

STATIC SHEET

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AUGUST 2018

Field Day 2018, A great time was had by all playing Radio

Ok the weather was great Saturday for set up. Yellow Banks Park Shelter #1 is a great spot. Not too hot and not too cold. It was a little cloudy but that was ok. Wow the folks that were setting up the site really knew what they were doing! I did very little but they let me run the Drill to crank up one of the towers. Oh yes I went to the hardware store for some missing hardware for the Beams. There were two towers with beam/rotors and of course the two ARES Trailers. If you have not seen the inside of them you should. They looked like a professional installation.

The two Honda Generators running were so quiet you could stand right by them and carry on a conversation no problem. The HF equipment I saw was Elecraft, TenTec, and an ICOM 746PRO. That did not count the 2Meter and 440 equipment. Lots of Rotor Control cables and Co-AX for the Antennas. Lots of generous Hams loaning some great equipment. This would have been a great spot to get some operating time on great equipment.

I had to leave by 1PM so did not see much operating. I



enjoy watching the set up and try to help in a small way but it looked like clockwork to me they way things went together. I wish I could have stayed around to watch the operation but-

I even missed the tear down Sunday and hope they made it before the rain.

I have attended many Field Day events at many locations and each year it seems to get better. I remember stringing up wire antennas in trees using 1/2 pound of washers on the end of a nylon string and winding up like David and Goliath and launching those washers over the tree until we got it where we wanted. There was one time, across from the Capitol, when a windy **rainstorm** came up. We picked up a Kenwood TS520, the next morning in one of the operating tents, and the water poured out of it! I enjoy just talking with the folks putting up the equipment and the DMRAA seems to have one thing in mind. COME OUT AND HELP AND HAVE A GOOD TIME THEN GET SOME OPERATING IN. Well enough on old stories.

I will of course include some photos and let them speak for themselves.

I included just one Aerial photo but took many more (48). HA

OH YES WHERE WERE ALL OF YOU THAT MISSED IT?

73,
Larry, KAØFTO

Field Day
Results
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Come enjoy the fellowship

DMRAA
meetings are the
4th Tuesday of
the month. Be
sure and mark
your calendars!



Upcoming Meetings

August 28th Meeting

Join us for a presentation by Scott Kirstein, NØOOD on Emergency Preparedness. Are you prepared?

August 28th, 2018

7:00 PM

Waveland Room, 2nd floor
Plymouth Congregational Church
42nd & Ingersoll Des Moines, IA

September 25th, 2018

To Be Announced

7:00 PM

Waveland Room, 2nd floor
Plymouth Congregational Church
42nd & Ingersoll Des Moines, IA
June 26th, 2018

The DMRAA meetings provide an excellent opportunity to meet new friends and enjoy fellow hams. Please feel free to invite newly licensed amateurs to attend.

Future Meetings

We're looking for meeting ideas and presenters.

Please feel free to make suggestions and offer to help with a presentation.

Contact
Bruce Brumm
KCØZMT
at info@dmraa.com



You can Help?

Are you interested in helping the club? There are many ways you can help -- assisting with an event, taking a few pictures or even writing a piece for this newsletter.

Past Meetings

We're Sorry

Unfortunately the editor was unable to attend the last DMRAA meeting. We understand that Larry, KAFTO did a bang up job explaining the ins and outs of fiber optic systems for phone communications.



If you have any suggestions for future meetings, please contact President

Bruce Brumm
KCØZMT at info@dmraa.com



**Giving back through
community service**

Scott Kirstein
NØOOD
Polk County ARES EC
515 490-7414 (cell)
n0ood@arri.net



Polk County ARES



Thanks to all who helped out again with the State Fair Parade. Thanks as well to Tom NOVPR for his leadership in putting this event together. (One day, perhaps it will work out better with my work schedule and I can participate as well. :))

Our next event is the Rowing Regatta on September 29th, and if you

are available to help out, just click the link on the ARES tab on the website, and sign up.

My apologies for having to cancel the quarterly ARES meeting for July. Having said that, due to the timing our host - Polk County Emergency Management Agency - was using the meeting room...responding to an

emergency.

Finally, if you are interested in honing your skill as a Net Control Station, we have an opportunity to run the Polk County ARES net one Thursday a month. Please contact me directly if you'd like to help out.

Scott, NØOOD



Roland, KCØIEA. Net Control for the Iowa State Fair Parade in EMCOM-1
On the TV is IPTV's coverage of the Fair Parade. "Situational Awareness"

Polk County ARES Meetings
Polk County EOC at
1907 Carpenter Avenue
Des Moines, IA



ARES MEETINGS DATES 2018

7:00 PM

Monday October 8th

**Polk County Emergency
Operations Center
1907 Carpenter
Des Moines, IA**

2018 ARES Events

Head of the Des Moines Rowing Regatta
September 29th, 2018
Des Moines Marathon, October 21st, 2018
Living History Farms Fun Race, November 17th,
2018

Sign-up online at DMRAA.com/ARES

2018 DMRAA Calendar

Calendar 2018

General Meetings and Events

28 August, 2018
 25 September, 2018
 23 October, 2018
20 November, 2018 Chili Feed & Auction
11 December Christmas Party
 22 January, 2019
 26 February, 2019
 26 March, 2019
 23 April, 2019
 28 May, 2019
22—23 ARRL Field Day
 25 June, 2019

Board Meeting Date

4 September, 2018
 2 October, 2018
 6 November, 2018
 4 December, 2018
 1 January, 2019
 5 February, 2019
 5 March, 2019
 2 April, 2019
 7 May, 2019
 4 June, 2019
 2 July, 2019
 6 August, 2019
 2 September, 2019



Plymouth Congregational Church
 42nd & Ingersoll
 Des Moines
 7:00PM



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 Scott Kirstein
 NØOOD
 for details.
 Dues are calendar year

President's Soapbox

The State Fair is now in full swing as we enjoy the end of summer. Take some time to enjoy the fine weather while we have it available to us. Soon enough we'll be trapped indoors waiting for the arrival of Spring. The plus side is that Winter gives us more time to operate. Try out a new digital HF mode or work some contests!

As you may recall, an open board position remained after the elections in May. Dennis O'Brien, KAØDOS, recently volunteered and was consequently appointed by me to fill this seat which will be held until elections in May of 2020. Dennis is of course well-known in the club and has previously served on the board. He also remains very involved with the Education Committee and events such as

the Christmas Party. We thank him for his willingness to serve, and welcome his expertise and guidance.

As noted elsewhere in this publication, the club will be sponsoring a special event station in early November at the Fort Des Moines Museum and Education Center.

Dennis O'Brien, KAØDO and Bob Johnson, WØSMS are driving this effort. The station will use the club call sign WØAK and a special QSL card is being prepared. Please review that article and contact them if you are interested in participating.

There is also an opportunity for us to use some areas at that space for club purposes such as meetings and licensing classes. In fact, we're going to have the September board meeting at that facility, and the next one -day Technician license

class will also be held there. We'll continue to investigate this relationship and see if there are other uses beneficial to us, such as a club station location.

73,
 Bruce, KCØZMT



"Happiness is having a large, loving, caring, close-knit family - in another city."

George Burns



Don't forget to pay your 2018 DMRAA Dues



Have you
checked into a
net lately? →

**ARES Nets serve
several purposes**

- **Operator training**
- **Training of Net
control operators**

Please check in!

Area Nets

AMES

Sunday	147.240+	7:00pm	Story County ARES Net
Wednesday	147.375+ t 114.8	9:00pm	Cyclone Amateur Radio Club

BOONE

Sunday	146.850-	8:00pm	Boone County ARES Net
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CRESTON

Sunday	443.400+ t 151.4	8:30pm	SW Iowa Amateur Radio Assn.
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DES MOINES

Sunday	145.390- t 114.8	7:00 pm	Saylorville Fellowship Net
Sunday	29.670- t 103.5	7:30 pm	Iowa Ten Meter Net
Sunday	146.610- t 114.8	8:00 pm	Central Iowa ARES Net
Sunday	146.940- t 114.8	follows ARES net	Central Iowa Technical Net
Sunday	443.400 t 151.4	8:30 pm	SW Iowa Amateur Radio Assn Net
Monday	146.940- t 114.8	7:00 pm	DMRAA information Net
Wednesday	53.250-	8:30 pm	Iowa 6 Meter Net 1.7mhz-
Thursday	146.940- t 114.8	7:00 pm	Polk County ARES Net

INDIANOLA

Saturday	146.60- t 114.8	7:30am	Warren County ARES Net
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PERRY

Monday	145.190- t 114.8	8:00pm	Dallas County ARES Net
Monday	145.190- t 114.8	follows ARES net	HARC Net

STATEWIDE NETS

Sunday	444.725+	7:30 pm	Iowa DMR User Group Net
Monday—Saturday	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



Amateur Radio Testing Sessions



Des Moines 1:00pm

September 16
November 18

Registration starts at 12:30 PM (no admittance after 1pm) Location: Johnstone Supply Classroom (2nd floor) 11000 Justin Drive Urbandale, IA 50322

Contact: Rick Allen NØCFL
(515) 795-2162
n0cfl@arrl.net

Ames

No Summer sessions
announced

Location ISU Campus –
Building and Room TBA

Contact: George Oster,
NP2N
515-233-3535

Boone 9:00am

August 11, 2018
October 13, 2018
December 8, 2018

Time: 9:00 AM
Location: Conference room
behind the cafeteria at the Boone
County Hospital, 1015 Union St,
Boone, Iowa

Contact: Steve NØNEU
(515) 432-4006

Marshalltown 9:00am

December 1, 2018

Check-In: 9:30 AM
Exam Starts: 10:00AM
Location: RACOM Corporation
201 West State Street
Marshalltown, IA

Contact:
Brian Krumm, NØMXK
n0mxk@arrl.net
641-752-9658

Time to find a new home for your extra gear?

This Buy, Sell & Trade page may be your answer. This service is offered to DMRAA members.

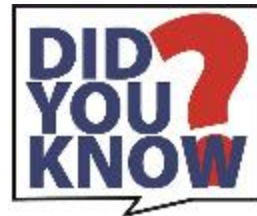
Contact
info@DMRAA.com

Looking for something?
We'd be happy to help
you by listing your want
items Here



Time to
Eat?

Buy / Sell



The DMRAA.COM website sees on average 150 unique visitors a week. There are 190 visits and they perform over 650 actions per week. These visitors spend approximately 4 minutes enjoying the information available for and about the DMRAA.

Check us out at
DMRAA.COM

Are you checking the website?

Timely news and notices are posted on the DMRAA website.
dmraa.com



Hungry and looking to meet local hams? On Fridays at the Buffet City 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 (around 20) usually arrives around 11:45 and breaks up at about 1:00. All are welcome, including family members.

Caution! Considerable amount of amateur radio topics will be discussed.



Strays



Digital Mobile Radio is really catching on in Iowa. There are over 40 DMR repeaters and the number is growing. We now have the ability to connect with the National Weather Service during severe weather on DMR. There are well over 500 registered DMR users in the State of Iowa and over 85,000 world-wide. Using a readily available \$75 radio you could talk to any of them. Maybe it is time for you to give it a try. With so many folks using DMR, why don't you ask one for a demo?



DMRAA Stainless Steel



We still have Limited Edition 30-ounce DMRAA Stainless Steel Travel Mugs available. These will make great gifts for anyone on your lists, and at \$20.00 each, will support the DMRAA as well. Contact Scott, NØOOD

ARES Reflective Vests

Polk County ARES now has several Class 3 Level 2 Safety Vests available for purchase. These are better quality surveyor type vests with sleeves and several pockets in sizes m thru 3XL. They have the words "RADIO COMMUNICATIONS" on the back.

Cost is \$20.

Contact Tom, NØVPR

n0vpr@arrl.net

Note: You need not be a Polk County ARES or DMRAA member to purchase a vest.



Static Sheet Deadlines

Item submission deadline	Publish Date (Email sent)	Web edition posted
February 1 st	February 15 th	February 20 th
April 1 st	April 15 th	April 20 th
June 1 st	June 15 th	June 20 th
August 1 st	August 15 th	August 20 th
October 1 st	October 15 th	October 20 th
December 1 st	December 15 th	December 20 th

WØAK Board Minutes DMRAA

June Board Meeting Minutes

There is not a report from the June DMRAA Board meeting as there was not a quorum.

The was no board meeting in July

*The Des Moines
Radio Amateurs
Association
board meets
monthly in the
upstairs
conference
room at the
East Euclid
Hy-Vee
2540 E Euclid
Ave
Des Moines*

WHATISIT #6?

WHATISIT #6?

By Larry KA0FTO.

What is the photo below? Ok it is a coil of wire right? So what is it for and why waste time winding it? Copper wire is a conductor right? It is not a perfect conductor and in fact depending on the size/gauge it has a little or a lot of resistance. When I put together the additional testing of Alkaline batteries I needed a low value of load or resistor. So 22 gauge wire has resistance of 1 ohm for 61.95 feet. For one of my test I needed .8 ohms for a load. Where do you find a .8 ohm resistor? WELL if 1 ohm is 61.95 feet then .8 ohm would be $.8 \times 61.95$ feet or 49.56 feet.



Top start wire to #1 wire is 49 feet and measures about .8 ohms. It is not easy measuring .8 ohms. Check your ohmmeter by short-

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WHATISIT #6? continued

ing the test leads together. When I did this I read .2 ohm so had to take that into consideration as a correction factor.

Measuring from the top start wire with the .2 ohm correction factor I measured the following.

Start to wire 1= .8 ohms	Wire 1-2= .3 ohms
Start to wire 2= 1.1 ohms	Wire 1-3= 1.1 ohms
Start to wire 3= 2.0 ohms	Wire 2-3= .9 ohms

Ok 10 each 10 ohm resistors wired in parallel would equal 1.0 ohm so I could have used that. I would have also needed to take the wattage rating of the resistors as well. Where is the fun in that?

Not a very great resistor as can you imagine this used in a circuit as it could be as big as the circuit. This would not be used for a large value of resistance, for example for 10 ohms or resistance you would need 619.5 feet of wire! JUNKBOX that is what you grab and make do with what you have. So why didn't I use a light bulb? The resistance of the filament in the bulb changes from cold to hot with voltage change comes resistance change!

I have a 1967 Honda Motorcycle that I made a resistor like this after having to replace the old Selenium Rectifier, related to the Alternator/Starter, with a Solid State Bridge. The Bridge was more efficient and put too much voltage into the lights and battery. You make do with what you have. I added a coil of wire under the seat and worked great until the next problem.

That is another story.

73

Larry, KAØFTO

Field Day 2018



Special Event Station



DMRAA IS PLANNING A SPECIAL EVENT STATION!

WHEN: November 03, 2018

WHERE: FORT DES MOINES MUSEUM & EDUCATION CENTER,
75 EAST ARMY POST ROAD

As a prelude to VETERANS DAY, 2018, the Museum is sponsoring an event called *Massing of Colors* (<http://moww.org>) at approximately 10:00 AM on the grounds of the Museum. To help bring attention to this ceremony, DMRAA will operate a Special Event Station from 7:00 AM to 6:00 PM at the Museum.

Watch for details in the November issue of QST, in the Special Events section. Come out and show your support for the Club, for our Veterans, and for the Fort Des Moines Museum!

More info: Bob Johnson, WØSMS (515) 249-6349
Dennis O'Brien, KAØDOS (515) 473-1013

Amateur Radio Technician Class

Offered by the Des Moines Radio Amateurs Association

This Class will prepare you to take the FCC Technician License Exam. The Saturday class will conclude with ARRL VE examiners administering the Technician Exam.



Reasons to get an Amateur Radio License

- I always wanted one.
- I want to help my community in times of need.
- I love to play with cool tech things.
- I want to increase the range of my RC aircraft.*
- It will drive my husband crazy
- I want to connect in a different way.
- No need to learn Morse code



What: Amateur Radio Technician Class
When: Saturday, October 27th, 2018 8:00 AM to about 7:00 PM
Where: 75 East Army Post Road, Des Moines, IA
Parking entrance is off Chaffee Road
Cost: \$ 100.00 This includes the text book, pre-course material, lunch with drink. HT Radio
Testing: Fee includes FCC Technician Class Test.

With **successful completion** of the examination each participant will receive a year's membership in the Des Moines Radio Amateurs Association.

The DMRAA philosophy concerning this Technician Class: **Yes you can!** We know that Ham Radio begins with a license and then the learning really starts. We encourage all interested person to consider this class. Enroll with a friend. There are no age restrictions as long as you are motivated.

To Pre-Register (a must)

Individuals wanting to take the class can contact me for payment and books at:

Mark Globuschutz, KØMJG

mglobuschutz@msn.com

2505 SW 36 St.

Ankeny, Iowa 50023

Home = (515) 289-4412 Cell = (515) 201-7669

Registrations with payment must be received by October 13th, 2018

Des Moines Radio Amateurs Association info@dmraa.com Or visit our webpage dmraa.com

DMRAA Field Day 2018 Statistics

QSO Breakdown by Band and Mode

W0AK				
Band	CW	SSB	RTTY	Total
3.5	28	0	0	361
7	262	3	0	443
14	194	62	0	644
21	106	8	0	79
28	0	17	0	1
50	0	0	0	0
Total	590	90	0	680

Comparison by Year					
Year/Category	PSK31	RTTY	CW	SSB	Total
2002 (3A)					920
2003 (3A)					760
2004 (4A)					1761
2005 (4A)					650
2006 (4A)					1156
2007 (4A)					1272
2008 (4A)	0	0	658	51	709
2009 (2A)	1	0	671	243	915
2010 (2A)	0	0	671	365	1036
2011 (2A)	0	0	1163	285	1448
2012 (2A)	0	0	896	466	1362
2013 (3A)	0	5	965	241	1206
2014 (4A)	0	0	1126	174	1300
2015 (4A)	0	0	1379	111	1490
2016 (3A)	0	0	1061	214	1275
2017 (3A)	0	0	1350	178	1528
2018 (3A)	0	0	590	90	680
2018 - 2017 % Change	N/C	N/C	-56%	-49%	-55%

W0AK QSO Breakdown by Date, Hour and Band

Date	Hour	Total	3_5	7	14	21	28
6/23/2017	18	39	0	0	38	1	0
6/23/2017	19	80	0	0	76	4	0
6/23/2017	20	45	0	26	19	0	0
6/23/2017	21	61	0	56	5	0	0
6/23/2017	22	25	0	23	2	0	0
6/23/2017	23	36	0	36	0	0	0
6/24/2017	0	34	0	24	10	0	0
6/24/2017	1	55	9	35	11	0	0
6/24/2017	2	64	12	26	24	2	0
6/24/2017	3	44	1	31	12	0	0
6/24/2017	4	23	6	8	9	0	0
6/24/2017	5	0	0	0	0	0	0
6/24/2017	6	0	0	0	0	0	0
6/24/2017	7	0	0	0	0	0	0
6/24/2017	8	0	0	0	0	0	0
6/24/2017	9	0	0	0	0	0	0
6/24/2017	10	0	0	0	0	0	0
6/24/2017	11	20	0	0	19	1	0
6/24/2017	12	21	0	0	3	16	2
6/24/2017	13	7	0	0	7	0	0
6/24/2017	14	6	0	0	4	0	2
6/24/2017	15	32	0	0	17	3	12
6/24/2017	16	87	0	0	0	86	1
6/24/2017	17	1	0	0	0	1	0
Total		680	28	265	256	114	17

Other Iowa stations worked: none.





Des Moines Radio Amateurs Assn.
P.O. Box 88
Des Moines, IA 50301
DMRAA.org or DMRAA.com

E-mail: info@dmraa.com

Can you hear me now?

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.



DMRAA Membership Application

Des Moines Radio Amateurs Association

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
\$60 3 Years

NOTE: Dues are for calendar year.

Mail Application and payment to
DMRAA
P.O. Box 88
Des Moines, IA 50301

