



ARRL Midwest Division Newsletter Special Edition 2018



2018 ARRL Midwest Division Convention The First Annual Midwest STEM TechFest Linn County Fairgrounds Just outside Cedar Rapids, Iowa August 4 & 5, 2018

The Cedar Valley Amateur Radio Club in Cedar Rapids, Iowa is delighted to announce that we are hosting the 2018 American Radio Relay League (ARRL) Midwest Division Convention, August 4th & 5th, 2018 at the Linn County Fairgrounds, 201 Central City Rd, Central City, Iowa. The grounds occupy a 39 acre site along with six acres of free parking, so there will be plenty of room for convention activities.

Please Use <https://arrlmidwestconvention.org/> to order and pay your convention fees.

A large attendance is expected from not only the Midwest Division states, but also neighboring Minnesota, Wisconsin, and Illinois as well.

Based on declining attendance at hamfests across the country in recent years, CVARC has chosen to modify the traditional hamfest / convention format and include other STEM (Science, Technology, Engineering, and Math) organizations in addition to amateur radio groups. It is our belief that this cross-pollination of STEM organizations will help strengthen each other with a win-win event for all involved. Yes, we will still have a MONSTER hamfest, both indoors and outdoors.

There will be traditional convention activities such as Forums, Organization Meetings, and Hands-on Activities for kids and adults alike.

We have enough space to include balloon launches, drone races, rocket launches, and radio control hobbyists in the track centerfield.

There will be a banquet Saturday night with a Wouff Hong ceremony afterwards.



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There is limited camping onsite and a large campground (Pinicon Ridge Park Campground) across the 4-lane highway for those wishing to camp at the event.

Hotels are 15 minutes away.

VE Testing will be available Saturday and Sunday.

This is YOUR Convention. Individuals, organizations, and clubs wishing to host a forum, organizational meeting, other activities are welcome to email me with suggested topics. We want your involvement!

We hope to see you all at the Convention; THE big event of the summer!

73 de Tim Busch, NØCKR
Convention Chairman
CVARC_Info@yahoo.com

Schedules

Here is the tentative convention schedule:

(Note: Forums & Times are Subject to Change – Check <https://arrlmidwestconvention.org/>)

Convention / Hamfest Grounds Schedule

Fri., Aug. 3, 2018: 2:00 pm – 9:00 pm Set-up Time for Vendor, Flea Market, & RV
Sat., Aug. 4, 2018: 6:00 am – 8:00 am Set-up Time for Vendor, Flea Market, & RV
Sun., Aug. 5, 2018: 6:00 am – 8:00 am Set-up Time for Vendor, Flea Market, & RV

Sat., Aug. 4, 2018: 8:00 am – 5:00 pm Convention grounds open to Public
Sun., Aug. 5, 2018: 8:00 am – 2:00 pm Convention grounds open to Public

Banquet & Wouff Hong Ceremony – Sat. Evening in Building North of Parking Lot

6:00 pm - Happy Hour Social Gathering
7:00 pm - meal served, Keynote Address by Rick Roderick, K5UR, ARRL President
9:30 pm+ Wouff Hong Ceremony

Volunteer Examiner (VE) Testing Sessions: Contact Darrel Peterson, WAØKHH,
wa0khh@juno.com to sign-up for a license exam. The exams will be administered at:

1:00 pm Saturday, Aug. 4th
9:00 am Sunday, Aug. 5th



Make-It / Take-It Build Project Schedule – Saturday

- 10:00 am - Cricket Build Project
- 11:00 am - Fox Hunt Forum
- 1:00 pm - Fox Hunt Antenna Build Project
- 3:00 pm - On-Site Fox Hunt
- 4:00 pm - Humanalight Build Project

Forum Presentation Schedule

SATURDAY – Area 1

- 10:00 am - The Search for Amelia Earhart's Airplane – Rod Blocksome, KØDAS
- 11:00 am - Amateur Radio Emergency Service – Scott Haney, NØGUD
- 1:00 pm - ARRL Forum – Rod Blocksome, KØDAS, Art Zygielbaum, K0AIZ
- 2:00 pm - OPEN
- 3:00 pm - Repeater Councils Meet-up – Chris Conklin, N0CF, Iowa Repeater Council

SATURDAY – Area 2

- 10:00 am - Collins Collectors Association – Francesco Ledda, K5URG
- 11:00 am - Collins Locations – Mark Hunter
- 1:00 pm - The Iowa DMR Project – Tom Bicket, AE0TB & Scott Lowe, WA0TPN
- 2:00 pm - IEEE Forum – David Cripe, NM0S & Dan Roesler, WD0HOJ
- 3:00 pm - EMP CME and the Electronic Apocalypse – David Cripe, NM0S

SATURDAY – Area 3

- 10:00 am - Electronics Kit Building – Joe Eisenberg, KØNEB
- 11:00 am - Radio Fox Hunting Fundamentals – Clint Miller, WØGR
- 1:00 pm - ARRL Product Review Testing Process and Tests – Bob Allison, WB1GCM, ARRL HQ Laboratory Engineer
- 2:00 pm - University of Iowa Operator Performance Laboratory – Dr. Tom Schnell
- 3:00 pm - Amateur Radio Growth – Tim Busch, NØCKR

SUNDAY – Area 1

- 9:00 am - STEM Educational Opportunities – Monica Challenger
- 10:00 am - Youth Tech (Scouts, 4-H, & Others) – Dudley Allen, KDØNMD
- 11:00 am - Amateur Radio & Boy Scouts – Troup 40, Mt. Vernon, IA
- 1:00 pm - Youth Robotics Programs – Erik Malvik

SUNDAY – Area 2

- 9:00 am - Software Defined Radios – Marty Wittrock, KN0CK
- 10:00 am - Introduction to KiCad PC and Schematic Layout – Barry Buelow, W0IY



ARRL QSL Card Checking: Available during convention hours

Consignment Table: There will be an indoor consignment table operated by CVARC. The fee is 10% of the sell price. Contact Tom Hess, KD0HF, tomhess8@gmail.com 319-395-9620 to make arrangements.

Outdoor Demonstrations (Track Infield Area)

11:00 am Saturday – Quad Copter Flight

This is a demonstration of putting up antenna supports for wire antennas and such, possible method to inspect an antenna without climbing a tower - and anything else that might be of interest to people.

2:00 pm Saturday - Autonomous Vehicle Demonstration

This is an autonomously guided ground vehicle that uses on board logic to find the best route for travel.

1:00 pm Sunday - Autonomous Vehicle Demonstration

This is an autonomously guided ground vehicle that uses on board logic to find the best route for travel.

Associated Activities

The **Collins Collectors Association** will host a dinner with keynote speaker at the Long Branch Hotel (Best Western) in Cedar Rapids Friday Evening. For details and reservations go to: <http://www.collinsradio.org/>

HF On-the-Air Stations Located in the EMA Tent; Convention Hours

KØN - Special Event Station, Dave Cripe, NM0S, Cedar Valley ARC

W0CXX - Classic Collins Amateur Station, Gregg Lind, KC0SKM, Rockwell Collins ARC



Food and Refreshments

There will be a Food Court on the Fair Grounds operated by the Linn County 4-H Clubs. Please support this worthy youth organization

Additional establishments nearby in Central City include:

- Stove House Diner**, 2 Al Waterhouse Ave., Central City, IA
- Subway Restaurant**, 2 Al Waterhouse Ave., Central City, IA
- Wapsi River Bar & Grill**, 347 E. Main St., Central City, IA
- Montana's Family Restaurant**, 433 E. Main St., Central City, IA

Banquet Saturday Evening

The Saturday evening festivities will begin at 6:00 PM in the building Northwest of the Fair Grounds Entrance with a Social Hour followed by a catered buffet meal at 7:00 PM. After the dinner ARRL President Rick Roderick, K5UR, will deliver the keynote address entitled:

"The Greatest Hobby in the World - How are We Doing?"

If you have not met Rick before or heard talk about our great hobby of Amateur Radio, now is your chance. I've known Rick for about 40 years – primarily in the "World Above 50 MHz" and more recently on the ARRL Board. Here is a biographical sketch of K5UR.

Rick Roderick - K5UR

Rick lives north of Little Rock, Arkansas on a 50 acre hilltop QTH. He's been a ham for 50 years and is a Life Member of the ARRL.

Rick has held numerous ARRL volunteer positions continuously for all of those 50 years. He has been on the ARRL Board of Directors for 26 years and currently serves as President. He has served on all standing committees of the ARRL Board of Directors and served on numerous other committees and task forces of the Board over the years. He also served on the DXAC and was chairman for many years. He was instrumental in the creation and implementation of Logbook of the World and the DXCC Challenge Award.



Rick has held numerous HF and VHF/UHF operating and achievement awards. Rick is an avid DXer with 371 countries worked, including 325 countries on 160 meters, 353 countries on 80 meters, 354 countries on 40 meters, some of the top standings in the world. He holds DXCC on 10 bands and is ranked 7th in the world on the DXCC Challenge Award. He holds over 20 different Worked All Zones Awards, and was one of the first to achieve Worked All Zones on 160 meters.

On VHF/UHF, he's held many operating and achievement records, including the world distance record for QSO's on 2 meters meteor scatter and 222 MHz tropo. He was one of the first to work all continental 48 states on 2 meters without the use of moonbounce, 47 states in one year. He is second in the world on 6 meters VUCC and first in the world on VUCC for 2 meters, 222 MHz, 432 MHz, and 1296 MHz using no EME. All VHF/UHF totals were done without the use of digital modes. He received the Fred Fish Memorial Award #3 for having worked all grid squares in the United States on 6 meters.

Rick graduated from the University of Arkansas with a B.S degree in Mathematics, an M.S. degree in Operations Management, and a Juris Doctor degree. After working 20 years in business, he entered private practice with an emphasis in labor and employment law, and is Managing Partner of a law firm with three locations in Arkansas. He and his wife, Holly, have two grown children. Holly is well-known for her active part in representing Amateur Radio and the ARRL wherever they go.

He loves ham radio!

Wouff Hong Ceremony

About 30 minutes following the conclusion of the banquet agenda, we will conduct the Wouff Hong ceremony. This is a tradition that goes back to the very early days of the ARRL and is only presented at Division or National level ARRL Conventions. If you've never been inducted into the Wouff Hong membership – now is your chance.



Make-It/Take-It MAKER PROJECTS AT THE CONVENTION

PROJECT #1



This year's first build session kit is the Humanalight, a simple LED flashlight for weak AA batteries.

The Humanalight is sold by the charitable organization Ears To Our World as a means of providing radios and flashlights to those in need of communication and light. Thomas Witherspoon, K4SWL, is the founder and executive director. Here is their mission statement, copied from their website. "At ETOW, we believe access to information is access to education. We provide innovative, simple and appropriate technologies to schools and communities in remote, rural and impoverished regions of our world."

This little flashlight makes use of the most commonly available battery in the world, the ubiquitous AA. Equally common are "dead" AA batteries. The Humanalight is an adaptation of the 'Joule Thief' circuit

with a pcb designed by David Cripe, NMØS. A typical AA battery discharged too far to be useful in any household item can provide up to two weeks of continuous operation in a Humanalight. A fresh alkaline battery can operate continuously for over five weeks!

ALL THROUGH HOLE parts make this kit very easy to assemble in approx. ½ to 1 hour. The price of this Build Session kit is \$10, and is selected and paid for during the registration process. This is a great fun activity for all, experienced builders or not, so plan to attend and enjoy AND you will get to carry home this nifty kit selection that you built. Pre-Registration is necessary as there is a limited number of the kits available for the building session.



Attendees will need to bring their own hand tools for the session.

- Soldering iron with a stand. A small tip on the iron is suggested. This could be a simple 25 watt iron with a bent coat hanger stand.
- Damp sponge to clean the soldering iron tip
- Rosin core solder – Kester “44” or similar. Note that we will have some spare solder available.
- Small wire cutters
- Needle nose pliers
- Magnifier and/or light
- Hi-lighter to mark off parts as they are installed
- Cookie sheet with upturned lip to catch stray parts, to reduce static discharge damage to components and to protect the table surface

More information about Ears To Our World, as well as the Humanlight, can be found here <http://www.earstoourworld.org/>

PROJECT #2



This year's second Build Session kit is an entry level CW transceiver for the 80 meter band, the Cricket. The Cricket is a minimalist 80M crystal controlled CW transceiver designed to be a simple, easy-to-build project, yet very functional. Favorably reviewed in the December 2017 QST, It is comprised of only 43 components, but maximizes features and performance of each of those components. It will take approximately 2 hour to build. The crystal included in the kit is a frequency usable by ALL license classes, Technician through Extra!

Specifications

- Voltage Input: 9v battery, clips mounted to board. The battery will be included!
- Receive Current: <20mA typical
- Transmit Power: 0.75w, typical
- Transmit Current: <80 mA
- Operating Frequency: 3.579 MHz, crystal included.
- Antenna Connector: BNC, on board
- MDS: -105 dBm, typical – good sensitivity.



Specifications (continued)

Audio jack: 1/8" Stereo
T/R Offset: 600 Hz, typical
Sidetone: Included!
Key: Included!
Toroids: None!
Wiring: None!

It bears a family resemblance to the well known but much lower performing Pixie. However it is very different and vastly improved over the Pixie. This was designed to be a usable rig and is far superior! It features low parts count, MOSFETs for better receiver sensitivity and switching, and a modern NJM2113D audio amp. A TX/RX offset is included so that you can work other stations that have zero beat you, or are using a crystal on the same frequency. Full QSK and a sidetone complete the essential operating features. Inductors made of etched spiral coils are included on the pc board, so there are NO TOROIDS to wind. Additionally a straight key is included on the pc board, just snap it off, mount it on the board, and the whole rig is then self contained. These are many features for such a low parts count, fun, and inexpensive transceiver.

ALL THROUGH HOLE parts make this kit very easy to assemble in approx. 2 hour. The price of this Build Session kit is \$20, and is selected and paid for during the registration process. This is a great fun activity for all, experienced builders or not, so plan to attend and enjoy AND you will get to carry home this nifty kit selection that you built. Pre-Registration is necessary as there is a limited number of the kits available for the building session.

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- Small wire cutters
- Needle nose pliers
- Magnifier and/or light
- Hi-lighter to mark off parts as they are installed
- Cookie sheet with upturned lip to catch stray parts, to reduce static discharge damage to components and to protect the table surface

For more information about this kit, see the kit web page at <http://www.4sgrp.com/cricket.php>.



PROJECT #3

Tape Measure Fox Hunt Antenna. The price of this Build Session kit is \$15.

If you have been interested in participating in a fox hunt but you don't have a directional antenna, we have the perfect opportunity for you! We will be supplying a complete kit and hands-on instruction for you to build your own [WB2HOL-design tape measure antenna](#), with some slight enhancements to the design.

These antennas have a really great front-to-back ratio with a very deep notch in the pattern toward the rear. It uses three steel "tape measure" elements that fold easily to allow you to quickly get in and out of your vehicle and yet remain stiff enough to be self-supporting when hunting for a hidden transmitter. Between hunts, the elements can be folded or rolled to reduce storage space. This antenna design has been in use for decades for [ARDF](#) and [transmitter or fox hunting](#), but also can be used to contact astronauts on the International Space Station, make satellite repeater contacts, extend your HT range to hit that repeater in the next county, sniff out local RFI noise, locate a stuck transmitter or jammer... the options are endless.



There are no special skills or tools needed to participate in the workshop, just the ability to follow instructions and an interest to have a good time. Each participant will get a complete kit with all the parts needed to build an antenna with a male BNC connector on the end of the coax.

Adapters for your HT or handheld scanner will be available for a small additional fee when registering. We will have all the tools and supplies available so you will leave the workshop with a tested and functioning antenna. During the workshop, we will provide some additional ideas for enhancements to make later if you so choose.

If you bring your HT or handheld scanner, there will be a fox hidden outside for you to practice finding.



Convention Fees

- Kids under 18: **FREE**
- Adults: \$10 (includes both days)
- Additional Raffle Tickets: \$2 each
- Indoor Flea Market Tables: \$15 You must contact N0YWB1@gmail.com to reserve space
- Outdoor Flea Market Tables: \$10/vehicle; Order on-line; 85 available
- Commercial Vendors: \$15/table (2 free admission tickets with 5 table purchase)
- Banquet: \$20 each
- On-site RV Camping with hook-ups: \$20/night; Order on-line; 45 available
- Off-site camping available: Pinicon Ridge Park (See Accomodations)
- Project Fees: Cricket Build \$20; Humanalight Build \$10; Tape Measure Yagi Ant. \$15

Flea Market

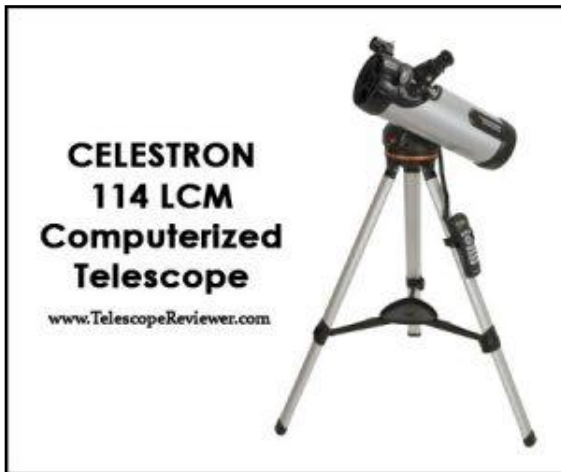
Indoor flea market tables are 8-ft long. Outside flea market spaces are 10 ft wide by 20 ft. deep. There are a number of RV spaces available in the flea market area additional \$10 fee

Prizes

This year's convention will be chock full of really cool prizes for Makers, Techies, and Hams of all ages:

- ICOM 7300 HF Transceiver
- Parrot Bebop 2 Drone
- Celestron 114LCM Telescope
- FlashForge 3-D Printer
- (2) TYT MD-380 UHF DMR HT's
- (2) Yaesu FT-65R Dual Band HT's
- Plus, numerous hourly door prizes





Prize Donors

- ARRL
- RADIO CITY INC
- D&L ANTENNA
- ARROW ANTENNA
- DX ENGINEERING
- ELECRAFT
- EASTERN IA DX ASSOCIATION
- HEIL SOUND
- HAM RADIO DELUXE
- MFJ ENTERPRISES

- NM0S ELECTRONICS
- N3FJP SOFTWARE
- NCG/COMET
- MAIN TRADING CO
- R and L ELECTRONICS
- RT SYSTEMS
- THE WIREMAN INC
- WEST MOUNTAIN RADIO
- TIGERTRONICS
- CEDAR VALLEY ARC



Convention Site Map

Linn County Fair Grounds (39 acres)



Additional Useful Information

Convention Site: Linn County Fair Grounds, Central City, Iowa
(Highway 13 and Central City Road)

Convention Site Geographic Coordinates:

Latitude: 42° 11' 43" N.

Longitude: 091° 31' 39" W.

Talk-in Station: W0GQ Repeater, 146.745 – (192.8 Hz) and 146.52 Simplex

Convention Web Site: <https://arrlmidwestconvention.org/>

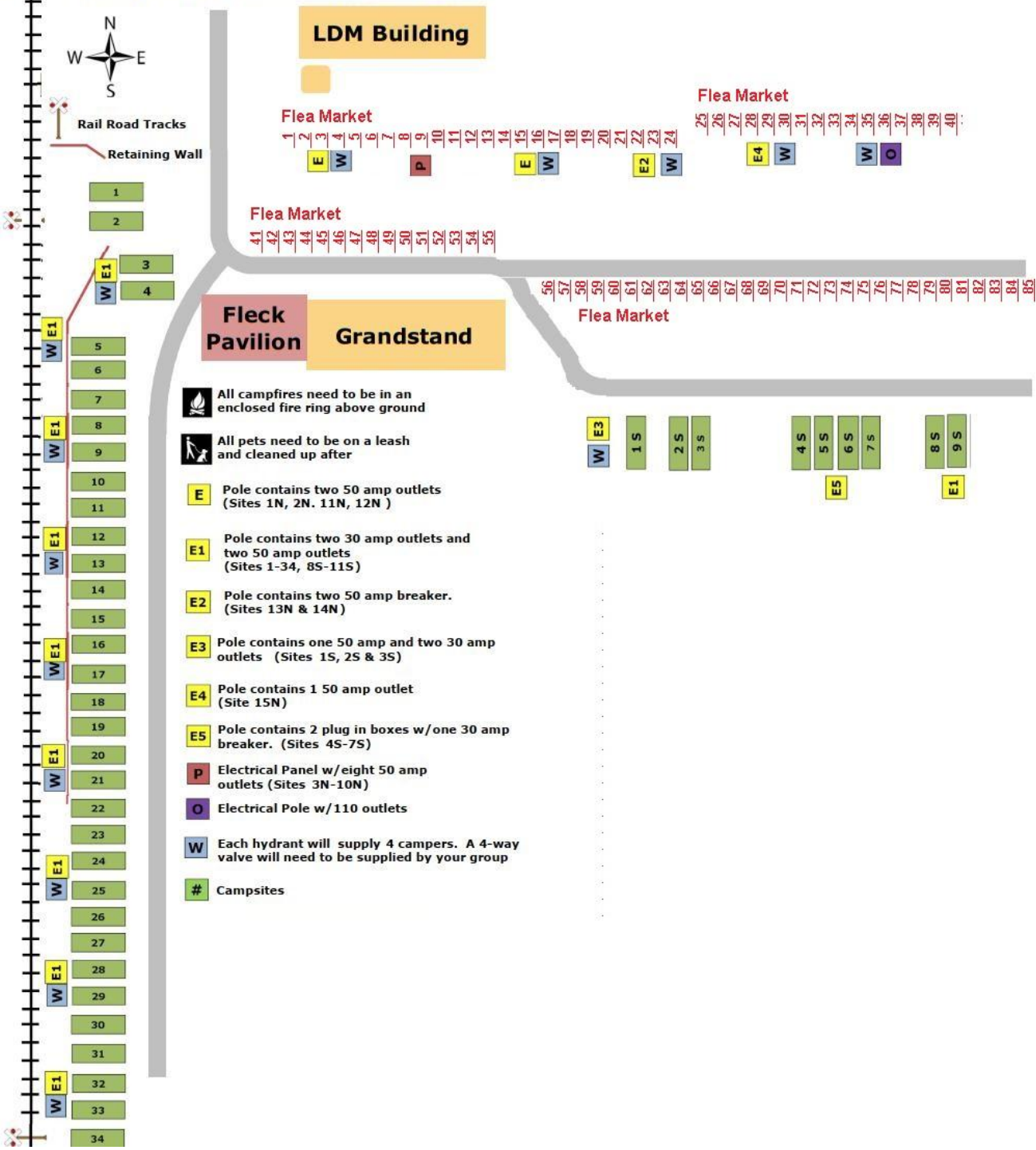
Cedar Valley ARC Web Site: <https://w0gq.org> (Note the call in the URL is W0GQ)

Collins Collectors Association Web Site: <http://www.collinsradio.org/>



Flea Market & RV Spaces Map

Linn County Fairgrounds Campsite Map



- All campfires need to be in an enclosed fire ring above ground
- All pets need to be on a leash and cleaned up after
- E** Pole contains two 50 amp outlets (Sites 1N, 2N, 11N, 12N)
- E1** Pole contains two 30 amp outlets and two 50 amp outlets (Sites 1-34, 8S-11S)
- E2** Pole contains two 50 amp breaker. (Sites 13N & 14N)
- E3** Pole contains one 50 amp and two 30 amp outlets (Sites 1S, 2S & 3S)
- E4** Pole contains 1 50 amp outlet (Site 15N)
- E5** Pole contains 2 plug in boxes w/one 30 amp breaker. (Sites 4S-7S)
- P** Electrical Panel w/eight 50 amp outlets (Sites 3N-10N)
- O** Electrical Pole w/110 outlets
- W** Each hydrant will supply 4 campers. A 4-way valve will need to be supplied by your group
- #** Campsites



Accommodations

On-Site RV Spots: A 20 foot wide by 40 foot deep RV and tent camping site is \$20 per night. Utility poles with four electric outlets and one shared water hydrant per 4 spaces (provide your own "Y" splitter) are within 40 feet of each space. Flea market sales from the RVs parked in the south lot (near the race track) is permitted for an additional Flea Market fee of \$10 for the weekend. Contact Bob Klaus n0ywb1@gmail.com 319-521-1134 if you have questions or special needs. There are 45 RV spaces available and can be ordered on-line.

Off-Site Camping: Tent or camper facilities are available at nearby (~2 miles) Pinicon Ridge Park.

<https://www.mycountyparks.com/county/linn/Park/Pinicon-Ridge-Park/Facilities.aspx>

Hotels: Below are listed several hotels in the area with June prices listed on Trip Advisor:

https://www.tripadvisor.com/Hotels-g37747-Central_City_Iowa-Hotels.html

[Microtel Inn & Suites by Wyndham](#)

[Marion/Cedar Rapids](#)

11.7 miles \$66 3 stars [377 reviews](#)

[Quality Inn North](#)

13.4 miles \$68 4 stars [71 reviews](#)

[Quality Inn at Collins Road](#)

13.7 miles \$64 3.5 stars [78 reviews](#)

[Mainstay Suites Cedar Rapids](#)

13.6 miles \$67 3.5 stars [46 reviews](#)

[Days Inn & Suites Cedar Rapids](#)

14.1 miles \$76 4 stars [462 reviews](#)

[Country Inn & Suites by Radisson](#)

14.5 miles \$86 3.5 stars [300 reviews](#)

[Red Roof Inn Cedar Rapids](#)

19.4 miles \$51 4 stars [192 reviews](#)

[Long Branch Hotel \(Best Western\)](#)

13.7 miles

[Super 8 Cedar Rapids](#)

19.5 miles \$51 4 stars [245 reviews](#)

[Rodeway Inn](#)

19.6 miles \$55 4 stars [68 reviews](#)

[Econo Lodge](#)

19.7 miles \$52 3.5 stars [53 reviews](#)

[Hometown Inn & Suites](#)

19.6 miles \$55 3.5 stars [44 reviews](#)

[Economy Inn & Suites Cedar Rapids](#)

19.5 miles \$58 3.5 stars [11 reviews](#)

[Baymont Inn & Suites Cedar Rapids](#)

19.7 miles \$59 3.5 stars [307 reviews](#)

[Quality Inn South](#)

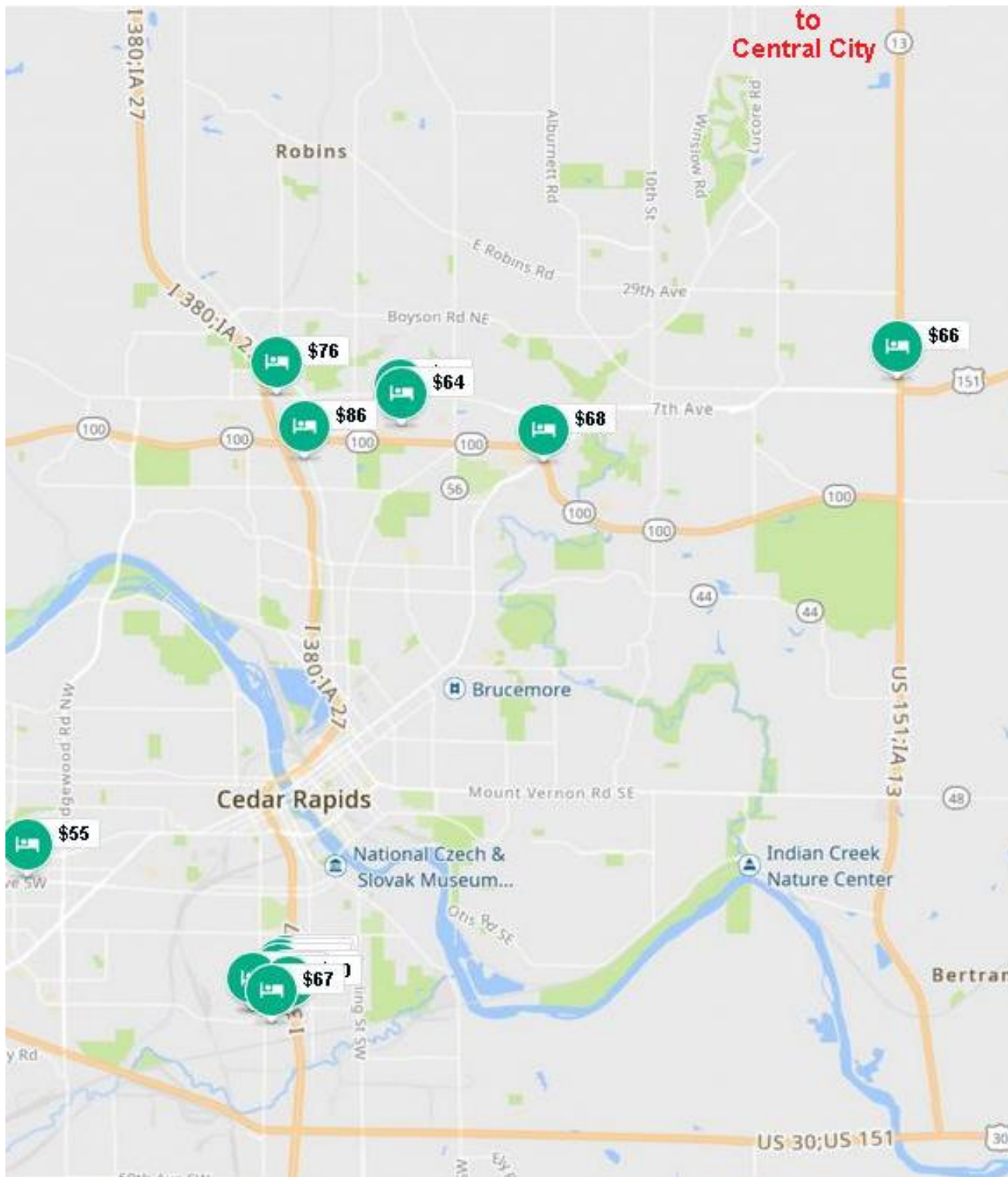
19.5 miles \$63 3.5 stars [68 reviews](#)

[Ramada Cedar Rapids](#)

19.7 miles \$67 3.5 stars [229 reviews](#)



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Convention Committee Members

These are the dedicated folks who make this event possible:

Convention Chairman: Tim Busch, N0CKR, n0ckr@arrl.net

Flea Market: Bob Klaus, N0YWB, n0ywb1@gmail.com

Prizes: Dave Wilson, KØRN, krk9840@msn.com

Ticket Sales: David Layher, WA0PCC, wa0pcc@arrl.net

VE Exam Manager: Darrel Peterson, WAØKHH, wa0khh@juno.com

Banquet Meal: Will Sondermann, NØAGL, sondo2121@gmail.com

W0CXX Classic Ham Station: Gregg Lind, KC0SKM, kc0skm@arrl.net

K0N Special Event Station: Dave Cripe, NM0S

Banquet Meal: Will Sondermann, NØAGL

ARRL: Rod Blocksome, KØDAS

Rockwell Collins ARC: Charley Snodgrass, KCØCD

ARES: Scott Haney, NØGUD

QCWA: Dale Svetanoff, WA9ENA

QRP: Dave Cripe, NMØS

Collins Collectors Association: Jim Jones, WØNKN

STEM Groups: Heidi Haney, KBØNRU

Outdoor Demos: Allen Butler, KAØIES

Banners: Scott Haney, NØGUD

Food: Linn County 4-H Clubs

Talk-in Station: Michael Root

Internet / Wifi: Nathan Couch, KEØDPG

Logo & T-shirts: Dave Cripe, NMØS

They look forward to meeting you at the ARRL Midwest Convention

ARRL Midwest Division Leadership



Director: Rod Blocksome K0DAS

k0das@arrl.org 319-393-8022

Vice Director: Art Zygielbaum K0AIZ

k0aiz@arrl.org 402-421-0839

Iowa Section Manager: Bob McCaffrey, K0CY

Kansas Section Manager: Ron Cowan, KB0DTI

Missouri Section Manager: Cecil Higgins, AC0HA

Nebraska Section Manager: Matt Anderson, KA0BOJ

DX Advisory Committee: John Yodis, K2VV (MO)

Emergency Communications Advisory Committee: Reynolds Davis, K0GND (NE)

Contest Advisory Committee: Glenn Johnson, W0GJ (IA)

Midwest Division Volunteer Counsel: Craig Long, K0CSL (IA)

Division Legislative Action Chair: Mike Edwards, WB9M (MO)

Legislative Action Coordinators: Nick Critelli, K0PCG (IA); Bruce Frahm, K0BJ (KS & NE); Mike Edwards, WB9M (MO).

Assistant Directors (Missouri): Paul Haefner K0JPL, Dave Propper K2DP, Kent Trimble K9ZTV, Roger Volk K0GOB, Cecil Higgins AC0HA, John Frederick N8GOU, Eric Zust W0TT, Randy Schulze KD0HKD, and Ron Lowrance, K4SX.

Assistant Directors (Kansas): Mike Albers K0FJ, Jim Andera K0NK, Bill Henderson K0VBU, Charlie Hett K0THN, Brian Short KC0BS, Richard Johnson K0RCJ, Rick Tucker W0RT, and Jon Jones N0JK.

Assistant Directors (Iowa): Tim Busch N0CKR, C.W. Pantel K0IIR, and Jim Spencer W0SR

Assistant Directors (Nebraska): Reynolds Davis K0GND, Joe Eisenberg K0NEB, Allen Harpham WD0DXD, and Todd LeMense KK0DX.

Midwest Division Webmaster: Steve Schmitz W0SJS email: w0sjs@arrl.net

Midwest Division's website: <http://www.arrlmidwest.org/>