



Key Klicks

The Monthly Publication of the Green Mountain Wireless Society
An ARRL Special Service Club

Field Day 2016 Announced

Save the date!

Field Day is always the fourth full weekend of June, beginning at 1800 UTC Saturday and running through 2059 UTC Sunday. Field Day 2016 is June 25-26.

The objective of Field Day

To work as many stations as possible on any and all amateur bands (excluding the 60, 30, 17, and 12-meter bands) 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.

What GMWS Generally does

In the past we have set up in the press box at the Rutland High School Alumni Field. We operated 4 stations as well as a GOTA station last year. We will most likely do something similar this year. Stay tuned for more details at upcoming meetings and KKs.

More details can be found: <http://www.arrl.org/field-day>

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Pictures from GMWS FD 2015

K5UR Elected ARRL's 16th President

the action as it convened for its 2016 Annual Meeting January 15-16 in Windsor, Connecticut. Roderick, 63, officially assumed office for a 2 year term at the conclusion of the Annual Meeting. He is the ARRL's 16th president, succeeding Kay Craigie, N3KN, of Blacksburg, Virginia, who served for three terms as the League's president.

The Board also chose other officers, electing Dakota Division Director Greg Widin, K0GW, of Stillwater, Minnesota, as First Vice President, succeeding Roderick, and Rocky Mountain Division Director Brian Mileschosky, N5ZGT, of Albuquerque, New Mexico, as Vice President, succeeding Jim Fenstermaker, K9JF. Roderick, Widin, and Mileschosky all are ARRL Life Members. Fenstermaker was later named by the Board as an ARRL Honorary Vice President.

As a result of the Vice President election, Rocky Mountain Division Vice Director Dwayne Allen, WY7FD, of Sundance, Wyoming, will become the new Division Director, succeeding Mileschosky, while Kent Olson, KA0LDG, of Horace, North Dakota, will become the new Dakota Division Director. President Roderick will fill the Vice Director vacancies in due course.

In other action, the Board re-elected International Affairs Vice President Jay Bellows, K0QB, and ARRL Chief Technology Officer Brennan Price, N4QX.

The Board also elected one new member to the Executive Committee, which can act on the behalf of the Board between its two yearly meetings in January and July. Delta Division David Norris, K5UZ, will replace New England Division Director Tom Frenaye, K1KI, on the panel.

The other Board members are Hudson Division Director Mike Lisenco, N2YBB; West Gulf Division Director Dr David Woolweaver, K5RAV; Pacific Division Director Bob Vallio, W6RGG, and Great Lakes Division Director Dale Williams, WA8EFK.

ARRL Chief Operating Officer Harold Kramer, WJ1B, also was attending his final meeting in an official capacity. Kramer retires on March 1 after about 10 years at ARRL Headquarters.

Satellite Package Carrying Amateur Radio Payloads Released into Orbit from ISS

A package of two satellites carrying Amateur Radio payloads has been deployed into orbit from the International Space Station (ISS) as part of a collaborative Texas A&M and

University of Texas at Austin research effort. Built by Texas A&M students, AggieSat4 (AGS4) will release UT's Bevo-2 CubeSat in about a month, once it is far enough away from the ISS. Both schools received support from NASA's Johnson Spaceflight Center (JSC) for the design, construction, testing, and launch phases. The goal of the overarching LONESTAR (Low Earth Orbiting Navigation Experiment for Spacecraft Testing Autonomous Rendezvous and Docking) program is for the two satellites to individually rendezvous with each other and perform docking and undocking maneuvers.

"The overall objective is to find ways for small spacecraft to join together autonomously in space," Helen Reed, KD7GPX, professor of aerospace engineering and director of the AggieSat Lab at Texas A&M told NASA. "We need simple systems that will allow rendezvous and docking with little to no help from a human, which will become especially important as we venture farther out into space. Applications could include in-space assembly or reconfiguration of larger structures or systems as well as servicing and repair."

The AggieSat team received its first beacon signal from the satellite at its Texas A&M Riverside Campus ground station. The AggieSat4 team is asking any Amateur Radio operators receiving the beacon signal to send any data to the AGS4 team. AggieSat4 will transmit 9.6 kbps FSK telemetry and 153.6 kbps FSK on 436.250 MHz. Once it's placed into its own orbit, Bevo-2 will transmit on 437.325 on CW and 38.4 kbps FSK.

Both satellites were launched to the space station during a December 6, 2015, resupply mission. Earlier last week, Astronauts Tim Peake, KG5BVI, and Scott Kelly made preparations to deploy the sizeable LONESTAR phase 2 mission satellite package from the ISS, using the SSIKLOPS deployer. The satellite mission also will demonstrate communication cross links, data exchange, GPS-based navigation, and other tasks. AggieSat4 will capture images of the Bevo-2 release.

The satellites were independently developed by student teams at the two universities. Both teams were responsible for development plans for their satellite and had to meet established mission objectives.

The Bevo-2 Satellite was designed, built, and tested in the Texas Spacecraft Lab (TSL) at the University of Texas at Austin. "This whole experience is very exciting," TSL Director Glenn Lightsey, KE5DDG, said last fall as undergraduate and graduate students were in the final stages of their project. "It's great to have a research program where our students can build satellites that fly in space." Reed and Lightsey are co-investigators for the LONESTAR 2 project.



Prez Sez

Our Technician License Class is off to a great start with excellent attendance. Drop in and say hello on Wednesday evenings from 6:30 - 8:15 at the Red Cross Building.

We are still in need of a permanent home for our meetings and our Emergency Operations Center station. Please email ideas as they come to you.



We expect to participate in the Amateur Radio National Parks on the Air Event at the Marsh-Billings-Rockefeller National Historical Park in Woodstock. The event celebrates the 100th anniversary of the National Park Service. More information to come at our meeting and by email. Here is an ARRL link to check out: <http://www.arrl.org/NPOTA>

This is exciting! Christ the King school in conjunction with our club, and with schedule arrangements in place, will attempt to be in contact with the International Space Station in the near future. Details at the meeting.



That's it for now.

73 and good DX
Tim - WA1VT



February & March, 2016 GMWS ARES Net Control Schedule



The GMWS ARES Net is held **Monday** evenings starting at **7:30 PM** on the **147.045** repeater (Negative offset 100Hz PL). Please check the schedule to see if a given net is for training, or "rag chew." Note you can also find the *complete* ARES Net Control Schedule on the GMWS web site at www.gmws.net, use the ARES link in the "Upcoming Events and Amateur News" section of the home page. **It is possible that the schedule will change, so check the web site often for updates.**

Feb 1 st	Steve	W1SFR	Rag Chew
Feb 8 th	Sam	W1IBR	Training
Feb 15 th	Ann Mary	AB1CH	Rag Chew
Feb 22 nd	Steve	W1SFR	Training
Feb 29 th	Ann Mary	AB1CH	Rag Chew
Mar 7 th	Ann Mary	AB1CH	Rag Chew
Mar 14 th	Steve	W1SFR	Training
Mar 21 st	Sam	W1IBR	Rag Chew
Mar 28 th	Ann Mary	AB1CH	Training

There is always a need for extra NC Stations. Training is available as well as a pre printed Net Pre-Amble. It can be arranged for an experienced operator to help or monitor your first net if you would like. As with a Chain clubs are only as strong as the weakest link.

Secretary Report

Regular Meeting Jan 12, 2016



Meeting called to order at 19:07 with 10 members and 1 Guest present.

- Pledge of allegiance and introductions around the room
- Motion to approve minuets as printed in Key Clicks. Moved and seconded, Approved.
 - Secretary Report Caid W1CX: No report
 - Treasurer Report Forest N1BBQ: We are solvent
 - Vice President Report Sam W1IBR: No report (absent)
 - President Report Tim WA1VT: Report under old business
- EOC: St Joseph's isn't looking good. A letter was sent to the president and Tim WA1VT placed a phone call to the president and it was not returned. RFD is also a no-go. Castleton University is still a possibility Frank W1AD is going to talk to Mr. Chioffi about meeting at the Rutland Town Fire House. Tim will also call the CAP representative and see about using their space. Stafford Tech is still under consideration for class room space.
- The Red Cross is making steps towards shutting down the building. The IT people will be in around the 31st of January to pull all the equipment. And they would like us to remove all our belongings from the room in which we have them stored. Rich WB2RUM said we could store stuff above his woodshed and Bob KD1YC says we could store things in the loft of his barn also but warned there is critters and it's not heated. Tim WA1VT will look into other storage avenues as well.
- Tom W1TP has offered to do another presentation with the date to be announced later.
- The technician class is in progress we have 6 students now and we expect a few more to join in the next class. We had good publicity with a detailed article in the Rutland Herald, the Mountain
- Times and Sam's Good News.
- The DVD's from Tom W1TP's presentation were being burned by Forrest N1BBQ but the last 20 mins were corrupt. He will get a new copy from PEG TV and continue.
- The MRC (medical reserve corps) meeting up and coming group taking over CERT. The folks are looking to get involved in ham radio. Maybe get GMWS to talk to them? Or 1 or 2 people give a presentation at a future meeting.
- Meeting adjourned at 19:51.

Respectfully submitted by GMWS secretary, Caid W1CX

Q: How many DXers does it take to change a light bulb?

A: All of them. One to change it and the rest to argue about whether it counts as a light bulb.
-- Ward N0AX

ANTENNA ROMANCE ... From The Internet

Two antennas met on a roof, fell in love and got married.

The ceremony wasn't much, but the reception was excellent.

Since they were a perfect match, soon they generated harmonics.

Wrapped the harmonics in dipoles.

But later the harmonics turned out to be parasitic elements.

The true story -- she was a tri-bander and he felt trapped, so they went on separate beam headings

Contest Corner caid, W1CX

Hello testers!!! Another crazy month for contests!!! There is only one day in February with no contest and something for everyone this month from 30 minuet sprints to weekend QSO parties and speaking of QSO parties our very own Vermont party is this February!!! Again this month I will hit the popular ones and provide the link for a full list of dates:

<http://www.hornucopia.com/contestcal/contestcal.html>

- **YLR L YL-OM Contest** 1400Z Feb 5 to 0200Z Feb 7
<http://ylrl.org/index.php/contests-and-dx-awards>
- **Vermont QSO Party** 0000Z Feb 6 to 2400Z Feb 7
<http://www.ranv.org/vtqso.html>
- **10-10 Int. Winter Contest SSB** 0001Z Feb 6 to 2359Z Feb 7
<http://www.ten-ten.org/index.php/activity/2013-07-22-20-26-48/qso-party-rules>
- **Minnesota QSO Party** 1400Z to 2400Z Feb 6
<http://www.w0aa.org/docs/mnqp/MNQP%20Contest%20Rules.pdf>
- **ARRL School Club Roundup** 1300Z Feb 8 to 2359Z Feb 12
<http://www.arrl.org/school-club-roundup>
- **OMISS QSO Party** 1500Z Feb 13 to 1500Z Feb 14
<http://www.omiss.net/Facelift/qsoparty.php>
- **New Hampshire QSO Party** 1600Z Feb 13 to 0400Z Feb 14 and 1200Z to 2200Z Feb 14
http://www.w1wqm.org/nhqso/NEW_HAMPSHIRE_QSO_PARTY_RULES.pdf
- **ARRL Inter. DX Contest CW** 0000Z Feb 20 to 2400Z Feb 21
<http://www.arrl.org/arrl-dx>
- **South Carolina QSO Party** 1400Z Feb 27 to 0059Z Feb 28
<http://scqso.com/rules/>
- **North American QSO Party RTTY** 1800Z Feb 27 to 0559Z Feb 28
<http://www.ncjweb.com/NAQP-Rules.pdf>
- **North Carolina QSO Party** 1500Z Feb 28 to 0059Z Feb 29
<http://rars.org/ncqsoparty/index.php?id=rules>



Quiz Time!

- 1: When radio amateurs are trying to solicit a new contact, what two-letter phrase do they use?
A: CX B: CQ C: WX D: DE
- 2: In amateur radio parlance, what does the two-letter phrase "DX" stand for?
A: destination B: disconnection C: dial D: distance
- 3: When radio amateurs discuss a "Yagi", what are they talking about?
A: cable B: radio C: antenna D: tower
- 4: What do radio amateurs mean by a "silent key"?
A: an amplifier without a fan B: a non-functioning radio C: deceased radio amateur D: a small radio accessory
- 5: Operating your radio "barefoot" means to operate it...?
A: without an amplifier B: with the volume turned down C: with a small antenna D: in your pajamas
- 6: What organization is the ultimate authority for radio amateurs in the United States?
A: FBI B: ARRL C: FCC D: DOT
- 7: What does "73" mean in radio lingo?
A: Hugs and kisses B: Best regards C: Good luck D: Goodbye
- 8: What is a "radio contest"?
A: a party B: a raffle C: an operating event D: a disagreement
- 9: What is a "lid" in ham radio lingo?
A: a kind of book B: a loud signal C: a poor operator D: an unlicensed operator
- 10 Which best matches what the term "QSL" means in ham radio talk?
A: a card confirming a contact B: to operate with an amplifier C: your location D: a two-way contact

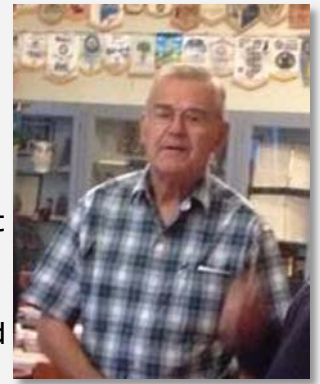
Answers:

1: A 2: D 3: C 4: C 5: A 6: C 7: B 8: C 9: C 10: A



Ten Years Ago At GMWS

In 2006 the ARRL had the New England Cabinet Meeting at Springfield, Massachusetts. This is a forum that precedes the Board meeting. The removal of the Morse code (CW) requirement from FCC licensing was imminent. ARRL noted that the increase in new hams had slowed from 100 to about 60 per month in New England. Efforts were afoot to provide different approaches to learning the basic information needed for FCC licensing and publicizing the importance of amateur



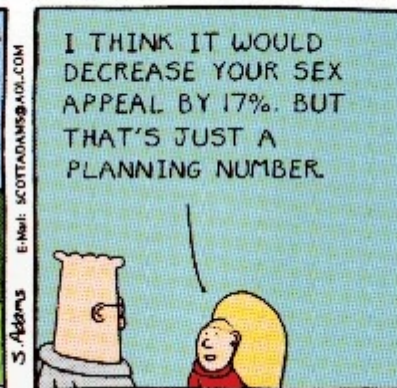
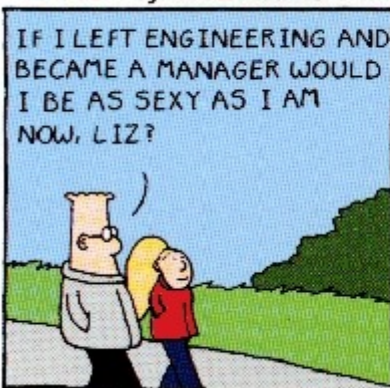
Prez Deb Clark NN1C-now SK noted the 25th anniversary special event station from our well-equipped EOC up in the Red Cross building. Other contest events operated from there as well during the year.

The Boston Marathon organizers were seeking ham volunteers for the 2006 event.

In 2006 CERT (Community Emergency Response Team) was two years old. At a Boy Scout camporee in Plymouth there was a nice V-front CERT trailer there. Inside were the needed components for setting up an HF station and a nice operating position. It was like a complete Field Day setup on wheels. The lettering about CERT on the side was mobile publicity.

Compiled by Jeff Freeman N1YTY

DILBERT® by Scott Adams



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Ham Fests & Swap Meets caid, W1CX



Warminster Amateur Radio Club, Auction & Meeting

February 4th

Warminster, PA

Benjamin Wilson Senior Center, 580 Delmont Ave, Warminster, PA

Opens: 7:30 - 9:30 pm (includes WARC club meeting; visitors welcome)

Contact club for auction rules; all proceeds go to WARC unless submitted by prior arrangement

<http://www.k3dn.org>

Gloucester City Amateur Radio Club

February 14th

Gloucester City, NJ

Brooklawn American Legion Hall, 11 Railroad Lane, Brooklawn, NJ; US 130, west on Browning Rd, right on Railroad Lane Gloucester City Amateur Radio Club (NJ2GC), c/o G.C. Fire

Headquarters, 1 N. King Street, Gloucester City, NJ 08030

Opens: 7 am to 3 pm; Vendors 6 am Cost: \$5, vendors \$8/table

<http://nj2gc.org>

New Providence Amateur Radio Club (NPARC)

Date not set yet, Check web link for details on date and time

New Providence, NJ

Auction and Indoor Flea market New Providence High School, 35 Pioneer Drive, New Providence, NJ NPARC, PO Box 813, New Providence, NJ 07974

Contact: Barry Cohen, K2JV, 19 Cromwell Court Berkeley Heights, NJ 07922 908-464-1730 Talk-

In: 147.255+ (PL 141.3) W2LI Repeater or 145.750 simplex E-mail: k2jv@arrl.net

Opens: Sellers 6:00 pm; Buyers 6:30 pm; Auction begins 7 pm (about 2 hours); Flea market after auction (30 min) Cost: \$5 Bidders/Sellers; Kids and ULS free Auction: NO COMMISSION; post-auction Flea market: limited free table space is "first come, first taken"

<http://www.nparc.org>

Algonquin Amateur Radio Club

February 13th

Marlborough, MA

The Algonquin Amateur Radio Club will hold its Amateur Radio Flea Market Saturday, February 13 at Marlborough 1Lt. Charles W. Whitcomb School. Contact: Tim Ikeda, KA10S, (508) 919-6136 (before 9 p.m.). Email: <fleamarket@n1em.org>. Talk-in 147.27+ (PL 146.2). VE exams.

The Vermont Ham Radio Convention

February 27th

South Burlington, Vermont

Holiday Inn Convention Center

Williston Road at I-89 Exit 14

<http://www.ranv.org/hamcon.html>

Fun Ham Fact!

FEMA keeps a reserve of 3.6 lbs of canned ham for ever American. ... Wait Wrong Ham!



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Stuff For Sale

W1SFR, Steve w1sfr.qrp@gmail.com

K1CRA 21' extendable aluminum mast online price \$129.95 and Penninger Commercial Duty Tripod for above. Online Price \$139.95 [https://www.k1cra.com/ProductDetails.asp?](https://www.k1cra.com/ProductDetails.asp?ProductCode=MAST21B)

ProductCode=MAST21B Near new condition. Includes two shot bag weights.

Call Steve at 802-779-7489

Want to see your name in print? Got stuff to sell or give away? Also seeking ideas for story leads or product reviews, I need input as to what you do or do not like. Send listings before 25th of the month to

Ann Mary AB1CH@nfmra.org

Thanks to this months contributors:

Tim WA1VT, Caid W1CX, Jeff N1YTY, Frank W1AD, Steve W1SFR, Paul AA1SU, Ann Mary AB1CH

Edited by Forest N1BBQ

Mark Your Calendar!

Upcoming Nets

Every Monday

GMWS / ARES	147.045 Repeater	7:30 pm
GMWS / W1AD	28.333 Mhz Bands	8:00 pm
10 Meter Net	Permitting	

Daily

VT Phone Traffic Net	3857 Khz	7:30 pm
VT & NH Traffic Net	3539 Khz	7:00 pm
New England Phone Net	3955 Khz	6:30 am

Every Sunday

VT Phone Emergency Net	3976 Khz	8:00 am
ACARA Roundtable	147.36 Repeater	8:00 pm

Upcoming VE Sessions

Burlington Area VE, Ralph KD1R 802-878-6454

GMWS March 16 @ Class Meeting Location

Next GMWS Meeting

February 9th Hopefully at the Red Cross Building



Green Mtn Wireless Society

PO BOX 84

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