interested in learning about? _____

How would you like to volunteer with the club? _____

Dues:

\$20 Single

\$40 2 years

\$60 3 years

Mail application and payment to:

DMRAA

P.O. Box 88

Des Moines, IA 50301

Email: info@dmraa.com