



# THE OHM TOWN NEWS

*Voice of the Bridgerland Amateur Radio Club*



>>>>>>> <http://www.barconline.org> <<<<<<<<

## December 2016

**Merry Christmas**

**Happy New Year**

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## PRESIDENT'S MESSAGE

This past year had been filled with successful club events and activities, including many interesting and informative programs presented at the club meetings. I want to thank all of you for your help and participation throughout the past year; we couldn't have done it without you. It has been a fun and exciting time, and all in all I have enjoyed every minute. Remember - the Bridgerland Amateur Radio Club is only as good as you, our members, make it.



Please remember that this club is for you. Let any of the officers or board members know of topics, activities, or anything that would be of interest to you and others. Amateur radio offers many activities that an individual can pursue, learn, and have fun with. There is: talking with friends within the local area on a hand-held (HT) or a mobile in your vehicle, DXing worldwide on the HF bands to a distant country, assisting with emergency and disaster communications, technical experimenting from a simple antenna to something complex as a transmitter or an interface between their radio and a computer, contesting to see who can make the most contacts in a limited period of time, talking to the space station with your HT and a hand held beam antenna, using Orbiting Satellites Carrying Amateur Radio (OCSAR) to experience satellite tracking and participate in radio propagation experiments, experimental work such as meteor scatter and earth-moon-earth communications, and digital communications from pactor, Winlink, PSK-31, to D-Star. And there is still more that I have not listed. There is something for everyone. Ham radio provides the broadest and most powerful wireless communication capability available to any private citizen anywhere in the world.

And for me, it is fascinating to explore the different aspects of amateur radio and I enjoy my time with the hobby.

Thanks again to everyone for your support of our club and the activities we have. Our club has the most outstanding members and participation in amateur radio in the area.

Have a safe December and Happy Holidays.

73,  
Cordell  
KE7IK



# UPCOMING 2016 ACTIVITIES

- 8** Dec, 6:30 PM — **BARC Christmas Party/Club Meeting @** The Bluebird  
Menu: Prime Rib, Chicken Cordon Bleu. For more info see below or [here](#)  
Jared Smith will also talk about his T2R DXexpedition.
- 14** Dec, 7:30 PM - **ARRL Rocky Mountain Division Net** 147.200/IRLP Node:9871
- 15** Dec, 8:00 PM - **RACES VHF Net** 146.72 Mt. Logan 147.180 Snowbird 147.20 IRLP
- 20** Dec, 6:30-8:30—**Elmer Night @** Cache County Sheriff's Office 3rd Floor
- 21** Dec, 7:00 PM — Cache County **ARES meeting** at the Sheriff's Office



## Merry Christmas

(Check out HamRadioNow for [A Ham's Night Before Christmas](#), & [Text](#). See HamRadioNow episode 283 for the background for it, [check here](#))

# UPCOMING 2017 ACTIVITIES



- 11** Jan, 7:30 PM - **ARRL Rocky Mountain Division Net** 147.200/IRLP Node:9871
- 14** Jan, 10:00 AM - **BARC Club Mtg** — VHF/UHF antennas you can build
- 17** Jan, 6:30-8:30—**Elmer Night @** Cache County Sheriff's Office 3rd Floor

For more calendar information see the [barconline.org/calendar](http://barconline.org/calendar)

## The BARC Club Christmas Party

The December BARC club meeting and Christmas Dinner will be Thursday December 8th at the Bluebird restaurant in Logan. The dinner will be Prime Rib and Chicken Cordon Bleu, Au-gratin Potatoes, Salads, Rolls, and Turtle Cake. The cost is \$17 per person. The doors will open at 6 pm and the dinner will be served at 6:30 pm. There will be the usual drawing for goodies, prizes and gifts. You should have already sent an E-mail to Tammy Stevens or paid online.



## November BARC Club Meeting Election Results

At the November club meeting the elections were held for the 2017 Officers and Board Members for the BARC club. Nominations were allowed from the floor. The election was taken by secret ballot. For the offices of President, Vice President, Secretary and Treasurer, the current officers were re-elected. The results of the elections are:

<b>President:</b>	<b>Cordell Smart</b>	<b>KE7IK</b>
<b>Vice President:</b>	<b>Ted McArthur</b>	<b>AC7II</b>
<b>Secretary:</b>	<b>Tammy Stevens</b>	<b>N7YTO</b>
<b>Treasurer:</b>	<b>Kevin Reeve</b>	<b>N7RXE</b>
<b>Board Members:</b>	<b>Tyler Griffiths</b>	<b>N7UWX</b>
	<b>Mitch Smith</b>	<b>N7USU</b>
	<b>Richard Elwood</b>	<b>KE7GYD</b>
	<b>Chris Clement</b>	<b>K7CTC</b>



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## Bridgerland Amateur Radio Club One Day Technician Class & Tests Given

On Saturday, October 22, 2016 members of the Bridgerland Amateur Radio Club taught a one day Technician License class. A test session followed the class. Here are the results of the exams given at this session.

### The following individuals earned a Technician License:

Rachit Bhatia – KI7IAY	Teresa Hard – KI7IAR	Ryan Smith – KI7IBE
Sarah Brenkman – KI7IBI	Guy Keller – KI7IAS	Camron Stevenson – KI7IBA
Mason Campbell – KI7IAP	Jason Nelson – KI7IBB	Erik Swensen – KI7IAV
Morgan Chesley – KI7IAQ	Jeena Nilson – KI7IBJ	Richard Swensen – KI7IAU
Drew Clements – KI7IBF	Chantry Olsen – KI7IAT	Leif Walde – KI7IAO
Robert Conk – KI7IAN	Eric Palmer – KI7IAX	Garrett Ward – KI7IBH
Joshua Fenton – LI7IAW	Mindy Robins – KI7IBD	Nathan Ward – KI7IBG
Robert Hansen – KI7IAZ	Stephen Robins – KI7IBC	

### The following upgraded to a General License:

Carruthers Hays – KI7HNP

Here is a summary of the number of exams given and new licenses earned at this session:

Technician License Exams Given:	29	New Technician Licenses Earned:	23
General License Exams Given:	20	New General Licenses Earned:	1
Extra License Exams Given:	0	New Extra Licenses Earned:	0
Total Number of Exams Given:	49	Number of New Licenses Earned:	24
Number of People Served:	30		

Welcome to the Bridgerland Amateur Radio Club to all those that earned their first Amateur Radio license on October 22<sup>nd</sup>, and congratulations to all that earned a General or Extra license.

A big thank you to all the VEs and other club members that helped with each of these exam sessions.

Richard Elwood  
KE7GYD  
VE Liaison



## Urgent Action Needed: Utah Solar in Jeopardy



### A Letter from our CEO: RMP's Rate Proposal

As many of you know, Rocky Mountain Power (RMP) has submitted a proposed rate increase to the Utah Public Service Commission (PSC) that has until December 9th to either be Accepted, Rejected, or Suspended. This rate increase would impose a 3-tiered rate system on solar customers only that would double or triple the payback period for a solar investment. This rate increase is the most anti-solar and anti-business rate proposal to date across the nation. If accepted, it very well could destroy the solar industry overnight.

This rate proposal by RMP was carefully timed to leave the least amount of time for public comment or for anyone but RMP to be able to provide research or analysis for consideration. They have also carefully chosen the week of the Thanksgiving holiday for the deadline for public comment to discourage participation.

We have learned that today is deadline for public comment, so we are asking for immediate action. We urge you to take a moment to email the Public Service Commission, the Governor's office, the Office of Consumer Affairs, and the Department of Public Utilities and ask for this proposal to be rejected. **The most important action you can take today would be to email the Public Service Commission at [psc@utah.gov](mailto:psc@utah.gov).**

The contact information is below. It is important that you include the applicable docket number in the subject line of your emails. We would also encourage you to "speak the language" of the PSC and the various government offices that will receive your email. While the quality of our air and other environmental considerations are at stake here, we would urge you to talk primary about the loss of a freedom to choose how you power your home and the financial and business repercussions that accepting this proposal would have. Speak from your heart and what is important to you though. We would just encourage you to make the business case for what this would do to the solar industry, what it does as far as consumer choice, and what is an overreach by a government regulated monopoly.



*(Continued on page 6)*

There is one other item of note that we would like to relay, as it relates to the grandfathering of current solar customers. This is solely the opinion of Intermountain Wind and Solar and is pure conjecture at this early stage, but we believe we have an obligation to convey our thoughts. RMP has publicly stated that their proposed rates will only affect new solar customers and that all current solar customers will be grandfathered in and retain their current rate and net metering arrangements. We do not believe that anyone or anything is safe at this point and that current net metering customers to be concerned about this proposal.

There is not a precedent for a long-term grandfathering arrangement within a public utility. In Nevada, they have given current solar customers 12 years to participate in net metering to recoup their investment, after which they will subject to the new rates. It is entirely within the realm of possibility that RMP will publicly ask for a grandfathering clause knowing that the PSC may not grant it, since they do not have a precedent to work from.

The information that follows has been provided courtesy of the Utah Solar Energy Association to help you construct your emails.

Thank you for your time and consideration,

Doug Shipley  
CEO  
Intermountain Wind & Solar



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### **Email to the Public Service Commission to Save Solar**

Rocky Mountain Power (RMP) has filed an anti-solar special request with the Public Service Commission (PSC). RMP wants permission to change the rooftop solar rate structure, effective next month, without having to go through the normal rate-setting process.

The PSC has opened a docket for RMP's request and will take public comments until November 22, 2016. This quick deadline is unreasonable and should be extended.

It's very important for pro-solar Utahns to quickly file comments to let PSC Commissioners know that what RMP wants to do is unacceptable. If approved, RMP's rate increases will effectively eliminate future investments in rooftop solar and significantly harm Utah's rapidly growing solar industry and eliminate consumer choice in energy production.

Public comments can be simple or elaborate and they are important.

Below is the basic comment format:

- Address your comment email to: [psc@utah.gov](mailto:psc@utah.gov)

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- **Subject line:** Docket #16-035-T14 Public Comment
- **Greeting:** Dear Commissioners,
- **Paragraph #1:** State your opposition to PacifiCorp-RMP's "Advice No. 16-13", filed Nov. 9, 2016, that would change the rate structure for rooftop solar customers. In particular, urge the Public Service Commission to suspend the tariff and not let it take effect December 9th as Rocky Mountain Power has proposed and require it to use the normal rate-making process for its proposed changes.
- **Paragraph #2 (optional):** Summarize the key reasons why you feel RMP should not be allowed to unreasonably raise the costs for new rooftop solar customers, restrict free trade, and limit access to clean & efficient energy. Consider expressing how such changes would personally impact you. Also, feel free to include that you have read articles and studies from other regions where they have found rooftop solar to have value to the power system and grid.
- **Last paragraph:** Thank the Commissioners for accepting public input, though the deadline should be extended. Respectfully request the PSC, in the interests of ratepayers and the Utah public, to reject PacifiCorp-RMP's current rate change request.
- **Your personal information:** Full name ... City and State ... Email address

### Call the Governor's Office

Phone: [801-538-1000](tel:801-538-1000)

Respectfully ask the governor to help save solar in Utah. Solar is important to our economy, air quality, free market, and energy independence. It is important for the Public Service Commission to look at the benefits of rooftop solar and not just the costs, as has been done in many other states.

### Contact your Legislator

Use the same message above and that you are concerned that a monopoly utility can potentially make such extreme changes without proper vetting and analysis. Changes might be needed to our current rates but this is unfair and a more robust conversation should take place to best determine the benefits of rooftop solar.

Find your legislator here <http://le.utah.gov/GIS/findDistrict.jsp>



# The ARRL Letter for November 17, 2016

## Hamvention® Countdown: With 6 Months to Go, Plans Proceed Apace at New Venue



With just 6 months to go until [Hamvention®](#) debuts at its new [Greene County Fairgrounds and Event Center](#) venue in Xenia, Ohio, May 19-21, General Chair Ron Cramer, KD8ENJ, and Dayton Amateur Radio Association (DARA) Board Member Mike Kalter, W8CI, assure that all is progressing smoothly. Cramer and Kalter made another appearance this week on [Amateur Radio Roundtable](#), hosted by Tom Medlin, W5KUB, to update progress on preparations for the all-new Hamvention. Cramer and Kalter said they continue to be bombarded with questions, concerns, and rumors regarding how the event will be staged.



An aerial view of the Greene County Fairgrounds and Event Center in Xenia, Ohio, the new Hamvention venue. [Photo courtesy of DX Engineering and Greg Ordy, W8WWV]

"You have to remember, we're starting from the ground up," Cramer said. "So it's taken a while to get things going." He asked for patience from prospective visitors, but he and Kalter told Medlin that the vast all-volunteer team has everything well in hand, and that plans are coming together. Both maintained that those attending Hamvention 2017 "will be very impressed."

Cramer predicted parking would not be an issue, and that there would be plenty of room for the anticipated number of vehicles, with overflow parking available and transportation to the buildings housing the vendors and events from the parking areas, as needed.

Traffic and transportation logistics are being addressed, Cramer said, and Hamvention is working with four police departments as well as a professional traffic planner to ensure that all goes smoothly.

Cramer said Hamvention 2017 tickets will become available starting in December -- a bit earlier than in past years. The cost of admission will rise by \$2 from the 2016 price of \$20 for advanced tickets, and \$25 for those purchased at the gate. But, he pointed out, there will be no parking charges on site.



The Hamvention website is yet to be updated to reflect the 2017 event, but Cramer and Kalter said that both indoor and outdoor layout maps will be made available online in advance of the show, and these will be included in the Hamvention program as well.

Hamvention announced in August that it would be relocating to Xenia, following the closure of Hara Arena, where the show took place for more than 50 years.

The *Amateur Radio Roundtable* show included a DX Engineering-produced [video](#) taken from a drone operated by Greg Ordy, W8WWV, and narrated by DX Engineering's Tim Duffy, K3LR. Read [more](#).



Hamvention Chair Ron Cramer, KD8ENJ (left), and DARA Board member Mike Kalter, W8CI, on *Amateur Radio Roundtable*. [Photo courtesy of *Amateur Radio Roundtable*]

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# The ARRL Letter for December 1, 2016

## ARRL Issues Urgent Last Call to Press for Senate Passage of Amateur Radio Parity Act



It's now down to the wire: ARRL has issued a last call for members to urge their US Senators to support the Amateur Radio Parity Act ([H.R. 1301](#)) when it comes up during the "lame duck" session of Congress that adjourns in a couple of weeks. The House of Representatives approved the bill in September, and the Senate must follow suit if the bill is to succeed. If it fails in the Senate, the entire process will have to be repeated in the new Congress. The legislation is now in the Senate in two forms -- as H.R. 1301 and alternately in the packaged bill S. 253.

"We are on our final push for the Amateur Radio Parity Act before Congress adjourns," said ARRL President Rick Roderick, K5UR. "The grassroots effort by the Amateur Radio community has been outstanding. Since September, over 110,000 e-mails have been sent to legislators in Congress. Thanks to everyone who has helped, but we can't stop now. Please, keep the e-mails coming and also work the phones down the stretch. Call your Senators! We are almost there. Let's get it done!"

ARRL Hudson Division Director Mike Lisenco, N2YBB, who chairs the ARRL Board's Legislative Advocacy Committee and has been heavily involved in efforts to move H.R. 1301 forward, echoed President Roderick's sentiments. He said the bill was just starting to build momentum in the Senate following its unanimous passage in the House, when Congress shut down for the 4 weeks prior to Election Day. He pointed out that H.R. 1301 has received broad support from both parties.

Lisenco had a special request of Florida radio amateurs. "Please write and call Sen. [Bill Nelson](#) and demand that he remove his hold on H.R. 1301 and support passage of this critical legislation."

Urging your US Senators' support is simple: Go to our [Rally Congress](#) page, enter your ZIP code, fill in your name and address, press enter, and e-mails will go directly to your Senators. Members may do this even if they have already contacted their US Senators for support.

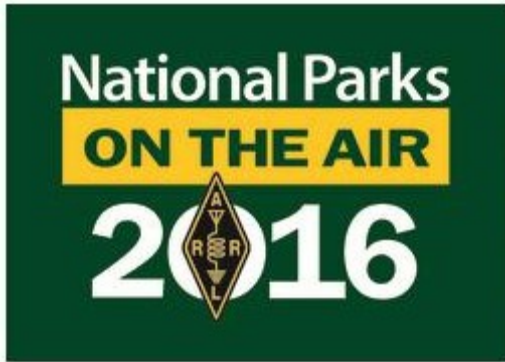
There are no guarantees, Lisenco has pointed out. "In order to have a chance at overcoming political obstacles that have little or nothing to do with the legislation, we need our voices to be heard," he said. "And we need that input today!"

President Roderick urged members to "reach out one more time to your Senators *today!* Right away. Right now!" Read [more](#).



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## National Parks on the Air Update



ARRL's National Parks on the Air ([NPOTA](#)) program is down to its final month. Over 460 of the 489 NPOTA units have been activated, with over 15,500 visits to eligible sites. With 30 days to go, there is a big push to cross the 1 million contact threshold. This past week saw nearly 30,000 contacts uploaded to Logbook of The World, bringing the year-to-date total to more than 915,000 contacts. There will be plenty of NPOTA activity in December; how many stations can you work in the final month?

Seventeen activations are scheduled for the week of December 1-7, including Theodore Roosevelt Island National Memorial in Washington, DC, and Sitka National Historical Park in Alaska. [Details](#) about these and other upcoming activations can be found on the NPOTA Activations calendar.

Keep up with the latest NPOTA news on [Facebook](#). Follow NPOTA on [Twitter](#) (@ARRL\_NPOTA).

## ARRL Expands Initiative to Fire Up Collegiate Amateur Radio Clubs



A growing number of campus radio clubs and student radio amateurs have begun to share ideas and suggestions on the ARRL Collegiate Amateur Radio Initiative ([CARI](#)) Facebook page, which is aimed at sparking renewed participation, activity, and idea-sharing among this special sector of the Amateur Radio community. The now-expanded initiative stemmed from two well-attended ARRL New England Division Convention forums for radio amateurs attending college, one hosted by the Amateur Radio clubs at Harvard (W1AF) and Yale (W1YU). As the forum explained, the activity level at campus Amateur Radio club stations can vary wildly from one year to the next, as students graduate and newcomers arrive.

"The most common difficulty stems from uneven interest over time," said ARRL CEO Tom Gallagher, NY2RF, in his "Second Century" editorial, "Cheers for College Amateur Radio: Sis-boom-bah!" in the December 2016 issue of *QST*. "Even the strongest leaders in college Amateur Radio graduate every 4 years, sometimes leaving their clubs without adequate continuity or leadership succession."

Gallagher pointed out that "recognized" student activities require *students* in order to maintain that status. However, even officially recognized college club stations may find themselves at the mercy of administrations in terms of space for a station and antennas, and some clubs have had to move more than once to accommodate their schools' space requirements. Issues involving safety and security can also affect college radio clubs.



In a recent post, Kenny Hite, KE8CTL, a graduate teaching assistant at West Virginia University, said the university's Amateur Radio club, W8CUL, has been unable to participate in recent on-the-air events "due to lack of working equipment and questionable antenna setups," as he put it. Another

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poster, Dennis Silage, K3DS, who's associated with the Temple University Amateur Radio Club ([K3TU](#)), said, "A key to a successful and long-running college club seems to be faculty involvement for stability and recognition." He invited other CARI participants to check out the club's website.

"It occurred to us that, if college Amateur Radio could galvanize [mutual interests], then colleges might just provide the ideal bridge between youthful interest in the subject and lifelong participation in our community," Gallagher wrote. Read [more](#).

## Rocky Mountain Division Director Dwayne Allen, WY7FD, Overcomes Challenge to Win Election



ARRL Rocky Mountain Division Director Dwayne Allen, WY7FD.

ARRL Rocky Mountain Division Director Dwayne Allen, WY7FD, has won election to a 3-year term. As Vice Director, Allen assumed the Director's seat last January, after the Board of Directors elected former Director Brian Mileschosky, N5ZGT, as Second Vice President. Allen outpolled challenger Garth Crowe, WY7GC (ex-N7XKT), 1,112 to 528 votes, to win the seat in his own right. Ballots were counted November 18 at ARRL Headquarters.

The Rocky Mountain Division Director's seat was the only contested election for the 2017-2019 cycle. Allen served previously as Wyoming Section Manager, from 2005 until 2007.

New terms of office begin on January 1, 2017, at 12 noon Eastern Time.

### In Brief...



**JOTA 2016 Report Shows Participation was Up:** The Boy Scouts of America has released the [final report](#) on the 2016 Jamboree on the Air (JOTA), and the news is good. Participation was up from 2015, despite what the report called "terrible propagation." According to the report, 10,761 Scouts took part, an increase of more than 50% from a year earlier, and the number of stations filing reports, at 267, jumped by 28% from 2015 (the record was 271 in 2013). The number of Amateur Radio operators was up by 14% to 1,120, although the number of radios reported in use dropped by 25% to 631. Total JOTA 2016 contacts remained flat at 8,254. Over the next several months, the BSA National Radio Scouting Committee will review various suggestions to determine improvements that can be made for JOTA 2017. These include concerns over conflicting on-the-air activities and the need for better advance publicity. -- *Thanks to JOTA Coordinator Jim Wilson, K5ND*



# 2016 Field Day Results

If you haven't already checked out the Field Day results for 2016 hear they are. I would like to recognize all the clubs, groups, and individuals who participated in the 2016 Field Day Event! Thanks for your efforts. Our Utah ARRL section had a total of 27 entries this year and we had a great mix of clubs, groups and individuals who chose to participate in a number of different classes. I know it isn't a contest but we sure had a lot of fun and the scores are only a secondary part for field day- right! I looked up all of your scores and have listed them below. We had folks enjoying field day all over Utah. If you desire more detail check out your December QST pages 74 thru 87 or the ARRL Web site [http://www.arrl.org/results-database?event\\_id=80253](http://www.arrl.org/results-database?event_id=80253)

Let's do it again in 2017.

#	Call	Score	Cat	QSOs	Power Mult	GOTA Call	Section	Participants	Club/Name
1	W7SP	5,422	3A	1,529	2	K7LO	UT	52	Utah ARC
2	K7DAV	5,204	3A	1,265	2	N7CN	UT	54	Davis ARC
3	K7UVA	4,032	3A	1,305	2	K7GSL	UT	70	Utah Valley ARC
4	NN7ZZ	2,730	1A	625	2		UT	3	UDXA North Team
5	W7RCH	2,448	1F	399	2	W7RCH	UT	9	Cottonwood Heights ARC
6	KK7L	2,430	1B2B	233	5		UT	2	Utah DX Assn QRPers
<b>7</b>	<b>W7IVM</b>	<b>2,282</b>	<b>5A</b>	<b>488</b>	<b>2</b>		<b>UT</b>	<b>60</b>	<b>BridgerLand ARC</b>
8	KR7KR	1,858	5A	360	2		UT	60	Ken Richter
9	WR7Q	1,774	1B1	423	2		UT	1	Bob Carter
10	KI7EWG	1,766	3A	173	2		UT	10	Draper Ham Radio Assn
11	W7BAR	1,676	3A		2		UT	40	Basin ARC
12	AD7KG	1,504	1B2	364	2		UT	2	Jed Petrovich
13	W7SU	1,472	2A	310	2		UT	16	Ogden ARC
14	W7DRC	1,398	2A	217	2		UT	8	Dixie ARC
15	K7JEO	1,258	1B1	454	2		UT	1	Jim Olsen
16	AK7AN	954	2B2	206	2		UT	2	Ed Nicholes
17	KI7BEQ	885	2AB	19	5	KB0LQJ	UT	5	U HAM Univ of Utah
18	K7NM	576	1E	211	2		UT	1	Louis Barrett
19	W7S	566	2A	43	2		UT	50	Sandy ARC
20	K7RFW	444	1E	63	2		UT	1	Ray White
21	K7ZI	412	1B1	53	2		UT	1	Richard Parker
22	K7BSK	380	1A	95	2		UT	8	Skyline RC
23	K7DLX	348	2D	149	2		UT	2	Richard Wayman
24	KZ7ZUL	202	1D	38	2		UT	1	Wesley Segni
25	K0ESX	146	1D	48	2		UT	1	Damon Downing
26	K7DBN	112	1E	31	2		UT	1	Daniel Sealey
27	WI7P	92	1C	21	2		UT	1	Randolph Kohwley

Thanks again!

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 ARRL Utah Section  
 Section Manager: Melvin T Parkes, NM7P  
[nm7p@arrl.org](mailto:nm7p@arrl.org)  
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## Questions for The Technician Class License

1. (T1A12) Which of the following is a permissible use of the Amateur Radio Service?
  - A. Broadcasting music and videos to friends
  - B. Providing a way for amateur radio operators to earn additional income by using their stations to pass messages
  - C. Providing low-cost communications for start-up businesses
  - D. Allowing a person to conduct radio experiments and to communicate with other licensed hams around the world
2. (T2A12) Which of the following is a guideline to use when choosing an operating frequency for calling CQ?
  - A. Listen first to be sure that no one else is using the frequency
  - B. Ask if the frequency is in use
  - C. Make sure you are in your assigned band
  - D. All of these choices are correct
3. (T3A11) Which part of the atmosphere enables the propagation of radio signals around the world?
  - A. The stratosphere
  - B. The troposphere
  - C. The ionosphere
  - D. The magnetosphere
4. (T4B05) Which of the following would reduce ignition interference to a receiver?
  - A. Change frequency slightly
  - B. Decrease the squelch setting
  - C. Turn on the noise blanker
  - D. Use the RIT control
5. (T5D07) What is the current flow in a circuit with an applied voltage of 120 volts and a resistance of 80 ohms?
  - A. 9600 amperes
  - B. 200 amperes
  - C. 0.667 amperes
  - D. 1.5 amperes
6. (T6D01) Which of the following devices or circuits changes an alternating current into a varying direct current signal?
  - A. Transformer
  - B. Rectifier
  - C. Amplifier
  - D. Reflector
7. (T7D10) What is probably happening when an ohmmeter, connected across an unpowered circuit, initially indicates a low resistance and then shows increasing resistance with time?
  - A. The ohmmeter is defective
  - B. The circuit contains a large capacitor
  - C. The circuit contains a large inductor
  - D. The circuit is a relaxation oscillator
8. (T8D02) What does the term “APRS” mean?
  - A. Automatic Packet Reporting System
  - B. Associated Public Radio Station
  - C. Auto Planning Radio Set-up
  - D. Advanced Polar Radio System
9. (T9B09) What might cause erratic changes in SWR readings?
  - A. The transmitter is being modulated
  - B. A loose connection in an antenna or a feed line
  - C. The transmitter is being over-modulated
  - D. Interference from other stations is distorting your signal
10. (T0C05) Why do exposure limits vary with frequency?
  - A. Lower frequency RF fields have more energy than higher frequency fields
  - B. Lower frequency RF fields do not penetrate the human body
  - C. Higher frequency RF fields are transient in nature
  - D. The human body absorbs more RF energy at some frequencies than at others



(For answers to test questions see bottom of [page 14](#))



# BARC Club Officers

## *President*

Cordell Smart KE7IK

[president@barconline.org](mailto:president@barconline.org)

(435) 245-4581



## *Vice President*

Ted McArthur AC7II

[ac7ii33@gmail.com](mailto:ac7ii33@gmail.com)

(435) 770-9169

## *Secretary*

Tammy Stevens N7YTO

[secretary@barconline.org](mailto:secretary@barconline.org)

(435) 753-2644

## *Treasurer*

Kevin Reeve N7RXE

[treasurer@barconline.org](mailto:treasurer@barconline.org)

(435) 753-1645



## *Board Members*

Tyler Griffiths N7UWX

[N7UWX@comcast.net](mailto:N7UWX@comcast.net)

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Answers to questions on [page 13](#): 1-D, 2-D, 3-C, 4-C, 5-D, 6-B, 7-B, 8-A, 9-B, 10-D