



THE OHM TOWN NEWS

Voice of the Bridgerland Amateur Radio Club

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

January 2016

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ARRL Affiliated



PRESIDENT'S MESSAGE

In 2014, the ARRL centennial QSO party was a year-long operating event making contacts from every state and most territories with the WIAW portable operations that was exciting and fun. For 2016, the ARRL is helping the National Park Service celebrate their 100th anniversary by having a year-long [National Parks on the Air \(NPOTA\)](#) event. The NPOTA will allow hams from across the country to activate National Park Service (NPS) units, promote the NPS, and showcase Amateur Radio to the public. NPOTA will be administered entirely through Logbook of The World (LoTW).

There are 408 official NPS “Administrative Units” and 25 NPS “Affiliated Area” across the US. These include all 59 National Parks, plus National Battlefields, Historic Sites, Memorials, Preserves, Reserves, Rivers, Seashores, National Scenic Trails, and many other units. A list of the National Park units is on the ARRL NPOTA web site under the [NPS Units tab](#). Here you can select the state or territory to view the NPS units in that area. In Utah there are 18 NPS units throughout the state.



The [California National Historic Trail](#) is one of the 18 NPS units in Utah and it cuts across the northern part of Utah. It is not a continuous traditional trail from end to end, but consists of many trail traces, structures, graves, landmarks, and markers left on the landscape to remind us that the trail still lives on. The NPS has an [interactive map](#) that shows the route of the California National Historic Trail and points of interest and places to visit along the trail route. On the [publications page](#) they have a list of Auto Tour Route Interpretive Guides from the different states that provide an overview of the local trail history and driving directions to suggested sites and points of interest.

The NPOTA event will have two tracks of participation - Chasers and Activators. Chasers will simply attempt to make contact with operators in a many NPS units as possible. Activators will attempt to activate as many of the units sites and points of interest as possible. You may participate as both Chaser and Activator.

The success of the NPOTA is dependent on amateurs willing to operate from the NPS units. Activators should understand that they will be required to follow all NPS rules for whatever unit they attempt to activate. To see what NPS units have scheduled NPOTA activity, the ARRL NPOTA web site [On the Air tab](#) has a 10 day listing of registered event locations and their schedule. If you decide to activate an NPS unit, you must use your LoTW account to register your activation.

The ARRL National Parks on the Air Event is an exciting event that is designed to be an outward promotion of the capabilities of Amateur radio to the general public and to make contacts to the many National Park units that preserve our history.

73,
Cordell
KE7IK

UPCOMING 2016 ACTIVITIES

- 09** January 10:00 AM — BARC Club Meeting - Antennas
- 13** January, 7:30 PM — ARRL Rocky Mountain Division Net
147.200/IRLP Node: 9871
- 16** January, 8:00 AM — RACES HF Net 3920 KHz
- 20** January, 7:00 PM — Cache County ARES meeting at the Sheriff's Office
- 23** January, 8:30 AM — Northern Colorado ARC Winter Hamfest
In Loveland, CO ([More Info](#))
- 30** January, 7:00 PM — Albuquerque Winter Tailgate Swapfest ([More Info](#))
- 06** February, 8:00 AM - 5:00 PM One Day Ham Class Tech ([More Info](#))
VEC License Test Session follows class at about 3:00 PM
- 07** February, 9:00 AM — The Swapfest (Brighton, CO) ([More Info](#))
- 10** February, 7:30 PM — ARRL Rocky Mountain Division Net
147.200/IRLP Node: 9871
- 13** February 10:00 AM — BARC Club Meeting - PC in the Shack

For more calendar information see the barconline.org/calendar

Local Radio Nets:

The **Weekly BARC net** is for BARC members and anyone else that would like to check in, held **every Tuesday night at 9:00 p.m.** local time on the Mt Logan BARC Repeater and Linked Systems (146.720)

The **BARC Ladies Net** is every **2nd and 4th Tuesday at 8:00 p.m.** on the BARC Repeater and Linked Systems (146.720). All licensed lady amateur radio operators are welcome to check in.

BARC Club Meetings are normally on the 2nd Saturday of the month at 10:00 A.M. on the 3rd floor of the Cache County Sheriffs Complex on 200 North and 1225 West, Logan, Utah.

ARES Meetings are usually held on the Third Wednesday of each month at 7 P.M. at the Cache County Sheriffs Complex. Contact Tyler Griffiths for more information.

A Tribute as given at the Funeral for Val Campbell

By Spencer Dattage KE7TAS

I was asked to speak a few minutes about our good friend Val , BUT, I can't talk about Val without talking about Jeanette, because they were a team. Val got his HAM radio license in 2007 and became KE7QHT, and then in 2011 he upgraded to a general class. Jeanette, got her license in 2009 and became KF7GSR, she upgraded to general in 2011. They were very active together. They were members of BARC, the Bridgerland Amateur Radio Club; which is a group of amateur radio operators located in Northern Utah. They enjoy many aspects of the hobby from HF to VHF and beyond. They are active in many service events, including Field-day, APRS, Packet, Winlink, Contesting and more.

Some of the events the two of them participated in included Little Red Riding Hood, (a ride for Breast Cancer support), Rocket Recovery, Field Day, Top of Utah Marathon, Bear 100, LotoJa and Bike the Bear. They have acted in the capacity of Net Control, Medical officers, SAG, Checkpoint and chasing rockets. They were always among the first to volunteer, and the last to cleanup and leave. They did whatever they could to support the participants and the volunteers. Val went numerous times to Elmer night to be available to help new HAM operators learn more about their radios. He was always wanting to learn more too.

In 2011 Val and Jeanette were presented the President's Service Award from the Club, which is a great honor.

In their neighborhood, they served as the Co-Communications Specialists in their ward and along with Ed Woffinden (WF7NDN) acting as the Emergency Preparedness Specialist they were able to organize their Ward into Blocks responsible for the immediate welfare of their neighbors with the assignment to check-in with the Bishop on a Net they had set up each 1st and 3rd Sunday's. Val and Jeanette were so faithful in conducting that net 2 times each month. They actually have set the standard to follow in our stake.

Val was kind and gracious, always appreciative of what people would do for him. They were very active in the Red Cross and FEMA, and when the Red Cross office moved to Ogden they were able to keep the radio here in the valley to allow them greater communication with Ogden.

When imprisoned in Liberty Jail, the suffering Prophet Joseph Smith was counseled to not merely survive but to endure well. And the Lord said to him, "All these things shall give thee experience, and shall be for thy good," (D&C 122:7) . Elder Maxwell extrapolated this quote to include all of us as he said, what is enduring well? He goes on to say "these things" might consist of health or economic problems or countless other situations and can become life's most defining moments. If endured well each of these experiences can contain the clinical material needed for tutoring, which can be especially for our good. I would like to think that Val endured well and it shall be for his good."

73's my good friend.

Val became a Silent Key on December 21, his funeral was held on Dec 29. He will be greatly missed.

The ARES E-Letter for December 16, 2014

Western Washington Amateurs Activated for Landslide

In the afternoon of Wednesday, December 9th, the northbound lanes of Interstate 5, a major transportation route along the West coast, were blocked by a landslide at mile post 23, just north of Woodland, Washington. Boulders the size of small trucks, mud, and trees invaded all three traffic lanes. Mother Nature did an excellent job of picking a slide location that would create the most chaos as there are no alternate routes in the area, and another slide blocked US Hwy 30 just across the Columbia River in Oregon.

[Woodland](#), a tiny community of less than 5,800 residents located at the southern tip of Cowlitz County, was inundated by thousands of unexpected cars and trucks taking exits 21 and 22. Emergency Coordinator Randy Greeley, NU7D put out a heads up email on Wednesday evening, and the Cowlitz County Department of Emergency Management, led by professional Emergency Manager Ernie Schnabler, KB7YPU, activated the ARES portion of its ACS volunteer group on Thursday morning, December 10th.

Handling the coordination at Woodland was the Mayor of Woodland, Grover Laseke, KG7O, and Clark County ARES Team 1 Leader Randy Walter, K7LNR. Two shelters were opened for motorists, one by the Red Cross at Grace Community Church on the east side of the freeway, and one at Woodland High School on the west side of the freeway. Walter reported that "Woodland High School canceled school for the day and opened its facilities to stranded travelers with support from its staff." Both shelters, Woodland City Hall, and the Washington State Department of Transportation (at the scene of the slide) were supported by Amateur Radio communications.

Two VHF repeaters owned by the [Lower Columbia Amateur Radio Association](#) were used to facilitate the amateur response. The City of Woodland produced two sets of situation update flyers for posting at local businesses on both sides of the freeway, and the second set was distributed by Dave Bunch, KF7MJQ, and Walter. Other radio amateurs providing communications assistance to the Woodland landslide incident were Bill Czarnecki, KF7ZAT, Carl Gray, K7ECW, Cecil Woolfe, KE7UAN, Colleen Greeley, KB7AYY, Darin Hokanson, KD7TJR, Gordon Spalding, WA6TTR, Jeff Edgecomb, KB7PMO, Jeff Hillendahl, KJ6ETR, Kie Ludwig, KD7UQR, Phil Vanderschaegen, KF7SJK, Ray Blanke, KC7MRM, and Stan Mourning, KF7CVR.

One element of the response that could have been improved from the perspective of the stranded motorists was the (non-amateur) communications between Washington and Oregon. Because of the slides on two parallel north-south highways at the same time, northbound motorists on US Hwy 30 in Oregon were redirected to I-5 in Washington, and northbound motorists on I-5 in Washington were redirected to US Hwy 30 in Oregon.

Two of the three lanes of northbound I-5 were re-opened in the evening on Thursday, December 10th, after a closure of approximately 28 hours, and the Amateur Radio communications support teams were released. Radio amateurs contributed 163.5 hours and drove 368 miles. -- Steve Aberle, WA7PTM, ARRL Official Emergency Station (OES), ARRL Western Washington Section

Public Service Communications: Know, Communicate, and Maintain the Boundaries

Here are two quotes, which stunned me as much as they should you: "*I had no idea what the hams were doing - they were making decisions that were not theirs to make.*" "*The hams never integrated.*" The latter may speak to the former, but these quotes come from two distinct organizations, neither having any connection with the other except for this: negative experiences with our amateur service. These same organizations eventually came back to Amateur Radio, both thanks to a refreshing change in leadership, and with an encouraging constant that held through good times and bad: the quality of our average volunteer. I hear it so often and from every organization and agency: "*The hams are dedicated. They show up on time, eager to help. They are our best volunteers.*"

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With people like these, why such dissonance? It's a leadership issue, but more than this I believe it comes down to individual relationships and a failure sometimes to recognize, communicate, and maintain boundaries.

It's a whole new ball game nowadays. We're not on the scene just to erect a few antennas and check in with net control. Our new roles involve working closer with others, understanding and speaking the language of our "client," doing a lot of communicating long before the event or emergency occurs, and establishing boundaries: Who is responsible for what? How will we handle a particular issue? Who do we report to? Amazingly, time and again, I find these basic questions are never considered by those who allege to lead our teams. It is, I think, the one reason why we sometimes fail.

In our Western culture, boundaries are commonly considered in a negative frame of reference, but in the field of human relationships where we do much of our interfacing in Amateur Radio public service, boundaries build trust and confidence and they simply make everything run smoother.

I was asked to help organize communications services for a small athletic event. It had the typical closed-course, with water stops, a medical tent, and a loosely constructed set of event leadership. I had reservations: no participation was permitted in the pre-event planning. No integration of our service within the event structure was allowed. We were, I was told, "trusted" to do the right thing. This approach, with its cart before the horse, spelled trouble. Horses don't follow carts very well I thought, and should anything screw up we'll be on the hook. Still, I pitched in and put it together, but with a very cautious approach. Instead of waiting for the rules, I set them myself, and very conservatively. Just before things kicked off I cornered the event official. In friendly fashion I said, "Our job is to provide instant and reliable communications to support safety and extend your decision-making reach, nothing more. This is your event and you make the decisions." I think it was the "nothing more" that stuck, plus the open recognition of and deference to his authority. It opened his eyes, and a few doors. Now, several years doing the same event (we didn't screw up), our roles are expanded, and conversations are finally taking place. I don't recommend this tactic for every event, and I probably would not do it this way again, but perhaps it helps make the point.

Boundaries are everywhere and must be considered in how we create a communications plan, what's in the plan, and how it's executed. But plans are only as good as those who follow along. The [ARRL Emergency Communications course](#) training reminds us that our role within the EOC, UCC, or any place where we serve others, is to work as a "team player." We are encouraged to take orders (in other words, respect and support boundaries), and to understand that doing so is one of the basic expectations. Things become quickly dysfunctional when a volunteer struts about, insecure and lacking internal controls, inside a group that recognizes the vital link between organization and success; teamwork and individual contribution; working within established channels, consistent with the plan.

As a leader, how open are you to understanding, communicating and maintaining boundaries? I encourage you to consider these questions. If uncertain, then ask. If you discover areas of your work that might cross a boundary previously unconsidered, discuss it with those above you in the chain of command. If a volunteer crosses the line, perform rapid correction, then improve training, and refine your volunteer selection, screening, and assignment. Above all, make it your goal as a leader to listen, and to approach your bosses and your teams with a relationship-opening attitude. Replacing "here's what I will do for you" with the simple question "how may we be of service?" goes a long, long way.

Boundaries -- they're waiting to be better understood, communicated, refined, and maintained. Our Amateur Radio communications service will be all the better for such efforts. - *Mark Richards, K1MGY, Littleton, Massachusetts* [Richards serves as a member of the Boston Athletic Association Communications Committee, and is a frequent public service event volunteer and organizer. He holds an Extra Class license and is employed in the technical design and product development of hand-held environmental monitoring instrumentation.]

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Letters: "What You Are Not"

The article "What You Are Not" in the October 22, 2015, issue perfectly captures the pre-9/11, pre-ICS view of Amateur Radio in emergencies. In the post-9/11 era, our role has evolved to the point where we are seen more as trained communications experts who can be embedded in and expect to have defined leadership roles. We are now more involved with emergency communications planning, and are expected to make decisions within our scope of practice. Our government partners treat us more as advisors and peers; we are careful to take their direction and coaching. We now have advanced skills, more quality and quantity of volunteers and more capable, resilient communications infrastructure to offer (such as emerging high speed data radio networks). -- Erik Westgard, [NY9D](#), St. Paul, Minnesota

The ARRL Letter for December 17, 2014 Florida Ham Agrees to Penalty for Failure to Identify

The FCC Enforcement Bureau has entered into a consent decree with a Florida radio amateur to resolve an investigation into whether the licensee violated Sections 97.113(b) and 97.119(a) of the FCC rules by transmitting one-way communications and failing to identify. As part of the deal, Thomas J. Warren, K3TW, of Lecanto, Florida, will pay a monetary penalty. The FCC issued an [Order](#) incorporating the *Consent Decree* on December 9 in the case, which dates back to June 2015.



"In response to complaints that an unidentified station was transmitting on an Amateur Radio frequency at 14 MHz, FCC agents determined that the transmissions were coming from Mr Warren's residence," the FCC said in its December 9 *Order*. "To settle this matter, Mr Warren admits that he failed to transmit his assigned call sign, violated the Commission's rules, will report any noncompliance with rules governing the Amateur Radio Service, and will pay a \$3500 civil penalty."

The *Consent Decree* provided a few more details of the case. The FCC recounted that, after tracking down the unidentified transmissions to Warren's residence, Warren conceded that he had not identified at least some transmissions that he'd made that day. "The agents issued an on-scene written warning to Mr Warren regarding the violations," the FCC said in the *Consent Decree*. "In his written response to the warning, Mr Warren acknowledged that he may

have failed to transmit his station identification as required on June 25, 2015."

According to the *Consent Decree*, Warren's transmissions "related to an ongoing dispute with another Amateur Radio operator, whose intentional interference had allegedly disrupted communications on the American Foreign Service Net that operates weekly on 14.316 MHz." Read [more](#).

Astronaut Tim Peake, KG5BVI, to Host First ARISS Video Contact

European Space Agency (ESA) astronaut Tim Peake, KG5BVI, who just arrived on board the International Space Station, will be the first ISS crew member to use the HamTV digital Amateur Radio TV (DATV) system during an Amateur Radio on the International Space Station (ARISS) contact. Peake, NASA astronaut Tim Kopra, KE5UDN, and Russian cosmonaut Yuri Malenchenko, RK3DUP, launched in a Soyuz spacecraft on December 15 from Baikonur, Kazakhstan, and arrived at the ISS about 6 hours later.

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ESA Astronaut Tim Peake, KG5BVI (left), on board the Soyuz spacecraft and on his way to the ISS with Astronaut Tim Kopra, KE5UDN, and Cosmonaut Yuri Malenchenko, RK3DUP. [NASA TV image]

The UK ARISS team is assembling a mobile Earth station, to be installed at the school on the day of the contact. The team recently visited Goonhilly Earth Station in Cornwall to commission a dish to receive the 2.4 GHz HamTV DATV transmissions from the ISS. The ISS activities have been designed to maximize the impact of Peake's "[Principia Mission](#)" outreach by directly engaging students in communication technologies and inspiring them to pursue careers in science, technology, engineering, and math (STEM) fields.

"With Tim's space mission and Amateur Radio have the power to inspire young people and encourage them into STEM subjects," said Emily Curtis, Head of Education at the UK Space Agency. "By bringing them together we can boost their reach and give young people around the UK the chance to be involved in a space mission and a hands-on project that will teach them new skills."

During the contacts the ARISS team will provide information displays on the ISS position and webcams showing both the local and Goonhilly dishes as they track the ISS. The hosting schools will organize presentations and displays before and after the contacts, and the ARISS team will offer a live webcast of the day's events, including the actual contact with Peake. Read [more](#). -- Thanks to AMSAT, ARISS, and RSGB

The ARRL Letter for December 24, 2014

Philippine Radio Amateurs Respond to Typhoon Threat

The Philippine Amateur Radio Association ([PARA](#)) activated its Ham Emergency Radio Operations (HERO) on December 12 as Typhoon Melor -- locally called Typhoon Nona -- threatened the Philippine archipelago. The storm boasted winds up to and slightly in excess of 100 MPH. National Traffic System Chairman Jojo Vicencio, DU1VHY, announced the activation during the early-morning DU NET. HERO used 7.095 MHz for emergency traffic, and other hams in the region cooperated in keeping the frequency clear.

Stations from the Eastern Visayas area hit by Super Typhoon Haiyan in 2013 as well as various emergency communication groups and clubs checked into the net. Melor made its first landfall between Catarman, Northern Samar, and Sorsogon, Southern Luzon. Stations in Eastern Samar and Tacloban City were on alert. Some hams embedded with local disaster risk reduction and management councils/offices.

The eye of Typhoon Melor made a second landfall over Bulusan, Sorsogon. The province of Albay declared a state of imminent emergency. Workers and students were sent home, and stores and shops closed. Pre-emptive evacuations were undertaken in coastal towns in danger of dangerous storm surges, as reported by HERO stations. As the storm progressed through the Bicol region, PARA members continued to give reports on 7.095 using emergency power.

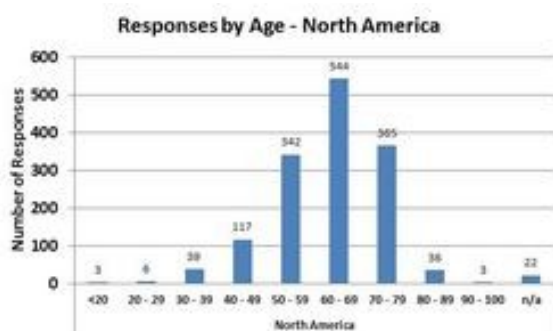


The typhoon abruptly weakened into a tropical storm on December 16. Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA) forecasters lifted high-level storm warnings, as winds dropped to between 75 and 90 MPH. -- Thanks to Ramon J. Anquilan, DU1UGZ, via [IARU Region 1 News](#)

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Preliminary CQ World Wide Survey Results Suggest Contesters Trending Older

The CQ World Wide Contest Committee has [posted](#) the preliminary results of its September survey of CQ WW participants. The committee received 5117 responses from contesters around the world, the greatest number -- nearly 2600 -- from Europe. An analysis of the results showed that most survey participants were in the older age brackets and that there were not many youth participants.



The distribution by age among North American CQ WW survey respondents. [CQ graphic by Doug Zwiebel, KR2Q]

"This is especially true when we look at the age distribution in North America," said the analysis, prepared by Doug Zwiebel, KR2Q. "There is very little survey participation in North America from those under 40 years of age." More than 900 of the nearly 1500 respondents from North America were at least 60 years old, according to the survey.

CQ said the situation in Europe was "a little more optimistic," where the age curve trended about 10 years younger overall.

"While the missing young people could be a symptom of the survey methodology, any look around a ham radio club meeting [or] convention reveals similar findings," the survey commentary said. "Should we be concerned about the future

of radiosport (and Amateur Radio)? What can we do to encourage more young people to participate?" it went on to ask.

The CQ WW Contest Committee analysis concluded that older-skewing operators may lead to lower operating times, increased multioperator entries, or eventual less overall activity.

CW was far and away the most popular operating mode, at least among participants age 40 or older. Nearly 62 percent of those participating in the CQ WW survey indicated they were either serious contesters or part-timers trying for the best score.

"It was very gratifying to receive so many survey responses in such a short time," the CQ WW Contest Committee said in summary. "The CQ WW community is passionate and engaged -- both on the air and in considering the future of the event." Other summary highlights:

- Europe is the leader for contest activity.
- Contesters are getting older.
- There is a wide range of interest levels.

CW is the favorite operating mode.

The CQ WW Contest Committee said that a future blog post would discuss the results of questions related to possible rule changes.



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US Applicants Move into Next Stage of ARISS Contact Selection Process

Amateur Radio on the International Space Station ([ARISS](#)) has announced that the proposals of 17 schools and organizations submitted during the recent application window will move forward into the next stage of planning to host Amateur Radio contacts with ISS crew members. Once scheduled, the contacts will take place between July and December 2016.

"This is a significant step in ARISS' continuing effort to engage young people in Science, Technology, Engineering, and Math (STEM) activities and raise their awareness of space exploration, space communications, and related areas of study and career possibilities," the ARISS announcement said.

The 17 schools/organizations now must complete acceptable equipment plans that demonstrate the ability to execute a contact. Once the ARISS technical team approves equipment plans, the final selected schools/organizations will be matched up with contact opportunities offered by NASA.

The schools and organizations are Boca Raton Christian School, Boca Raton, Florida; The Children's Museum of Indianapolis, Indiana; Frontiers of Flight Museum's "Moon Day 2016," Dallas, Texas; Howell L. Watkins Middle School, Palm Beach Gardens, Florida; iSPACE, Cincinnati, Ohio; John Glenn Middle School, Maplewood, Minnesota, and Kopernik Observatory & Science Center, Vestal, New York.

Also, Lawrence Public Library, Lawrence, Kansas; Museum of Innovation and Science, Schenectady, New York; Northland Preparatory Academy, Flagstaff, Arizona; Peoria Riverfront Museum, Peoria, Illinois; University of Nebraska's Peter Kiewit Institute, Omaha, Nebraska; South Street School, Danbury, Connecticut; Space Jam 10, Rantoul, Illinois; United Space School, Seabrook, Texas; US Space & Rocket Center, Huntsville, Alabama, and World Genesis Foundation, Goodyear, Arizona.

ARISS is a cooperative venture of AMSAT, ARRL, and NASA in the US, and other international space agencies and Amateur Radio organizations around the world. Its primary purpose is to organize Amateur Radio contacts between ISS crew members and classrooms or informal education venues.

Boston Marathon Seeks Amateur Radio Volunteers with Technical Skills:

Preparations are under way for the 120th running of the Boston Athletic Association's [Boston Marathon](#), which takes place on Patriots' Day, April 18, 2016. Nearly 300 trained Amateur Radio volunteers staff the event each spring, providing vital communication services over the entire 26-mile course. Volunteers are recruited, selected, and managed by the BAA's Communications Committee, now in its second year. "A major initiative of the Committee this year is to bolster the technology we use on Marathon Monday," said Communications Committee member Matthew Forman, K6MCF. "To do so, we're forming a Technical Infrastructure Subcommittee (TIS) and seeking amateurs who can offer current skills in analog and/or digital modes (UHF/VHF), repeaters, and infrastructure. We'd like to have the TIS consist of one technically seasoned member from Amateur Radio clubs in Massachusetts, Southern New Hampshire, and the northern parts of Connecticut and Rhode Island." Committee member Mark Richards, K1MGY, will assist in representing the TIS to clubs and other interests. [Contact](#) Richards for more information.



Questions for Technician Class License

1. (T1A06) Which of the following services are protected from interference by amateur signals under all circumstances?
 - A. Citizens Radio Service
 - B. Broadcast Service
 - C. Land Mobile Radio Service
 - D. Radionavigation Service
2. (T1B01) What is the ITU?
 - A. An agency of the United States Department of Telecommunications Management
 - B. A United Nations agency for information and communication technology issues
 - C. An independent frequency coordination agency
 - D. A department of the FCC
3. (T1C06) From which of the following locations may an FCC-licensed amateur station transmit, in addition to places where the FCC regulates communications?
 - A. From within any country that belongs to the International Telecommunications Union
 - B. From within any country that is a member of the United Nations
 - C. From anywhere within in ITU Regions 2 and 3
 - D. From any vessel or craft located in international waters and documented or registered in the United States
4. (T1D11) When may an amateur station transmit without identifying?
 - A. When the transmissions are of a brief nature to make station adjustments
 - B. When the transmissions are unmodulated
 - C. When the transmitted power level is below 1 watt
 - D. When transmitting signals to control a model craft
5. (T1E03) Who must designate the station control operator?
 - A. The station licensee
 - B. The FCC
 - C. The frequency coordinator
 - D. The ITU
6. (T1F04) Which of the following is an acceptable language to use for station identification when operating in a phone sub-band?
 - A. Any language recognized by the United Nations
 - B. Any language recognized by the ITU
 - C. The English language
 - D. English, French, or Spanish
7. (T2A10) What is a band plan, beyond the privileges established by the FCC?
 - A. A voluntary guideline for using different modes or activities within an amateur band
 - B. A mandated list of operating schedules
 - C. A list of scheduled net frequencies
 - D. A plan devised by a club to indicate frequency band usage
8. (T2B10) Which Q signal indicates that you are receiving interference from other stations?
 - A. QRM
 - B. QRN
 - C. QTH
 - D. QSB
9. (T2C01) When do the FCC rules NOT apply to the operation of an amateur station?
 - A. When operating a RACES station
 - B. When operating under special FEMA rules
 - C. When operating under special ARES rules
 - D. Never, FCC rules always apply
10. (T3B11) What is the approximate velocity of a radio wave as it travels through free space?
 - A. 3000 kilometers per second
 - B. 300,000,000 meters per second
 - C. 300,000 miles per hour
 - D. 186,000 miles per hour

(For answers to test questions see bottom of page [12](#))

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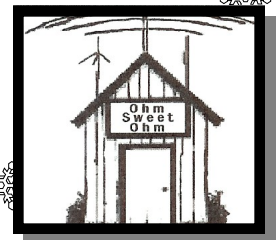
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Answers to questions on page [11](#): 1-D, 2-B, 3-D, 4-D, 5-A, 6-C, 7-A, 8-A, 9-D, 10-B