

# 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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FEBRUARY 2017

## Kirk Nelson Receives 2016 Winthrop Mager Award

Kirk Nelson, WL7CLI was awarded the Des Moines Radio Amateurs Association's highest award at the recent DMRAA Christmas Party. Kirk was recognized for his service to the club and service to the many ARES events he assists with, notable are the many hours setting up and managing the APRS trackers used for the IMT Des Moines Marathon. Kirk has also served the club as secretary to the DMRAA board. Well done Kirk.



## Annual Skywarn Training February 28th

Please join the DMRAA for our annual Skywarn Training.. Amateur Radio has a long history of helping the mission of the National Weather Service with local and timely severe weather reports. Roger Vachalek, Senior Meteorologist with the Des Moines Weather Forecast office deliver the 2017 version of the NWS Spotter Training. The training will be start at 7:00pm in the Recital Hall on the 3rd floor. Plymouth Congregational Church, 42nd and Ingersoll, Des Moines. After the training you may apply to become a Registered Spotter for the Des Moines NWS. Feel free to bring family and friends, all are welcomed. There is no charge.



DMRAA  
Christmas Party  
Photos  
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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

## February 28th Meeting

### Annual Skywarn Spotter Training

Please join us.

7:00 PM

Recital Hall, 3rd floor

Plymouth Congregational Church  
42nd & Ingersoll Des Moines, IA



## 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, N0OOD  
[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.

## DMR-MARC Linked Repeaters

March 28th, 2017

7:00 PM

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

**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.**

## Past Meetings

Normally this area would contain a brief description of the previous meeting. Unfortunately the editor was out of town with a family issue. We welcome spontaneous pictures and comments. Please send those to [info@dmraa.com](mailto:info@dmraa.com)  
We're all ears!



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



Happy 2017!

It's official – if not surprising – that we are now into a new year. This transition happens every year around this time, and brings with it new opportunities to learn from our previous experiences, and opportunities to try new things.

Fortunately, there are some things unique to this hobby that you can feel free to try out this year. Elsewhere on this page, you will find a listing of the events we are planning on helping out with during this new year. The events themselves aren't new – in fact looking at the calendar we are "busy" enough that I would be hesitant to add any additional events.

The opportunities we each have is to try a new (to you) event, perhaps be a mentor for a newly licensed ham who hasn't had the opportunity to work any events, or maybe help out with the organizing and leadership for an event.

If you are new to the hobby,

"Welcome." I would suggest that you take a look at the events list, and find one event (or more) that fits into your schedule, and get signed up to help. ARES events are the best way to get involved with your new hobby, and meet others who share your interest (I may be showing a little bias here . . .) With all of these reasons above, I'm sure you are very anxious to get signed up to help out! Fear not. Just go the DMRAA website ([www.dmrta.com](http://www.dmrta.com)), and click

on the ARES tab. You can sign up online – easy, right?

Again, thanks for all you do to support Polk County ARES. Scott, NØOOD

## DMRAA Stainless Steel Travel Mug



Hot off the presses is this Limited Edition 30-ounce DMRAA Stainless Steel Travel Mug. These will make great gifts for anyone on your lists, and at \$20.00 each, will support the DMRAA as well.

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



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



## ARES MEETINGS DATES 2017

7:00 PM

Monday, April 10th, 2017  
Monday, July 17th, 2017  
Monday, August 9th, 2017

Polk County Emergency  
Operations Center  
1907 Carpenter  
Des Moines, IA

## 2017 ARES Events

Fight for Air Climb, Sunday April 9th, 2017  
Drake 1/2 Marathon, April 29th, 2017  
Market to Market, Saturday May 13th, 2017  
Dam to Dam Half Marathon,  
Saturday June 3rd, 2017  
ARRL Field Day, June 24<sup>th</sup> -25<sup>th</sup>, 2017  
Iowa State Fair Parade, August 9<sup>th</sup>, 2017  
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

## Calendar 2017

### General Meetings and Events

28 February, 2017  
 28 March, 2017  
 22 April, 2017  
 DMRAA Hamfest  
 25 April, 2017  
 23 May, 2017  
 June 24/25 2017 Field Day  
 27 June, 2017  
 25 July, 2017  
 22 August, 2017  
 26 September, 2017  
 24 October, 2017  
 28 November, 2017

### Board Meeting Dates

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



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

Another year is under our belts. It was a year like many others. We dutifully attended the club monthly meetings on the 4th Tuesday of each month. We had dinner with the same guys before each meeting. We attended the Hamfest, Field Day, and Skywarn Appreciation Day.

We tuned into some nets and checked in "for the count". We helped out with ARES events.

We checked exams at VE testing. We kerchunked repeaters to see if they still worked. We talked to our friends on the way into work, and again on the way home. What will you do differently in 2017? Amateur Radio affords many different aspects and opportunities. Try something new that moves you out of your routine. Dare to be different!

The last couple of years, the ARRL has sponsored some year-long operating events. Many of you participated in the ARRL Centenni-

al and last year's National Parks on the Air. I don't know of any large scale events planned for this year. Perhaps this is an opportunity to try a new mode or aspect of the hobby.

Are you a die-hard 2m fan? If appropriately licensed, get on HF! In addition to the typical voice modes, many digital modes are available and can be interfaced to your computer via the sound card. If you are so-inclined and up for a challenge, try receiving weather satellite images. There are many things which can be done without extensive and expensive antenna farms.

It is important that we stay up to date and familiar with the radio equipment we use. While the weather is lousy and you're trapped indoors with cabin fever, do some spring cleaning! Reorganize that go-box or bag, charge all your batteries and update any firmware on your radios. Make sure you have the most current frequencies programmed into your rigs. The DMRAA maintains a list at the URL below. Thanks to Tom Reis,

NØVPR for keeping it current.  
<http://dmraa.com/wp-content/uploads/2017/01/DMRAA-Freq-Guide-January-2017.pdf>

Another important thing to do is periodic signal checks for your radios. Make sure your antennas and radios are properly matched and can correctly communicate. Spring will soon be here, so make good use of the down time. There will soon be plenty of opportunities to participate in ARES events and exercises like Field Day. Stay busy!

Bruce Brumm  
 KCØZMT



Bruce Brumm  
 KCØZMT

Treat your password like your tooth-brush. Don't let anybody else use it, and get a new one every six months.



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

March 19, 2017  
May 21, 2017  
July 16, 2017  
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

March 8, 2017, 7:00 PM  
April 15, 2017, 10:00 AM

Location ISU Campus –  
Building and Room TBA

Contact: George Oster,  
NP2N  
515-233-3535

### Boone 9:00am

April 8, 2017  
June 10, 2017  
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

March 4th  
May 6th  
August 5th  
December 2nd

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

Contact:  
Brian Krumm, NØMXX  
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



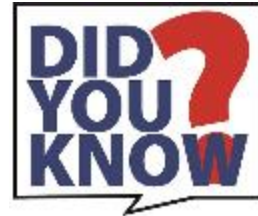
Time to Eat?

## Buy / Sell

### Ham Shack for Sale

Icom IC-746 HF radio  
MFJ-9994B Automatic Tuner  
Amplifier 600-800 watts (made by Jim Gates)  
Astron RS-35 power supply  
Radio Shack HTX-202 2meter HT  
5 amp Power Supply, 6 Amp Power Supply  
Dosy SWR Meter and Power Meter  
Kenwood TM-241 2 Meter Mobile  
Astron SS-25 Astron Power Supply  
Electronic Keyer  
Marathon ARB 704 Amplifier to Transceiver interface  
MFJ SWR analyzer  
MFJ J2-297 Des Mike  
Field Strength and SWR Meter  
Other items too numerous to list  
Shack Desk, set-up and ready to use!

These items are FOR SALE as a package only.  
Serious inquires only please.  
Contact Ernie, KØEJJ at (641) 792-7859



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, May 5th & 6th

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

## November Board Meeting Minutes

### DMRAA Board Meeting Minutes

Tuesday November 1, 2016

*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*

The meeting was called to order at 7:02pm

In Attendance:

Bruce Brumm – KCØZMT – President

Mark Globuschutz- KØMJG – Board

Ron Overholser – KDØTTO – Board

Michael Waldron – AEØMW – Board

Bill Claypool – NUØQ – Treasurer

Ray Harden – WØRAY – Board

Kevin Sanders – KØKDS – Board

Scott Kirstein – NØOOD – Board

1. Review of minutes from October board meeting
    - a. Ron Overholser motion to approve, 2<sup>nd</sup> by Ray Harden – carried.
    - b. Treasurer's report -- \$21,436.66
    - c. 19 RTIC mugs sold, \$380.00
    - d. Polk County ARES update
    - e. Coax, u-clamps for Polk County EOC antenna, \$56.00 reimbursed to Tom, NØVPR
    - f. Tom donated dual band antenna and ground plane.
    - g. Motion Scott, NØOOD; 2<sup>nd</sup>, Ron KDØTTO – carried.
    - h. Subcommittee reports
- Education

General Class -- \$360.00 income, \$368.45exp

Sell extra books at club auction.

Tech class for TSA @facility on Fleur; 18 (6-9pm) -19 (8-5pm) Nov, testing 19-Nov 4 or 5pm.

New tech class perhaps is March 2017

Extra class study group discussed.

Hamfest

Possible venue change in Ankeny being explored; ISF not available 15-April.

Fallback date is 22-April at ISF if Ankeny venue is not feasible.

Field Day – 24-25-June 2017

No report; Yellow Banks still site for 2017, Thomas Mitchell Park discussed.

Awards

Winthrop Mager, Ron KDØTTO to chair. KCØZMT to present in KDØTTO's absence. Tom Reis, NØVPR to arrange for engraving/plaque.

No new business.

Motion to adjourn at 8:00pm by Ray, WØRAY, 2<sup>nd</sup> Scott NØOOD – carried.



# WØAK Board Minutes DMRAA

## January Board Meeting Minutes

### DMRAA Board Meeting Minutes

Tuesday January 3, 2017

Called to order: 7:02pm

In attendance:

Bruce Brumm – KCØZMT – President

Lisa Payton KNØWME – Secretary

Ray Harden – WØRAY – Board

Brad Boeckmann - KC9DMQ – VP

Mark Globuschutz- KØMJG – Board

Michael Waldron – AEØMW – Board

Scott Kirstein – NØOOD – Board

Review of minutes from November board meeting

Ray made motion to approve, 2<sup>nd</sup> by Mark

b. Treasurer's report -- \$21,656.91

Check was mailed to the Iowa State Fair with the contract for Hamfest which will be held April 22.

All Christmas fees have been paid

2 Dozen mugs have been sold

Unfinished/New business – none

3. Polk County ARES update

2017 events and meeting schedule

The next meeting is January 9

All 2017 dates are on the DMRAA website

4. Subcommittee reports

Hamfest – 22-April-2017

The ARRL has been contacted and the contract with the ISF has been completed. The entrance fee will be \$7.00 this year, and testing will be offered at the venue.

*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*

Field Day – 24-June-2017 – Reservations will be made at Yellow Banks again for this year.  
Per ARRL -- “Always the fourth full weekend in June”

#### Repeaters & Packet

Fusion machine is running, but is not in place.

#### Education

There is a technician class scheduled for February 10 & 11 at Edgewater Retirement Community. 3 hours on Friday evening, the remainder on Saturday. Registration cut off is January 31.

All of the extra books and Baofeng radios were sold at the chili feed/auction.

#### Programming

January – History of the DMRAA – Bob Jimmerson KD0ØMM

February 28 – Weather Service Training

March 28

April 25

May 23 Elections

#### c. Communications & Public Relations

#### d. Membership

Bill and Bruce are still working on the membership roster

#### e. Awards – no discussion

#### f. New business

Mike reported that Hobby Haven on 86<sup>th</sup> and Hickman is considering carrying Ham Radio stuff. They are asking for materials, fliers etc. to post in their store. No permission is needed, and it would be a good idea to get them the fliers for upcoming technician classes.

Motion to adjourn at 7:49pm by Mark, 2<sup>nd</sup> by Ray. Motion carried



# KAØFTO Toys!

Quad Copter  
OR  
Quad Copters?

By Larry KAØFTO

OK so how many do you see in the included photos?

I seemed to be hooked on another hobby! The latest small red one in the middle of the second photo is a Proto-N Nano Series. It is labeled as **WORLD'S SMALLEST DRONE!**

You actually store it in a window on the Remote Control. It is less than 2" across and on the box it says 22mm X 22mm X 19mm tall.

The two photos I have included shows it on a \$20. bill by a dime and on top of my DJI Phantom 3 in the second photo. There is no camera and normally is flown inside only. The controls are extremely quick for this old Geezer and must continually correct it just to hover. Flight time is less than 5 minutes and has bright LED's so easy to find when you lose it under furniture. I am sure young folks that play video games would have no trouble with their reflexes. My first 3 flights averaged about 15 seconds each. The price is \$35.00. It comes with a spare set of Props as well. One down side is the unit is so small the battery is not replaceable. You charge it via a USB port on your PC or one of the USB units you might have for your cell phone or tablet. Recharge time is less than 30 minutes.

It is a riot to fly and you do not dare take your eyes away from it. The WebPages on the internet have folks flying them and they make it look very easy. Obviously you do not have to register it with the FAA because it is far less than .55lbs. See attached photos and the second photo, of course, is the one with 2 Quad Copters.

I have actually put my large one to bed so to speak until we have warmer weather. The battery life is much shorter in cold weather so my 20-25 minutes could actually be 10-12.5 minutes. I am very cautious.

73 Larry KAØFTO.



# 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 Friday evening and 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:** Friday May 5th, 2015 6:00 PM to 9:00 PM

Saturday, May 6th, 8:00 AM to 6:00 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:** Cost of the class = \$ 45.00 This includes the text book, pre-course material, lunch with drink. (no radio is provided with this class)  
Testing cost = Testing will be \$ 15.00 and will need to be paid at the time of the test following the class on Saturday. It is expected that the testing will start about 4:30 or 5:00

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 January 27th, 2016

Des Moines Radio Amateurs Association [info@dmraa.com](mailto:info@dmraa.com) Or visit our webpage [dmraa.com](http://dmraa.com)



# 2016 DMRAA Christmas Party





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

