



June, 2019

Accurate, Reliable Emergency Communications for our Community

Volume 19, Number 6

Field Day 2019

June 22nd - 23rd

ARRL Field Day is the most popular on-the-air event held annually in the US and Canada. On the fourth weekend of June, more than 35,000 radio amateurs gather with their clubs, groups or simply with friends to operate from remote locations



The objective is to work as many stations as possible on the 160, 80, 40, 20, 15 and 10 Meter HF bands, as well as all bands 50 MHz and above, and to learn to operate in abnormal situations in less than optimal conditions. Field Day is open to all amateurs in the areas covered by the ARRL/RAC Field Organizations and countries within IARU Region 2. DX stations residing in other regions may be contacted for credit, but are not eligible to submit entries.

Field Day is ALWAYS the fourth full June weekend (June 22nd - 23rd, 2019), beginning at 1800 UTC Saturday and ending at 2059 UTC Sunday.

Field Day entries are classified according to the maximum number of simultaneously transmitted signals, followed by a designator indicating the nature of their individual or group participation. The minimum number of transmitters that must be claimed is one (1).

In addition to the number of transmitters there is also an array of "Classes". These classes divide participants into similar groups to even the competition for score keeping. The station classes are as follows:

- (Class A) Club / non-club portable,
- (Class A - Battery) Club / non-club portable,
- (Class B) One or two person portable,
- (Class B - Battery) One or two person portable,
- (Class C) Mobile,

Field Day *cont'd on page 3*

The ARES COMMUNICATOR is published for the benefit of Amateur Radio Operators in Scott County and other interested individuals.

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Served Agency Interest?

There has been discussion recently regarding renewed interest by the metro hospitals in considering the possible use of amateur radio as an option.

In the wake of the 911 attack the Department of Homeland Security's recommendations included the utilization of amateur radio in emergency communications plans.

Amateurs demonstrated their ability to link incompatible organization communication systems during disaster response. This feature along with the cost (free), availability, and existing networks contributed to amateur radio's attractiveness.

Most of the hospitals in the Metro area, through the Hospital Compact were awarded the funds to make a group purchase of dual-band VHF/UHF transceivers and dual-band antennas. Scott ARES provided installation assistance and troubleshooting to put the stations at St. Francis Regional Health Center and Queen of Peace Hospital on the air.

Originally the stations were operated on a monthly basis by ham-licensed hospital employees over their lunch break. The hospitals coordinated with local ARES groups to varying degrees.

If you would like to become involved more closely with a local hospital if their interest is renewed, please contact Bob, N0BHC@ScottARES.org.

ARES Activities

Weekly Net Monday 7 PM 146.535 mhz (s)

Breakfast Saturday, July 13th

Digital Monday, July 15th

ARES Nets

MN ARES Phone Net	
6:00PM Sunday	Freq: 3.860 mhz
ARRL MN Phone Net	
12:00p, 5:30p CST Daily	Freq: 3.860 mhz
ARRL MN CW Net	
6:30p, 9:50p CST Daily	Freq: 3.568 mhz

NETS WITH OUR NEIGHBORS

North Dakota:	Daily 3.937 mhz	6:30pm
South Dakota:	Daily 3.860 mhz	6:00pm
Wisconsin:	Daily 3.985 mhz	5:30pm
Iowa:	Daily 3.970 mhz	12:30/5:30pm

Ecomm Mgmt Self Study

Public Service and Emergency Communications Management

The ARRL Public Service and Emergency Communications Management for Radio Amateurs (EC-016) course is designed to train licensed Amateur Radio operators who will be in leadership and managerial roles organizing other volunteers to support public service activities and communications emergencies. In this course you will learn how radio amateurs prepare and organize to support local community events, and, working in coordination with governmental and other emergency response organizations, deploy their services to provide communications when needed in an emergency.

The course is made available on-line on the ARRL website to all ARRL members. It is a self- study course that you may complete at your own pace. Studying the content of this course is expected to take a minimum of 30 hours. This does not include the time needed to complete the FEMA courses that are referenced as background knowledge for this course. Additional time will be needed to do the suggested activities that will reinforce the content and help you to understand how the topics apply. It is suggested that you develop a plan for completing this course over a period of 2-3 months, depending on your personal schedule.

Further information and portal of entry can be found here:

www.arrl.org/online-course-catalog

BREAK - OVER



Congrats

Graduates!

Scott County ARES Contacts

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Chaska, MN
KD0UWZ at scottares.org



Test Your NIMS Knowledge

This month we begin our review of ICS-800C, An Introduction to National Incident Management System. The goal of IS 800C is to familiarize participants with the National Response Framework and the ways it is applied in actual response situations.

Check your recall of the course material with this question.

1. The National Response Framework is:
 - A. Triggered following a declaration by the Security of Homeland Security.
 - B. Written exclusively for professional emergency management practitioners.
 - C. A comprehensive guide to preparedness, response, recovery, and mitigation.
 - D. Part of the larger National Strategy for Homeland Security.

Check next month's ARES Communicator for the solution

May NIMS Knowledge Solution

1. Unified Command:
 - B. Enables all agencies with responsibility to manage an incident together by establishing a common set of incident objectives and strategies.



NBEMS Current Versions

The current version of the Fldigi manual is available at NBEMS Info page at www.scottares.org. Look under the 'Help Sheets' heading.

Now is a good time to check to your digital software to make sure you are running the newest versions. You can find the most recent versions posted at both: www.w1hkj.com/ and www.scottares.org/NBEMS.htm

Here are the most recent releases as of June 20, 2019.

Software	Version
Fldigi	4.1.04
Flwrap	1.3.4
Flmsg	4.0.10
Flamp	2.2.04

The Monday evening training net is a great place to have your digi questions answered and problems solved! Join the Scott ARES group on 146.535 mHz simplex at 7:00pm on Monday evenings.



Field Day - cont'd from page 1

- (Class D) Home stations
- (Class E) Home stations - Emergency power,
- (Class F) Emergency Operations Centers (EOC).

Stations exchange specific information during the contest to identify ARRL Sections contacted. The exchange is: Stations in ARRL / RAC sections will exchange their Field Day operating Class and ARRL / RAC section. Example: a three transmitter Class A station in Minnesota which also has a GOTA station and the extra VHF station would send "3A MN" on CW or Digital, or "3 Alpha Minnesota" on Phone. Making contacts from your permanent home station on utility power the exchange would be "1D MN" on CW or Digital or "1 Delta Minnesota" on phone.



Visiting a Field Day station in the area near you is a fun experience and you may meet some interesting neighbors! You can find a Field Day site near you (www.arrl.org/field-day-locator). Here is a map locating some sites in the metro area:

A: WB0RMK, SMARTS

Lions Park
Carver, MN
Talk-in: 147.165+
Contact: Monte Casebier
(612)889-5134
ad0db@hotmail.com
www.smartsonline.org

B: W0BU, Twin Cities Repeater Club

Neill Park, Burnsville
44.758125, -93.312253
Talk-in: 147.210 tone 100hz
Contact: Brett Knudson
6512711843
membership@tcrcl.org
www.tcrcl.org

C: K0EPR, Eden Prairie Radio Club

Miller Park, 8405 Shoreline Drive
Eden Prairie, MN
Talk-in: 146.880
Contact: Dale Blomgren
9524022155
kdzerob@aol.com
<http://edenprairieradioclub.blogspot.com>

D: W0CGM, South East Metro ARC

1265 Sterling St So
Maplewood, MN
GOTA: no
Talk-in: 146.985
Contact: Dave Blume
612-581-7557
ic_geeps@yahoo.com
www.semarc.com

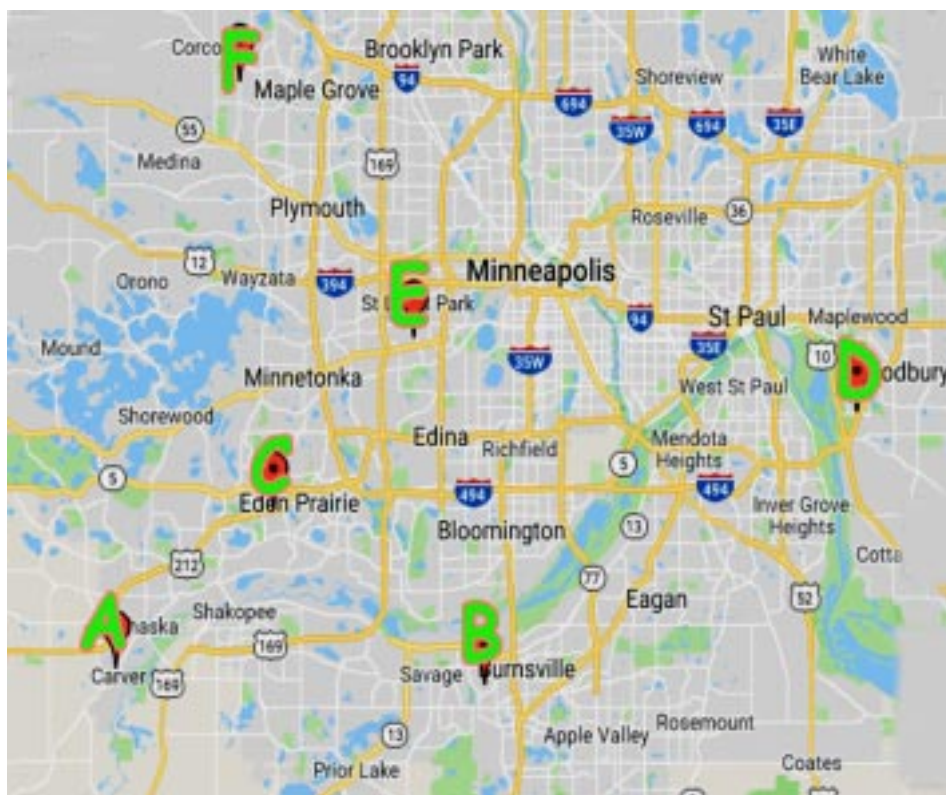
E: W0EF, Twin City FM Club

3520 Louisiana Ave S,
St Louis Park, MN 55426
Talk-in: 444.100
Contact: Anthony Hirman
7634129014
n0pvc@arrl.net
tcfmc.org

F: K0LTC, Maple Grove Radio Club

18934 67th Ave N
Maple Grove, MN
GOTA: YES
Talk-in: 147.000+ 114.8
Contact: Benton Jackson
763-537-1722
president@k0ltc.org
<https://k0ltc.org/>

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Red Cross, FEMA Demo

Digital Emergency Messaging

With Red Cross officials and Federal Emergency Management Agency (FEMA) personnel monitoring, dozens of radio amateurs along the US east coast on May 23 demonstrated Amateur Radio's ability to deliver messages without commercial power, infrastructure, or permanently established stations. The event took place in coordination with ARRL.

The demonstration was a mock response to a simulated disaster scenario — a major hurricane with mass casualties.



W1AW Station Manager Joe Carcia NJ1Q and ARRL Emergency Preparedness Assistant Manager Ken Bailey, K1FUG, are relaying messages from field operators while Red Cross volunteer (and radio amateur) Rosty Slabicky, W2ROS, looks on.

During the event, radio amateurs at portable stations from New England to the Carolinas delivered message traffic to W1AW, where Station Manager Joe Carcia, NJ1Q, and ARRL Emergency Preparedness Assistant Ken Bailey, K1FUG, coordinated and relayed the information to an amateur station at the Baltimore American Red Cross office for officials attending a joint Red Cross-FEMA meeting there.

“About a dozen stations participated in the demonstration, including operators in Virginia, Maine, Rhode Island, Massachusetts, New York, northern New Jersey, western Pennsylvania, Delaware, and South Carolina,” ARRL Communications Manager Dave Isgur, N1RSN, said. “Red Cross officials were on-site at W1AW and at the receiving station in Baltimore. [Red Cross volunteer Rosty Sablicky, W2ROS, observed the W1AW operation]. At both sites, they indicated that they were impressed with Amateur Radio's ability to deliver messages digitally so that they could be displayed on a computer screen and in a format that matched the format for messages that the Red Cross uses.”

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In Virginia, ARRL Section Manager Dr. Joe Palsa, K3WRY, and Section Emergency Coordinator John Roberts, WB4AXY, participated as well as Greg Butler, KW6GB, who transmitted digital mode messages to W1AW. When the messages collected from all participating stations were transmitted

from W1AW to the Red Cross receiving station in



**American
Red Cross**

Baltimore, Butler provided backup reception of the messages in northwestern Virginia.

The Virginia Section recently underwent a massive rebuilding program, re-establishing its ARES and other emergency communications programs. Butler developed and recently upgraded the state's Winlink capabilities. A weekly exercise, dubbed “Winlink Wednesday” is conducted with about 100 check-ins from Virginia digital stations, and another 20-30 Winlink-equipped stations from outside the state.

Check-ins employ multiple modes, such as traditional Winlink hybrid internet connections via HF Pactor and Telnet, Peer-to-Peer (P2P) connections and a new mode called ARDOP, for *Amateur Radio Digital Open Protocol*. The ARDOP project is a joint development effort among Amateur Radio developers that seeks to provide a specification and implementation (software or hardware) for a modern versatile open digital protocol. See <https://qsl.net/kw6gb/> for more information on Winlink Wednesday.

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First Thursday Net

Metro District Hospital Net

The Metro District ARES Hospital net is held on the first Thursday of each month. The purpose of the net is to provide an opportunity to exercise Dual-band xcvrs installed at hospitals and clinics in the metro area. The net is open to all amateur radio ops and provides the opportunity to participate in a directed net and practice directed net procedures.

Everyone is welcome!

- First Thursday of each month
- 12:30PM (lunch time)
- 146.700 - (PL118.8)



Public Service Events



JULY

July 4th

City of Richfield 4th of July Parade

July 4th – 8:30 AM – 4 PM

Contact: Thomas.york@botmail.com Thursday,

July 21st

Ride Across Minnesota 2019 Willmar, MN

Jul 21, 2019 - Multiday

Sign up: https://secure.nationalmssociety.org/site/SPageServer?pagename=BIKE_HOM_events

July 21st

HOLT Triathlon

Annandale, MN

Sunday, 8 AM

Contact: WBOTRA@Gmail.com

July 27th

Chaska River City Days 5K Run

Saturday, – 8 AM

Contact: jozu.jones@gmail.com

AUGUST

August 3rd

Tour De Tonka –

7 AM – 12-Noon

28 Mile Course Carver/Orono

Sign up at ARESMN.org

August 3rd

Waseca Sprint Triathlon – Waseca Radio Club/

Waseca, MN –

Clear Lake Park 8 AM

Contact: Jon, WB0ZFH@botmail.com

August 10th

Gaylord Extravaganza -

5K Run, Parade and Fireworks

Saturday 8 AM

August 18th

North Mankato Triathlon

Sunday, - 8 AM

Contact Steve/ k2kln@arrl.net

Take a Dip in the General Pool

Time to test your knowledge of the information covered by the General Class license exam. Each month we'll take a look at a selection from the question pool.

Strap on your thinking cap and see what you can recall. Here is this month's sample:

1. What is meant when memory is characterized as “non-volatile”?
 - A. It is resistant to radiation damage
 - B. It is resistant to high temperatures
 - C. The stored information is maintained even if power is removed
 - D. The stored information cannot be changed once written
2. How is an LED biased when emitting light?
 - A. Beyond cutoff
 - B. At the Zener voltage
 - C. Reverse Biased
 - D. Forward Biased
3. What is the peak-inverse-voltage across the rectifiers in a full-wave power supply?
 - A. One-quarter the normal output voltage of the power supply
 - B. Half the normal output voltage of the power supply
 - C. Double the normal peak output voltage of the power supply
 - D. Equal to the normal output voltage of the power supply

(Check next month's issue of the ARES Communicator for the answer.)

Monday Evening 7PM

The Scott ARES net meets every Monday evening at 7:00 PM either on 146.535 simplex or on the first Monday of the month the WBORMK repeater 147.165 (PL 107.2).

The net is in a directed net format and provides the opportunity to practice working in an emergency net style.

There is help available in setting up and using NBEMS digital messaging software and generally a weekly digital message for practice.

Everyone is welcome to check in and contribute two cents worth!

May General Pool Answers

1. What is meant by the term ROM?
 - B. Read Only Memory
2. What is one disadvantage of an incandescent indicator compared to an LED?
 - D. High power consumption
3. What safety feature does a power-supply bleeder resistor provide?
 - B. It discharges the filter capacitors

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Amateur Radio License Exam

Want to become a ham? Want to upgrade your license? You can find information and resources to success in ham radio at this page: <http://www.scottares.org/License Info.htm>
If you want to ask questions or find a local Elmer (Mentor) just drop an email to: newhaminfo@scottares.org

The hams in Scott ARES gather for breakfast the first Saturday of the month at the Perkins Restaurant in Savage. Bring you ham radio questions and talk to local amateur radio operators.

Now that you have done the work to study for your upgrade, here is where to find a convenient exam session near you. There is a VE exam search engine at: http://www.arrl.org/exam_sessions/search

Walk-ins allowed at most sessions however it is always best to check the details at the specific session you are planning to attend. Below is a list of scheduled sessions close to Scott County. Good Luck!

June 29, 2019 Saturday 8:45 AM

Sponsor: Bloomington Off/Emergency Mgmt
Daniel J. Royer (952) 888-9756
Email: dandroyer@gmail.com
Location: City Hall-Police Department
1800 W Old Shakopee Rd
Bloomington MN 55431

July 10, 2019 Wednesday 7:00 PM

Sponsor: VARC
James C. Rice (612) 384-7709
Email: jrice@danpatch.org
Location: Perkins Restaurant & Bakery
17387 Kenyon Avenue
Lakeville MN 55044-4459
Walk-ins allowed, Pre-reg requested

July 20, 2019 Saturday 9:00 AM

Sponsor: SEMARC
Daniel M. Franz (651) 769-0358
Email: wd0gup@hotmail.com
Location: Zion Lutheran Church
8500 Hillside Trail South
Cottage Grove MN 55016
Walk-ins allowed, Pre-reg requested

July 29, 2019 Monday 6:00 PM

Sponsor: SMARTS
Dale A. Blomgren (952) 402-2155
Email: kdzerob@aol.com
Location: Carver County Library
7711 Kerber Blvd
Chanhassen MN 55317
Walk-ins allowed, Pre-reg requested

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August 14, 2019 Wednesday 7:00 PM

Sponsor: VARC
James C. Rice (612) 384-7709
Email: jrice@danpatch.org
Location: Perkins Restaurant & Bakery
17387 Kenyon Avenue
Lakeville MN 55044-4459
Walk-ins allowed, Pre-reg requested

August 17, 2019 Saturday 9:00 AM

Sponsor: SEMARC
Daniel M. Franz (651) 769-0358
Email: wd0gup@hotmail.com
Location: Zion Lutheran Church
8500 Hillside Trail South
Cottage Grove MN 55016
Walk-ins allowed, Pre-reg requested

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ARES Breakfast

Saturday
July 13th 2019
7:30AM
Hy-Vee Market Grille,
6150 Egan Dr, Savage, MN

NECOS Schedule June 2019

The first Monday or the month the net is held on the WB0RMK repeater, Carver. You will find WB0RMK here: 147.165/765 PL 107.2

The NECOS script is on the Scott ARES website: www.scottares.org/Member Resources.htm

Date NECOS_____

June 24th - WA0DGW John

July 2019

July 1st - KD0UWZ Chad First Mon. Net

July 8th - Volunteer

July 15th - WA0DGW John

July 22th - KD0UWZ Chad

July 29th - Volunteer

August 2019

Aug 5th - WA0DGW John First Mon. Net

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