

# STATIC SHEET

## OFFICERS

- Bruce Brumm KCØZMT  
President
- Brad Boeckmann KC9DMQ  
Vice-President
- Alisa Payton KNØWME  
Secretary
- Bill Claypool NUØQ  
Treasurer

## BOARD

- Mark Globushutz KØMJG
- Ray Harden WØRAY
- Scott Kirstein NØOOD
- Ron Overholser KDØTTO
- Kevin Sanders KØKDS
- Mike Waldron AEØMW

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AUGUST 2017

## 2017 DMRAA Field Day

The 2017 Field Day is now in the books. The weather was fantastic, the bands cooperated and the equipment worked great. Thanks to all who made the 2017 DMRAA Field Day a great 24 hours. New this year was operating from the two ARES trailers. While the weather was not extreme the air conditioned trailers made the experience very pleasant. Looks like CW was very hot and provided a huge



number of the contacts. Be sure and check out the 2017 statistics on page 14. The location for next year's Field Day has not been decided yet. Feel free to make your recommendations to any board member. Whatever location is chosen, please support the club!



1-Day Technician  
Class  
Page 11



**Come enjoy the fellowship**

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



# Upcoming Meetings

## August 22nd Meeting

Jon Davis, KCØUSS Deputy Emergency Manager for Polk County will present a discussion on Emergency Preparedness

Please join us.  
7:00 PM  
Recital Hall, 3rd floor  
Plymouth Congregational Church  
42nd & Ingersoll Des Moines, IA

## September 26th Meeting TBD 7:00 PM

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

**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

Brad & Scott are looking for meeting ideas and presenters. Please feel free to make suggestions and offer to help with a presentation.

Brad Boeckmann KC9DMQ  
[brad.boeckmann@gmail.com](mailto:brad.boeckmann@gmail.com)

Scott Kirstein, NØOOD  
[n0ood@arrl.net](mailto:n0ood@arrl.net)



## 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

### July Meeting

The July was more of a laid back meeting, with programming offered for several different radios, including many of the new DMR radios. There was also a good supply of Ice Cream treats. The evening saw a couple on new hams visit their first DMRAA meeting. We're sure we'll see them again.



If you have any suggestions for future meetings, please contact Vice-President  
Brad Boeckmann  
KC9DMQ at [info@dmraa.com](mailto:info@dmraa.com)



### Giving back through community service

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



# Polk County ARES



This time of year is a busy time to be sure. Scott, NØOOD is certainly in the thick of it. His work commitment is of course the Iowa State Fair. Couple that with his daughter's wedding and other work obligations it is easy to understand why he isn't writing this column today.

We all have commitments and quite often they will and should take priority over our volunteer duties. This type of scenario underscores the need to have others who can step in and fill the need.

Most Amateur Radio Operators tend to believe that when a serious emergency arises they will be ready to help. What constitutes ready? It isn't showing up at a disaster site uninvited! It starts much earlier than that. Being an active part of Polk County Amateur Radio Emergency Service is a good start. By participating in exercises you become known, not only to your fellow hams but more importantly to the served agencies. This is important when during a disaster as the leaders know what they can

expect from Amateur Radio and our members. What a great compliment to be told that our response was "seamless". As we as an organization strive to help our communities during times of need. We must also balance our needs. Having many hands on deck during a crisis allows

us to share the load and satisfy our obligations to family and our community.

Just as I stepped in to help out by writing this column, you can step up and help the group. Signing up early to help with an event, offering to mentor a new ham in their first try at ARES or even offering to lead an event.

Please consider stepping up to the challenge.

Tom, NØVPR  
Assistant Emergency Coordinator,  
Polk County Amateur Radio  
Emergency Service

## DMRAA Stainless Steel Travel Mug



Don't forget to bring a spare battery and use an extended gain antenna when participating in ARES events

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.

### Polk County ARES Meetings

Polk County EOC at  
1907 Carpenter Avenue  
Des Moines, IA



## ARES MEETINGS DATES 2017

7:00 PM

Monday, October 9th, 2017

Polk County Emergency  
Operations Center  
1907 Carpenter  
Des Moines, IA

## 2017 ARES Events

Operation "Stable Mercury" September 7th & 8th  
Head of the Des Moines Rowing Regatta, September 30<sup>th</sup>, 2017  
Des Moines Marathon, October 15<sup>th</sup>, 2017  
Living History Farms Fun Race  
November 18th, 2017

Sign-up online at [DMRAA.com/ARES](http://DMRAA.com/ARES)



# 2016 DMRAA Calendar



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

## Calendar 2017

### General Meetings and Events

22 August, 2017  
26 September, 2017  
24 October, 2017  
21 November, 2017 Chili  
Feed / Auction  
12 December, 2017 DMRAA  
Christmas Party  
23 January, 2018  
27 February, 2018  
27 March, 2018  
24 April, 2018  
22 May, 2018  
26 June, 2018

### Board Meeting Dates

5 September, 2017  
3 October, 2017  
7 November, 2017  
2 January, 2018  
6 February, 2018  
6 March, 2018  
3 April, 2018  
1 May, 2018  
5 June, 2018  
3 July, 2018  
7 August, 2018  
4 September, 2018  
2 October, 2018



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

### Inflection Point

It appears to me that Amateur Radio is at an inflection point. Digital modes, while still in the minority, are beginning to take over as common or preferred methods for communications. This is certainly becoming prevalent on VHF/UHF. D-Star, Fusion, P25, and DMR are some of the most commonly implemented standards. There are of course both advantages and disadvantages to this change. Without delving into the various technical minutiae, one disadvantage I observe is that radio amateurs are at risk of becoming appliance operators.

Given increased complexities in protocols and modulations, balanced against ease of implementation and decreased

equipment costs, many operators are becoming channel jockeys. It is also together too easy to buy a sub-200 dollar radio, have someone push a configuration to it, and select between "channels". I've recently met several hams who admittedly professed to know nothing other than how to key down PTT on channel 1 or channel 2.

If you agree, get on "3119" and give us all a big "10-4".

Levity aside, is there really a difference between this and analog FM repeater use? From a certain perspective, not so much. There is certainly an increasing number of licensed hams, equipped with inexpensive Chinese radios, who don't know much except how to key down on the PTT button, much

less program in a frequency or set a PL tone.

What is clear, is that it is incumbent on all of us to know and understand the theory, protocols, tools and equipment we use. This hobby is one that affords the opportunity of a lifetime of learning. Let's keep moving with technology and expanding our knowledge, but at the same time, striving to better understand the environments in which we operate.

73, Bruce KC0ZMT



"I am in a position to speak my mind. And that is what I propose to do."

Walter Cronkite  
KB2GSD SK



Don't forget  
to pay your  
2017  
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	146.820 203.5 PL	6:30 pm	State Wide ICN Net (Mason City, Pella, Des Moines, Bedford)
Monday	146.940- t 114.8	7:00 pm	DMRAA information Net
Wednesday	53.250-	8:30 pm	Iowa 6 Meter Net 1.7mhz-
Wednesday	146.610- t 114.8	11:00 pm	Night Owl Net
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

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 17, 2017  
November 19, 2017

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

Location ISU Campus –  
Building and Room TBA

Contact: George Oster,  
NP2N  
515-233-3535

### Boone 9:00am

August 12, 2017  
October 14, 2017  
December 9, 2017

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 2nd

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](mailto:info@dmraa.com)

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

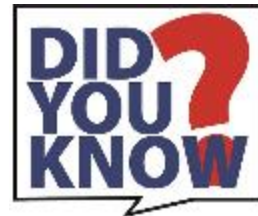


Time to Eat?

## Buy / Sell

You could be selling your excess gear on this page.

[info@dmraa.com](mailto:info@dmraa.com)



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](http://DMRAA.COM)

## Are you checking the website?

Timely news and notices are posted on the DMRAA website.

[dmraa.com](http://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



## DMRAA to offer Technician Class, September 23rd

More details available  
at [dmraa.com](http://dmraa.com)

or contact

Mark KØMJG at  
[mglobuschutz@msn.com](mailto:mglobuschutz@msn.com) or

Home = (515) 289-4412

Cell = (515) 201-7669

## ARRL Entry Level License Committee wants Suggestions

The ARRL has developed an Entry Level License Committee charged with suggesting changes to the current license system. These changes could give beginners experience with more bands and modes in an effort to encourage on-air activity, retention, and upgrades. The committee is also looking for ways to increase youth licensing. Please give your input to the committee by completing the survey at the link below.

Link:

<http://www.arrl.org/license-1>

## 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](mailto: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 <sup>st</sup>	February 15 <sup>th</sup>	February 20 <sup>th</sup>
April 1 <sup>st</sup>	April 15 <sup>th</sup>	April 20 <sup>th</sup>
June 1 <sup>st</sup>	June 15 <sup>th</sup>	June 20 <sup>th</sup>
August 1 <sup>st</sup>	August 15 <sup>th</sup>	August 20 <sup>th</sup>
October 1 <sup>st</sup>	October 15 <sup>th</sup>	October 20 <sup>th</sup>
December 1 <sup>st</sup>	December 15 <sup>th</sup>	December 20 <sup>th</sup>

# WØAK Board Minutes DMRAA

## June Board Meeting Minutes

DMRAA Board Meeting Minutes

Tuesday June 6, 2017

The meeting was called to order at 7:15pm

In Attendance:

Bruce Brumm – KCØZMT – President Bill Claypool – NUØQ - Treasurer

Brad Boeckmann – KC9DMQ – VP Lisa Payton – KNØWME -- Secretary

Mark Globuschutz- KØMJG – Board Ray Harden – WØRAY – Board

Ron Overholser – KDØTTO – Board Kevin Sanders – KØKDS – Board

Michael Waldron – AEØMW – Board Scott Kirstein – N0OOD – Board

Dean Madsen – NØXR – Special Guest

1. Review May minutes: Motion to approve, by Kevin, 2nd by Mike. Motion Carried

2. Treasurer's report \$ 24,066.92

Still no final \$\$ from hamfest.

3. Unfinished business

None

4. Field Day

June 24 and 25 at Yellowbanks Park Shelter #1

Bruce has Registration form; more details same as in May minutes.

Pickup equipment at Dean's Thursday evening 6/22, 1900hrs

Discussion regarding Ops – 3A (four stations).

Kevin and Ray will handle antenna trailers.

Discussion regarding evening food. No decision at this time.

Discussion regarding lunch for the setup crew. Club will provide Subway.

*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*



## 5. Subcommittee reports

## a. Polk Co ARES.

Market to Market event donation of \$500 for ARES support by event sponsor

## b. Programming

June - DX Engineering Tim K3LR

July – TBD

August –TBD

September - Emergency Preparedness

October –

November – Chili Feed / Auction

December – Christmas Party

2

## c. Education

September 23 – Tech Class, possibly 1-day class, possibly to provide radio, charge #95 to \$100

Stress mandatory pre-course review.

## d. Repeaters &amp; Packet

D-Star is back in its original station and antenna configuration. G-2 Trust network is now enabled.

## 6. Membership

Annual election was held, voice vote, all candidates were elected.

## 7. New Business

None

Motion to adjourn by Ray, 2nd by Kevin. Motion carried, Adjourned at 2005hrs.



# WØAK Board Minutes DMRAA

## August Board Meeting Minutes

Called to order: 7:04

In attendance:

Bruce Brumm – KC0ZMT – President Bill Claypool – NU0Q – Treasurer

Brad Boeckmann - KC9DMQ – VP Lisa Payton KN0WME – Secretary

Ray Harden – W0RAY – Board

Globuschutz- K0MJG – Board

Ron Overholser – KD0TTO – Board Kevin Sanders – K0KDS – Board

Michael Waldron – AE0MW – Board Scott Kirstein – N0OOD – Board

Dean Madsen – N0XR – Special Guest Bob Johnson – W0SMS – Guest

Guy Payton – KE0CHJ – Guest

1. Review of minutes from June board meeting

a. Mark made motion to approve with corrections, 2 nd by Ron – Motion carried

b. Treasurer’s report -- \$ 23,894.33

There are a few expenses from field day, the July meeting, and outfitting the ARES trailer to be paid out yet.

2. Unfinished/New business – none

3. Polk County ARES update

a. 2017 events and meeting schedule

Iowa State Fair parade – Aug 9

National Guard Exercise – Sept 7 & 8

Rowing Regatta – Sept 30

Des Moines Marathon – October 14

Living History Farms – November 18

There is a possible NDMS exercise, at this point ARES has been asked to stand down

4. Subcommittee reports

a. Hamfest – 15-April- 2017

*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*

Revenue: Tables \$1080, 320 tickets – \$2240 and an extra dollar donated  
\$3321 in total revenue  
Expenses: Rent \$1404.50, Prize \$327.54 Total 1731.04  
Net Revenue \$1589.96

Des Moines Radio Amateurs Association  
PO Box 88  
Des Moines, Iowa 50301  
<http://www.dmraa.com>  
[info@dmraa.com](mailto:info@dmraa.com)

b. Field Day – 24/25 -June- 2017

The site at Yellow banks seemed to work well. Working from the trailers worked well, except for the generator exhaust and mosquitos.

The generator at the small trailer quit intermittently, to be checked into for maintenance

Attendance was down a little from previous years.

Stats were submitted on time. 3A. claimed score of 5756.

Most of the equipment has been returned to its assigned place, and arrangements were made for the few items that have yet to be returned.

Per ARRL -- “Always the fourth full weekend in June”

There was some discussion about using the same location next year or returning to Ft Des Moines. No decision was made.

c. Repeaters & Packet

Packet is still down. Will likely be fall before it gets back up.

Dstar computer has been acquired, and Mike is working to get it operational.

Tom Reis notified us that the 146.940 antenna needs to be replaced. After some discussion, including age of the antenna and recent reports of poor repeater performance, Ron made a motion to approve paying the 734.27 plus tax requested for replacement antenna to be installed by Tom and Dale Day. 2 nd by Mark. Motion carried.

d. Education

Mark and Bob brought up the possibility of some way to take credit card payments or paypal payments for future class attendees. Discussion on what other benefits such ability would bring. A motion was made by Scott to get a paypal card reader and proceed with setting this up in time for the Chili feed and Auction in November. Motion was seconded by Ray. Motion carried. Mike will take care of ordering the reader, Bruce and Bill will take care of the banking aspect.

e. Programming

August: Emergency preparedness

September: TBD

October: TBD

November 21: Chili Feed and Auction (Tom has church reserved)

Ron will coordinate the chili

Bruce will check with the auctioneer

December 12: Christmas party

Dennis will confirm with the church

f. Communications & Public Relations no report

g. Membership no report

h. Awards no report

i. New business :

The website has been backed up regularly, password has been changed recently. Mike will contact Tom / Kevin to get new password so complete backup can be made.

Brad: JOTA will need radios October 21

Motion to adjourn at 8:17pm by Scott, 2 nd by Ray. Motion carried





# 1-Day Technician Class

## 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 Experiment
- 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, September 23, 2017 8:00 AM to about 7:00 PM

**Where:** Edgewater Retirement Community, 9225 Cascade Ave. West Des Moines, IA "Wellness Room" - this is a ground level room just west of the main entrance on the South side of the facility.

**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](mailto: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 September 2nd, 2017

# DMRAA Field Day 2017 Statistics

## QSO Breakdown by Band and Mode

W0AK				
Band	CW	SSB	RTTY	Total
3.5	361	0	0	361
7	406	37	0	443
14	533	111	0	644
21	50	29	0	79
28	0	1	0	1
50	0	0	0	0
Total	1350	178	0	1528

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
2017 – 2016 % Change	N/C	N/C	27%	-16%	20%

## W0AK QSO Breakdown by Date, Hour and Band

Date	Hour	Total	3_5	7	14	21	28
6/24/2017	18	46	0	0	46	0	0
6/24/2017	19	47	0	0	46	1	0
6/24/2017	20	61	0	0	61	0	0
6/24/2017	21	62	0	13	32	17	0
6/24/2017	22	74	0	61	13	0	0
6/24/2017	23	63	0	53	8	2	0
6/25/2017	0	70	0	63	0	7	0
6/25/2017	1	84	0	73	0	10	1
6/25/2017	2	71	58	0	4	9	0
6/25/2017	3	88	80	0	8	0	0
6/25/2017	4	69	66	1	2	0	0
6/25/2017	5	77	42	35	0	0	0
6/25/2017	6	44	0	42	2	0	0
6/25/2017	7	81	80	1	0	0	0
6/25/2017	8	42	3	34	5	0	0
6/25/2017	9	46	32	12	2	0	0
6/25/2017	10	13	0	4	9	0	0
6/25/2017	11	42	0	18	24	0	0
6/25/2017	12	44	0	4	40	0	0
6/25/2017	13	64	0	2	62	0	0
6/25/2017	14	107	0	10	97	0	0
6/25/2017	15	69	0	5	64	0	0
6/25/2017	16	89	0	10	79	0	0
Total		1528	361	443	644	79	1

Other Iowa stations worked: W0FLS, AD4OS, AD0H, WF0RT, N0DJY



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

E-mail: [info@dmraa.com](mailto: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

