

## OFFICERS

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## How The Salvation Army spells "relief"

Editors note: We are indeed fortunate to have the services of the Salvation Army during local "disasters". It seems appropriate to highlight their commitment to our members.

When disaster strikes The Salvation Army is usually among the first on the scene providing hydration, food, shelter, clothing and spiritual comfort. The Salvation Army's recognizable mobile canteens are familiar sites to fire fighters, police officers and victims alike.

Founded as a Christian mission to meet the physical and spiritual needs of the impoverished, The Salvation Army first became involved in disaster relief after the devastating Galveston Hurricane in 1900 and again after the San Francisco earthquake of 1906.

Supported by federal law, the Army's role as a disaster relief organization is not that of a first responder but rather as a supporter of first responders. A mass-care support agency, The Salvation Army provides material, physical, emotional and spiritual comfort all supported solely by donations.

When The Salvation Army initiates a disaster relief operation, the first aim is to meet the basic needs of those who have been affected, both survivors and first responders.

Here in Iowa, emergency disaster services are provided by 19 Corps (combination community centers and churches) located throughout the state that are

third of the town of nearly 2,000. Homes and businesses were also damaged in New Hartford, Dunkerton and Hazelton. A total of eight lives were lost, and 50 were injured in this storm.

Omaha-based Western Division disaster services director, John Kuzma, was in Parkersburg just hours later to spearhead The Salvation Army's response. Mo-



bile canteens from the Western Division's Fort Dodge and Mason City Corps rushed to assist. Canteens from the Heartland Division's Waterloo and Cedar Rapids Corps were dispatched to nearby Hartford and Hazelton. The Heartland Division is based in Peoria.

aided, when necessary, by Corps from adjacent and other states.

### Put to the test in Iowa

As Memorial Day weekend 2008 was in full swing, a tornado hit Parkersburg in northeast Iowa, starting what many are calling one of Iowa's worst seasons for natural disasters. Salvation Army Corps throughout the state jumped into action and responded to meet the needs of victims and disaster relief workers.

The EF5 tornado that hit Parkersburg wiped out the southern

Two days after the tornado struck, Major Keith Petrie, Des Moines' city coordinator at the time, relieved Kuzma as incident commander for The Salvation Army and as the organization's liaison with other relief organizations working in the community.

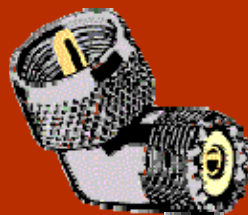
The Salvation Army maintained a presence in Parkersburg for nearly two weeks serving more than 15,000 people a total of 10,226 meals, 13,793 snacks and 20,598 beverages. In addition,

Continued page 7



Come enjoy the fellowship

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



# Upcoming Meetings

Plymouth Congregational Church  
Waveland Room, 7:00PM  
42 & Ingersoll Avenue  
Des Moines

September 22nd 7:00 PM

September meeting to highlight H1N1 flu preparations.

Brenda McGraw KD0EDJ and A.J. Mumm Polk County Emergency manager will address the H1N1 flu threat. The presentation will include an update, protection, and preparedness as well as the mission of Polk County Emergency Management and their role during a health emergency. This will be a very timely discussion given the upcoming flu season. Bring a friend.

October 27th 7:00 PM  
Check [DMRAA.com](http://DMRAA.com)  
for information on upcoming meetings

## Future Meetings

George, KK7FM is constantly looking for meeting ideas and presenters. Please feel free to make suggestions and offer to help with a presentation.



# Recent Meeting

The August meeting included a D-Star update and was presented by Larry Vandewater, NØBKB, Mike Waldron AEØMW and Tom Reis NØVPR. The presenters described the current status with the D-Star infrastructure in the Des Moines area and the various options available. Also presented was the recent work on the 320 foot tower.

The meeting also encouraged members to bring their "Go Boxes. Bob Jimmerson KAØOMM won a small Steamlight flashlight to keep in his kit.



Larry, NØBKB shows a sample of the hardware used on the D-Star system

# Polk County ARES



Giving back through community service

## The Purpose of ARES

The purpose of the Amateur Radio Emergency Services is to train and be prepared to provide communications support during emergencies and disasters. We need to be ready to provide communications support and pass Formal Written Traffic when the need arises. We use Public Service Events and Drills to keep our skills sharp and to make sure our equipment works. We have set guidelines that need to be followed in order to keep us focused on our purpose. When we violate our own guidelines we lose credibility with the Served Agencies and the Public.

This is not a game we play just to have fun and play on the radio. We are practicing for when the real emergency happens. If we don't take our duties seriously, we will not be ready. If we are not ready and can't handle the traffic entrusted to us lives and property are in

danger of being lost. Times have changed and we must change with them. Since 9-11 and Hurricane Katrina the world is a different place. If we want to work with the Emergency Agencies during a disaster, we now need to have the training that they require. We need to know their language and how they function. Gone are the days when all you needed was a radio. Those days will never return. We must work with a different set of rules and take training required by the agencies we serve.

I'm sure you have all heard this before but I think we all need a little reminder every now and then. We seem to get complacent and forget

what our real purpose is.

Dan Miller ACØOF  
Iowa ARES Section Emergency Coordinator



## UPCOMING

### ARES EVENTS

#### 2009 Polk County ARES Meeting Schedule

October 13

## ARES EVENTS

- Asthma Walk TBA
- Head of Des Moines Rowing Regatta September 26
- Des Moines Marathon October 18
- Living History Farms Cross Country Race November 21

Polk County ARES Meetings  
Johnstone Supply Classroom  
(2nd floor)

11000 Justin Drive  
Urbandale, IA 50322

# 2008 —2009 DMRAA Calendar

## DMRAA Calendar 2009

### September Program

Preparations for the H1N1 flu outbreak. Presented by Brenda McGraw KDEDJ Mercy Hospital Emergency Coordinator and A.J. Mumm Polk County Emergency Manager

### General Meetings and Events

22 September, 2009  
 17 October Jamboree on the Air  
 22 October, 2009  
 24 November, 2009  
 Chili Feed / Auction  
 1 December 2009 DMRAA Christmas Party  
 26 January, 2010  
 23 February, 2010  
 23 March, 2010  
 24 April, 2010 Hamfest  
 25 May, 2010  
 22 June, 2010

### Board Meeting Dates

7 July, 2009  
 4 August, 2009  
 1 September, 2009  
 6 October, 2009  
 3 November, 2009  
 1 December, 2009  
 5 January, 2010  
 2 February, 2010  
 2 March, 2010  
 6 March, 2010  
 4 May, 2010  
 1 June, 2010



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.

*Making a  
change is*

*easy.*

*Making a*

*difference,*

*now there is*

*a challenge!*

## The President's Soapbox

Our front page story is a little different this issue. Having worked on several occasions with the Salvation Army Disaster Services I felt it was appropriate to highlight their services to our State. It is easy to remember what we do and forget the effort of others. These dedicated workers are deserving of our recognition as well.

It was great meeting Tom Breh-

mer NØLOH at the July meeting. The August D-Star update was timely and I truly enjoyed the discussion on the go-boxes. It has caused me to add a couple of items to my readiness kits.

The September meeting will be very timely considering the significance of the H1N1 flu virus and its importance for emergency plan-

ners. It will also give members to meet Polk County Emergency Manager A.J. Mumm. I want to thank Brenda McGraw KDØEDJ for organizing and presenting this topic.

Chili Feed / Auction in November. You should start saving your "Mad Money" I am!

73

Tom, NØVPR

## Member Profile: Ron Hobbs NØXWI

Ron Hobbs, NØXWI has been very active in the Des Moines Radio Amateurs Association for many year. Ron earned his technician license in July, 1993 and since that time he has endeavored to be a servant of the club. Ron was involved with the Hamfest committee whe the hamfest was at Valley High School. He has served as chairman for the event at least four years. Ron served on the Board in the late 90s. More recently Ron has re-

turned to serve as a board member and was instrumental in recruiting vendors and facilities the 2009 DMRAA Hamfest. He is currently working with the Field Day committee to find a more public location for the 2010 Field Day.

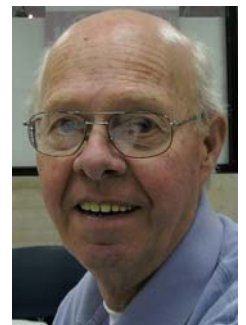
Ron was recognized for his many efforts in 2001. He was the recipient of the Mager Award in 2001.

Ron is also active in ARES. He participates in many of the exercises and

events in the Des Moines area. He coordinated the ARES communication for the 2009 State Fair Parade.

Ron has volunteered in other ways as well, He served as Scoutmaster for Troop 201 and has served on the committee for the Mid-Iowa Boy Scout Council.

Ron is joined in Amateur Radio by his son Kevin, NØXWG. We are indeed fortunate to have NØXWI on the team.



**Ron NØXWI**



Have you checked into a net lately? →

ARES Nets serve several purposes, including

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

Please check in!

Time to upgrade your license?  
→→→→

# 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-	9:00pm	Boone County ARES Net
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## DES MOINES

Sunday	146.940- t 114.8	8:00pm	Central Iowa ARES Net
Sunday	146.940- t 114.8	follows ARES net	Central Iowa technical Net
Sunday	146.820- t 114.8	9:00pm	ARTS Net
Thursday	146.940- t 114.8	7:00pm	Polk County ARES Net

(note) The Des Moines Sunday night nets are available thru the Shehdahl 147.075+ t 114.8 repeater

## MARSHALLTOWN

Sunday	147.135+ t 141.3	6:00pm	CIRAS Net,
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## WEBSTER CITY

Monday	147.015+	7:00pm	Hamilton County Radio Club Net
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## 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
Monday	3,990.5	5:30pm (1st Monday of the month)	Iowa RACES Net

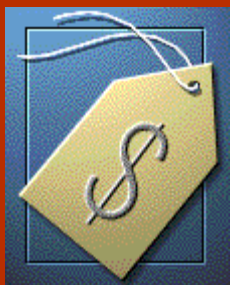
# Amateur Radio Testing Sessions

Des Moines	1:00pm	AMES	7:00pm	BOONE	9:00am
September 20		Saturday Sept 26, 10:00 AM		October 10,	
November 15		Wednesday, Nov 18, 7:00 PM		December 12	
registration starts at 12:30 PM (no admittance after 1pm)				Location:	
Location:		Location:		Kruck P&H Warehouse Office,	
Johnstone Supply Classroom (2nd floor)		1304 Howe Hall, Iowa State campus		807 6th St., Boone, Iowa	
11000 Justin Drive		Contact: George Oster, NP2N, 515-233-3535		Talk-In: 146.850	
Urbandale, IA 50322				Contact: Steve NØNEU (515) 432-4006	
Contact: Dan Miller ACØOF (515)285-7981					

Need 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  
Tom, NØVPR  
n0vpr@arrl.net



**FOR  
SALE**



## ETHAN AND STEVE LEARN ABOUT AMATEUR RADIO

Coming out of Hy-Vee on a warm August day with a fistful of groceries, I noticed a boy with his dad both taking an acute interest in the antennas on my car. The boy was standing on his tip-toes, twiddling with the one of the springy antennas on the trunk lid. His dad was more interested in what's on the other end of the antennas and was looking at what equipment's on the inside.

As I came up and unlocked the car, they both looked like they had been caught with their hands in the cookie jar. The dad quickly stepped back and apologized for peering.

"No, you're not intruding," I told the man. "You want to see what's inside?"

The boy quickly jumped into the passenger's seat without hesitation. As I turned on the engine, I introduced myself as an amateur radio operator. The 9-year-old boy, Ethan, explained that he and his dad Steve were from Colorado and visiting family in Des Moines during the state fair and saw a lot of cars on the way to Iowa with lots of antennas and "funny license plates on them," referring to vanity call sign plates. But neither of them really knew what was on the inside.

I showed them what each of the radios in the console did and what hams can do with them. I told them all about repeaters, simplex, APRS and gave a demo of analog FM vs. D-STAR and showed what we could do with D-STAR. We even talked about the differences between the antennas they have seen. Both were thoroughly impressed – and surprised – with the technology that hams come up with.

Out of curiosity, I asked the dad what surprised him about ham radio.

"I don't know, I suppose I just think of old men sitting in dark basements with big radios, talking to no one in particular," he said.

That's a pretty common image of ham radio, I told him. But these days it's so much more than that. I explained all the different digital modes hams use on HF, VHF and UHF. I explained AM-SAT and the ability to even communicate with the International Space Station, which perked up young Ethan's ears when he heard hams could do that. I also explained the public service that amateur radio operators provide at no charge. For Iowans, I usually explain that one of the first sightings of the Parkersburg tornado came directly from ham radio, providing valuable warning time ahead of the storm.

But that's just how it is today. The public won't know the true benefits of ham radio and everything that you can do with it unless we get out there in front of the public and do some outreach to dispel myths and open their minds.

This is a wireless world we're living in today, and we should be on top of it. The next person you find ogling your antennas could be the next Bob Bruninga (WB4APR) or Pete Loveall (AE5PL). But we'll never know until you reach out and make contact with them and make sure they stay in ham radio.

As for Ethan and Steve, I gave them some information on how to get ready for the test and how to find an amateur radio club near them to get them started. They both showed interest in taking the test together as a bonding activity, so hopefully there will be another father-son duo on the air this fall

.Kevin Sanders

KØDSM

### For Sale at the Chili Feed / Auction

TenTec Argosy 2  
TenTec Power Supply  
Bencher BY-1 paddle  
Trac Electronic keyer  
Mobile pack power supply  
Heathkit Small engine tune-up meter  
Heathkit timing light  
Heathkit Ultra Pro HD-8999

Heath Dummy Load HN-31  
Collins directional watt meter 302C-3  
Atlas-180 Single side-band and power supply  
Kenwood TR-2500 2mt HT with 3 batteries, charger and hand mic  
Harvey-Wells T-90 Transmitter  
2- J-38 Keys  
Plus miscellaneous items

These items are from the estate of Bill Homann KØHQE sk

Proceeds will be donated to the DMRAA for educational support.

For additional information  
Contact

Tom NØVPR 254-0244



## Salvation Army



336 individuals received spiritual counseling.

### Iowa's weather woes compounded

Heavy rains in northern Iowa pushed the Winnebago River out of its banks in Mason City inundating sections of the city. On June 9 the Des Moines mobile canteen was sent to Mason City to serve disaster workers and flood victims.

Two weeks after the northeast Iowa tornadoes, the Cedar River overflowed its banks in Waverly, then Cedar Falls and Waterloo closing businesses and forcing hundreds to evacuate their homes. The Salvation Army Waterloo and Cedar Rapids Corps helped meet their needs.

The flood waters churned downstream to Cedar Rapids, the hardest hit from the floods of 2008. The historic flood filled commercial and residential streets in Cedar Rapids and forced the evacuation of more than 24,000 residents – nearly a fifth of the city's population.

The Cedar Rapids Corps' Community Center was forced to move to other quarters by the raging flood waters which destroyed a railroad bridge over the Cedar River.

The Salvation Army's Heartland Division responded to the Cedar Rapids and Iowa City floods with disaster services units from Iowa City, Cedar Rapids, the Quad Cities and from Illinois Corps in Peoria, Pekin, Springfield and Galesburg.

Even before The Salvation Army ended service to Parkersburg and Mason City, forecasters were predicting flooding in Des Moines. Heavy rains in northern Iowa created flooding on the Des Moines River and its tributaries with the water heading downstream for the Saylorville Reservoir north of Des Moines. Army Corps of Engineers officials warned that the lake was nearing capacity and flood gates would have to be lowered, resulting in above flood stage river levels in Iowa's capital city.

With Des Moines' mobile canteen still in Mason City, the Council Bluffs Corps' canteen was dispatched to the capital city. Once the Des Moines canteen was able to return home on June 13, staff and volunteers were serving sandbags from it along with the Council Bluffs canteen.

When sandbagging operations ended on June 15, The Salvation Army had served 3,858 emergency workers and volunteers at sandbagging

sites around Polk County. A total of 7,234 sandwiches, 10,602 beverages and 3,723 snacks were served. Feeding continued at a central recovery site in Des Moines for several days.

Nearly 80 miles downstream in Ottumwa, levees within the city held up against the raging river, but in nearby rural areas, several hundred families were displaced. With assistance from the mobile canteen and crew from the Fort Dodge Corps, the Ottumwa Corps fed hundreds of disaster workers and victims each day working 24/7 for four consecutive days. The Corps provided meals at eight feeding sites along a 45-mile stretch of the flooded Des Moines River.

### Another tornado and strong winds

Barely two weeks after the Parkersburg disaster, a tornado tore through and leveled the Little Sioux Boy Scout camp in western Iowa, killing four young scouts and injuring nearly 50. John Kuzma and the Omaha and Sioux City Salvation Army emergency disaster services teams were on scene with food, hydration and spiritual guidance throughout the night.

Just when it seemed Mother Nature was taking a rest, June 27 brought straight-line winds to the Omaha and Council Bluffs metro with wind speeds up to 110 mph. Mass destruction from broken tree limbs and completely uprooted trees could be seen in every part of the city, destruction that caused power outages city wide.

While residents cleaned up and power company crews worked around the clock to restore power, many were left without electricity for days resulting in spoilage of food in refrigerators and freezers. The Salvation Army and several area businesses united to provide grocery gift cards for those in need.

### More Salvation Army disaster services

In addition to feeding victims and relief workers, Salvation Army caseworkers can provide direct financial assistance to disaster victims. Caseworkers from Des Moines were stationed at neighborhood FEMA sites after the Birdland levee break.

Working closely with amateur radio groups

including The Salvation Army Team Emergency Radio Network (SATERN) the Army helps provide emergency communication where more traditional communication services are not operating. These dispatches include relaying information about the disaster and transmitting welfare inquiries from friends and family members who are otherwise unable to reach loved ones in the disaster area.

The mission of The Salvation Army is to preach the gospel of Jesus Christ and to meet human needs in His name without discrimination.

The Salvation Army provides spiritual comfort and emotional support to disaster victims and emergency workers coping with the stress of a disaster. Operating from a philosophy of "heart to God, hand to man," Salvation Army counselors – often Corps officers who are ordained clergy – may simply offer a "ministry of presence." However, people who know about The Army's mission often ask for prayer or help from the Bible.

At Ground Zero following 9/11, one of the



most critical ministries of The Salvation Army was counseling firefighters, police and morgue workers who were struggling with the enormity of the tragedy.

Salvation Army relief efforts are supported solely by contributions. Donations to assist The Salvation Army in its relief efforts can be made online at [www.salvationarmyusa.org](http://www.salvationarmyusa.org), by phone at 800-SAL-ARMY or by mail to P.O. Box 933, Des Moines, IA 50304.

For more than a century, The Salvation Army has worked to meet human needs whenever and wherever a disaster strikes. It's how The Salvation Army spells "relief."



# Ham Radio in the 21st Century

## Board Meeting Minutes

### AUGUST

At 7:00pm on Tuesday, August 4, 2009, the DMRAA Officers and Board of Directors held their monthly meeting. All duly elected officers were present. All board members except for Ron Hobbs, NØXWI, were present. No guests were in attendance. After approving the minutes of July 7, 2009, the following items were discussed:

#### Old business:

Preparations for Field Day 2010 are continuing with the members of the Field Day subcommittee tasked with identifying potential alternative sites in the metro area (such as Jordan Creek mall) and reporting back to the Board by the October 2009 Board meeting.

Dates for the Christmas Party are being solidified, with the date of 12/15 being agreed upon unless there was conflict with the ART's Christmas Party, in such case the DMRAA Christmas Party will be 12/1.

#### New business:

After much discussion, the Board decided to not agree to host the ARRL Section Convention at the 2010 Hamfest due to various concerns. However, consideration will be given to holding it in 2011 if a request comes from the ARRL.

The possibility of having an amateur

radio special event station and/or other type of event at the Iowa State Fair was also briefly discussed.

Treasurer's report: \$6,906.04

#### Subcommittee reports:

The Chili Feed will be held on 11/24/09 at the St. Paul Presbyterian Church in Johnston.

The Boy Scout Jamboree will be held the 3rd weekend in October, 17th and 18th; The week before a 3-4 hour class will be offered to the Scouts.

### September

On September 1, 2009, the Officers and Board of Directors of the DMRAA convened their monthly meeting. All were present except for the Treasurer, Bill Claypool, NUØQ. No guests were in attendance. After approving the minutes of the August 4, 2009, meeting, the following items were discussed:

#### Old Business:

The Christmas Party will be held on December 1<sup>st</sup>. Arrangements have been made to secure Waveland Rooms #1 and #2 which has access to the kitchen. An inquiry will be made as to whether the Bell Ringers will once again be available to perform.

Alternative Site locations for Field Day 2010 are being looked into with a full report on the viability of

Jordan Creek to be made at the October meeting. Concerns with the site include underground watering and other lines/cables which may interfere with stakes, supports and grounding requirements.

Chili Feed/Auction will be held on Tuesday, November 24<sup>th</sup> at the St. Paul Presbyterian Church in Johnston. Help is needed in preparing the venue and chili.

#### New Business:

No motions were made concerning any new business items.

Discussion was held concerning the possibility of presenting a Public Service or similar award to an area ham for service and support to ham radio in the Des Moines area.

Treasurer's Report (in absentia): \$6,015.28

#### Subcommittee Reports:

The Program Subcommittee is in need of suggestions for presentation topics for the 2010 season. Please contact George Noble, KK7FM, if you have suggestions.

The Boy Scout Jamboree on the Air was discussed. It is to be held 10/17 and 10/18 with a 3-4 hour class the week prior. Due to scheduling issues it is not known if the event will be held. No formal motions were made.

*The Des Moines Radio Amateurs Association board meets monthly in the community room at Dahl's 33rd & Hubbell*



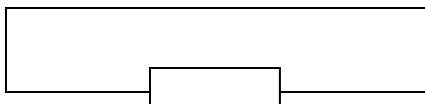
OPTO continued from page 7

nect your microphone and allows you to change the volume control on your Receiver without affecting the Interface. Older Transmitters must have a cable from the Interface to the Microphone input of your Transceiver and must run a cable from the External speaker jack to the Interface.

The Interface I purchased fits about 200 different radios and is the type that has you disconnect the Microphone from the Transmitter and plug into the Interface then there is a double ended cable with a 8 pin round connector on one end with a 8 pin data plug on the other end. The receive from the Transceiver connects from the external speaker jack direct to the PC Soundcard MIC IN or LINE JACK. I did it different as I made up a different cable to connect to the ACC jack on the ICOM radios. I could have got by with a \$99 interface in place of my \$150 interface. Most interfaces have a level control in the Transmit direction only. Sound Card Out to Interface-Level control plus I:I transformer-Interface to Microphone in or Audio in on the ACC jack in my case.

DANGER the 8 Pin Data or flat type microphone connectors seem to count different for different Transceiver manufactures. Some count left to right 1-8 and others count 8-1 left to right.

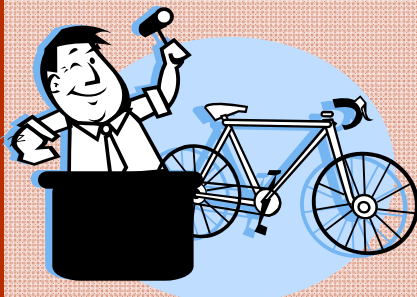
This is looking at the wire side of the 8 pin plug and per my info on my ICOM it is 1-8



left to right. If you make a cable with one of these on the end good luck. There are two kinds of plugs. One kind is for solid wire and the other is for stranded wire. I think it is better to purchase a cable with ends already on and just cut it in the middle and now you have two cables. Be careful and do not try to run these cables to long as you may pick up AC or hum.

Good luck and I will have the article on the interface done before the summer is done.

## Mark your Calendar!



Des Moines Radio Amateurs Association annual

### Chili Feed and Auction

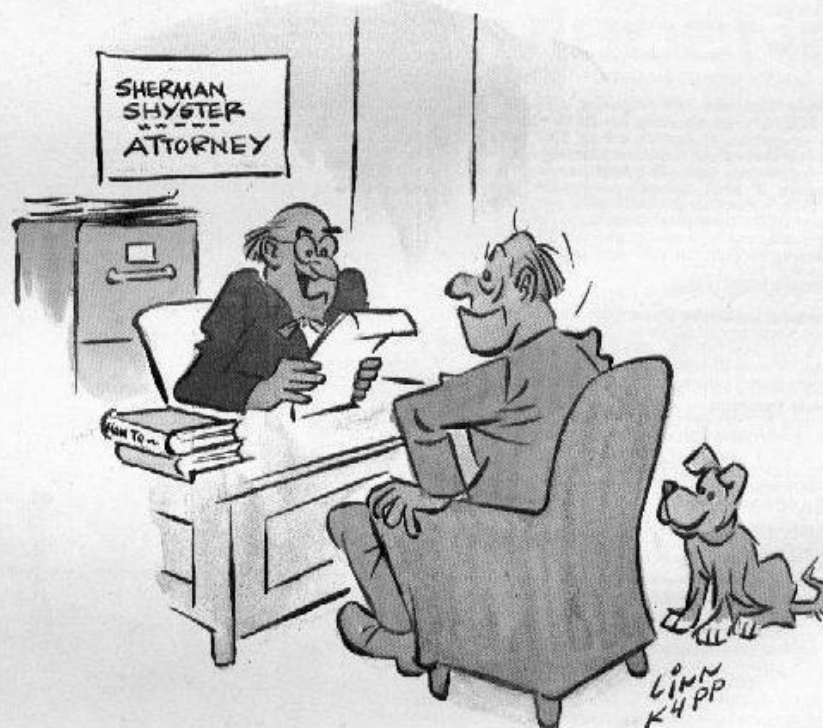
November 24, 2009  
 St. Paul Presbyterian Church  
 6426 Merle Hay Road, Johnston  
 Admission is \$ 5.00

Chile served 6pm

Auction begins at 7PM

Well . . . I Can Dream, Can't I?

by Bandel Linn K4PP



"And under the terms of the will, your uncle is leaving you \$750,000—of which \$50,000 must be spent for ham gear."



Des Moines Radio Amateurs Association  
P.O. Box 88  
Des Moines, IA 50301  
DMRAA.com or DMRAA.org  
E-mail: info@dmraa.com

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.



Can you hear me now?

# 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

Dues \$20 Single  
\$60 3 Years

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

