



# THE OHM TOWN NEWS

*Voice of the Bridgerland Amateur Radio Club*

**JANUARY 2002**

<http://www.barconline.org>

## Happy New Year

### PRESIDENTS MESSAGE

Happy New Year Everyone!

I'm really excited to be the club President again and I am looking forward to a really fun year. With all the events like the World Trade Center that are going on in our world now I am inclined to try to push the club more towards Emergency Communications and Emergency preparedness.

I know a few years back that members said that we were doing too much emergency preparedness, but I think that the time is right now to get going again! And with all the new members, many of them have not had any experience in emergency communications and the rest of us need a good refresher.

By no means do I want this to be the only thing our club does but I think it will be a large share of the topics for our club meetings and some of the other activities we do.

The Sheriffs office is working on a new mobile command post that is an old bus we are refurbishing. This is a great opportunity for the club to get acquainted with the Sheriffs office and what our part is in the County Emergency plan. We will need input on how things should be set up, how best to do the wiring and other aspects of it's operation that the club will be a great resource for it's success.

So if anyone has an Idea for club meeting or other club activities, please feel free to let me or any of the board members know and we will do our best to make it happen this year.

So with everyone's input we will have a great year!

See you at Club Meeting,

73 de Tyler N7UWX

### HAM PROFILE

By Clark Dowding

In December, most six-year-olds are singing "*All I Want For Christmas Is My Two Front Teeth*". Jessica Dowding of Bountiful, Utah, who turned 6 last August, isn't much different from most of her contemporaries in that regard... until she gets to the second verse where she has been inserting the words "*All I Want For Christmas Is My Ham Radio License*". Jessica comes from a large family of Hams and therefore knows a Ham Ticket isn't something Santa can tuck into a Christmas Stocking. So Jessica took matters into her own hands and got to work studying "Now You're Talking" early in December with help from her dad Clark N7TDT and mom Melinda KC7AWQ.

After many hours of studying and taking online practice exams, Jessica was ready to go take a "real" test. On Saturday December 8, 2001, Jessica arrived at the ARRL VE Session sponsored by the Bridgerland Amateur Radio Club in Logan, Utah at 8:00 am to take her test. As she walked into the building with her father, all present thought she was just there to help give Dad moral support for a test. When Clark replied that Jessica was the examinee for the day, all eyes shifted from him down to a grinning



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Thanks to all who participated in our Christmas Party this year. We had a delicious dinner at Ruby Tuesday and a pleasant evening. This year our budgeted amount for the Christmas party was used to purchase door prizes. Many received prizes this year since there was more than 30 prizes and only 41 people attended.

The prizes that were given this year were...

\$25 gift certificate to Earl's RC  
\$25 gift certificate to Radio Shack  
Telescoping antenna  
PL-259 connectors  
External Speakers  
Sling Shot (for stringing antennas)  
First Aid Kits  
Batteries  
Belt Packs for handheld radios  
Frequency Charts  
Repeater Directories

And of course the grand prize of a Yaesu 2M handheld radio which went to Dave and Laurel Hancey. Dave reports that he is very pleased with his new toy.

We had a great time, and hope to see you all next year!

Kathy Brooksby  
KD7FXC

### VE Test Session Results

There was a VE test session held in Logan on December 8. It was a great success, as a result several licenses were issued.

Here are the new licensees and upgraders:

KD7PIM Technician	Nathan M. Nelson	Nibley
KD7PIN Technician	Bradley S. Spackman	Logan
KD7PIO Technician	Jessica T. Dowding	Bountiful
KD7PIP Technician	Bryce Lofthouse	Hyrum
K7THU General	Thomas H. Uhland	South Weber
KD7OJW Extra	Laron F. Woods	Tremonton
K7ACE Extra	David K. Peterson	Murray
KD7OYI Extra	Mark E. Engebretsen	North Salt Lake
N7WJL Extra	Erin H. Milligan	North Logan

### Great Work!

#### A MESSAGE FROM JERRY PETERS WA7ADK:

My Yaesu FT-530 dual band handheld was taken from my car parked in my carport at my home in West Point on the 9th of December. This unit has a recently purchased battery pack with a periphex label on it. The serial number is 3M241496. This has been reported to Davis County Sheriff. If you find someone selling it, please let me or the sheriff's department know who and where.

Thanks,

Jerry Peters WA7ADK  
petersg@webpipe.net

(Ham Profile Continued from page 1)

Jessica. Her infectious smile was instantly mirrored by everyone present and she received many words of warm encouragement from Clyde Best AC7KN and the rest of his wonderful VE crew... not to mention several other kind, hopeful examinees.

Jessica provided her Social Security Card and Birth Certificate for her two forms of ID with Dad's Driver's License thrown in for good measure. Paper work was filled out, signatures added, and the \$10 fee paid. She slid in comfortably behind the computer terminal and other than needing a phone book to sit on, she was ready to take the test. Several folks commented on their surprise at her ease with the computer. She had no problem typing in her Name and Address to get the test started. Clark sat 20 feet behind her feeling quite nervous but amused at the excitement generated by Jessica's performance.

Twenty grueling minutes passed with Jessica gliding through the questions... Grueling for Dad, "Fun" for Jessica. When she finished, one after another of the Examiners came over to stand behind her PC to see how she did. Up finally popped the "Passed" message on screen and, despite other ongoing tests, a previously silent room practically burst with many animated, though whispered, congratulations for Jessica. A couple excited VE's were quietly talking with each other about her while the other examinees either Smiled with approval or Wincing with "oh man... if she can do it I'd better pass this thing" written all over their faces. It was all very fun to watch. Comments included: "She's the youngest we've ever had!" "She must be the youngest in Utah!" "Passed on the first try!" "You should send her picture into QST!" Dad had tears of pride in his eyes when he *finally* got his chance to hug and congratulate his little Ham Radio Operator.

After posing for several photos for the VE's, Jessica was ready to get to the car so she could telephone her Mom and the rest of the family about her success. She phoned or spoke via Ham Radio with her various Ham family members and basked in the attention she received as Dad drove from Logan down to Farmington for the monthly Davis County Amateur Radio Club meeting. Jessica is a new member of DCARC under her Dad's "Family" membership.

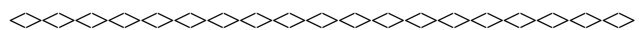
At the DCARC meeting, Jessica's new "celebrity-for-a-day status" continued. Club President Jim Brown NA7G asked for any new Hams to introduce themselves just after he started the meeting. Clark picked Jessica up and announced that, "Six-year-old Jessica here just passed the Technician Class

license exam up in Logan this morning". She received a very loud applause accompanied by hearty cheers. She was invited to come up and assist Jim through-out the meeting with "Prize Drawing" duties. She received a huge peppermint stick for her wages. She says she wants a DCARC name badge to wear to the Club Meetings where she hopes to become a regular attendee. (Though she might be disappointed that she doesn't get a candy cane every time!)

Now that Jessica is the proud owner of the callsign KD7PIO, she doesn't have to hope that Santa will someday deliver a Ham Radio License. And one of her Christmas wishes did come true this year because Santa brought her a new dual-band handheld which she can call her own. Congratulations Jessica and welcome to Amateur Radio!

Amateurs in Jessica's immediate and extended family include: Clark Dowding N7TDT, Melinda Dowding KC7AWQ, Paul Dowding N7TYL, Blake Dowding N7ZWN, Kristi Dowding KC7YCD, Jeff Wallock KD7ANQ, Paula Wallock KD7FQH, Mike Jordan KD7AWI, Jim Spraker KC7BIF and Scott Spraker KC7FUO.

Article written by Clark Dowding N7TDT

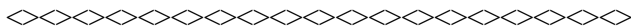


Answers to questions on page 6:  
1-D, 2-A, 3-B, 4-C, 5-C, 6-B



The ARRL Letter  
Vol. 20, No. 47  
November 30, 2001

Starshine 3 is now SO 43: AMSAT-NA Board Chairman Bill Tynan, W3XO, has announced that the recently launched Starshine 3 satellite has met all the requirements for an OSCAR number and has been designated Starshine OSCAR 43 (SO-43). Starshine 3 is a mirror ball with AX.25 9600-baud telemetry on 145.825 MHz. The satellite is visible to the eye and will provide students the opportunity to participate in its primary mission of satellite tracking. More information about the Starshine project can be found on the Starshine Web site <<http://www.azinet.com/starshine>>.—AMSAT News Service



The ARRL Letter  
Vol. 20, No. 48  
December 7, 2001

==>TAKE A NUMBER: FRN NOW MANDATORY  
Anyone filing an Amateur Radio application now will be asked to supply a 10-digit FCC Registration Number (FRN) issued by the FCC's new Commission Registration System, or CORES. The requirement applies to FCC applications filed on-line or on paper. The FCC also has supplanted Universal Licensing System (ULS) registration with "CORES/Call Sign" registration, so applicants no longer need to register separately in both systems. Most, if not all, hams who registered previously with the ULS already have an FRN, although they may not know it yet. The FCC just completed another cross-registration to include those already on the ULS books within the CORES "entity registration" database, and another is scheduled. Amateurs can learn their FRNs by doing a license search on the FCC's Universal Licensing System page <<http://wireless.fcc.gov/uls/>>. FRNs also are displayed via the ARRL call sign server on ARRLWeb <<http://www.arrl.org>>. The FCC has updated its ULS page <<http://wireless.fcc.gov/uls/>> to reflect the new reality and to make the page a bit less confusing. Amateurs not yet registered in CORES who click "CORES/Call Sign" registration will be redirected to the CORES site to complete that process. Amateurs who click "Online Filing" are advised to proceed to CORES to register if they do not already have an FRN, then return to ULS for filing. Those filing on-line applications now are asked to supply either an FRN or a Taxpayer Identification Number (TIN—a Social Security Number for an individual) plus a pass-

word, typically the same for both CORES and ULS. The process is a bit more daunting for new club station applicants, who now will be asked to register in CORES as business entities. Such applicants also may file with a Club Station Call Sign Administrator using Form NCVEC 605 and simply leave the FRN field blank. ARRL VEC Manager Bart Jahnke, W9JJ, says that in those cases, the Club Station Call Sign Administrator (CSCSA), such as ARRL, will register the club station entity in CORES on the applicant's behalf. The FCC also now only accept FCC Form 159 (Remittance Advice) dated February 2000 or later, which requires providing an FRN. A copy of the acceptable version is available on the FCC Web site <<http://www.fcc.gov/fees>>. At the left side of the page, click on "Form 159". For more information about the Commission Registration System or on obtaining an FRN, contact the CORES Help Desk, 877-480-3201, [cores@fcc.gov](mailto:cores@fcc.gov).

#### ==>NEW AMATEUR EXTRA CLASS QUESTION POOL RELEASED

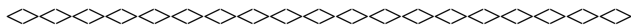
The National Conference of Volunteer Examiner Coordinators' Question Pool Committee has released a revised and expanded Amateur Extra class (Element 4) question pool into the public domain. The new question pool becomes effective July 1, 2002, and must be used to generate all Extra class written examinations administered on or after that date. It replaces the Extra class question pool released April 15, 2000—the day Amateur Radio "restructuring" became effective. The new Element 4 pool expands the number of questions by more than 20 percent--806 questions—as opposed to 665 in the current Extra class pool, and it contains more technical material. More than half of the questions cover electrical principles, circuits, signals and emissions. The 50 questions in an Extra class examination are drawn from the question pool consistent with FCC rules and according to a formula that specifies the number of questions to be asked from each of nine topic areas. Applicants must correctly answer at least 37 questions to pass. The new Element 4 question pool is available on the ARRL Web site <<http://www.arrl.org/arrlvec/pools.html>>. The just-released Extra class question pool remains valid through June 30, 2005. The Question Pool Committee now will turn its attention to developing an outline for the Technician class (Element 2) question pool. A draft Element 2 syllabus is scheduled for public release and comment next spring. The QPC invites suggestions for the Element 2 syllabus and question pool

*(Continued on page 5)*



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revision. Questions and comments about the QPC's work can be directed to, Chairman Scotty Neustadter, W4WW, w4ww@arrl.net; ARRL VEC Manager Bart Jahnke, W9JJ, vec@arrl.org; Fred Maia, W5YI, w5yi@w5yi.org; and John Johnston, W3BE, johnston.john1@worldnet.att.net



The ARRL Letter  
Vol. 20, No. 49  
December 14, 2001

**==>AMATEURS RESTORE CITY'S POLICE, FIRE DISPATCHING**

Volunteers from the Tulsa Amateur Radio Club helped to restore police and fire dispatching service in Collinsville, Oklahoma, after flames destroyed the city's radio gear and disrupted 911 service December 1. The early-morning fire badly damaged the 88-year-old Collinsville City Hall, which housed the community's police and fire departments and other offices. "The city's communication system was functioning, but 911 calls were re-routed to a nearby city, because all the dispatch equipment was lost in the fire," said Oklahoma ARRL Public Information Coordinator Mark Conklin, N7XYO. Even the antenna was lost. As a result, the city had to find a temporary home for police and fire dispatch. Collinsville, a community of some 4000 people, is located about 12 miles north of Tulsa. Conklin says Collinsville arranged to set up its dispatching center in the Collinsville Rural fire station. Area amateurs alerted to the devastating fire quickly responded to help, and Tim Diehl, KB5ZVC, notified ARRL Oklahoma Section Manager Charlie Calhoun, K5TTT. TARC Public Service Liaison Dan Lamoreaux, WG5Z, rounded up Gregg Wonderly, W5GGW, Dave Smith, KD5OIJ, and Tom Roininen, KB5HMZ, as additional volunteers. The volunteers brought the club's portable repeater system, which had been built using commercial radio equipment converted for amateur use. Conklin says the amateurs reprogrammed the repeater for the police and fire departments to use as an emergency dispatch radio. "By 9 o'clock that evening all systems were totally operational and police and fire dispatching was being handled though the club's loaned radio equipment," Conklin said. Established in 1924, the Tulsa Amateur Radio Club is the state's oldest ham radio club. It operates the W5IAS linked repeater system and its members are active in public service.—Mark Conklin, N7XYO/TARC

The ARRL Letter  
Vol. 20, No. 50  
December 21, 2001

FCC turns down request for special Winter Olympics prefix: The FCC has denied a request from a Utah amateur to permit hams in that state to identify using a special prefix during the upcoming Winter Olympics in Salt Lake City. D'wana R. Terry, chief of the Public Safety and Private Wireless Division within the Wireless Telecommunications Bureau, told Thomas M. Schaefer, NY4I, that his request was "inconsistent with the international Radio Regulations" and could not be granted. Schaefer had asked the FCC to authorize hams in Utah to substitute the numerals "02" or "2002" for the numeral "7" when identifying on the air (Schaefer, with a numeral "4" in his own call sign could not have taken advantage of his own proposal, had it been granted). He noted that a similar waiver of the FCC's rules was permitted in 1996 for the Atlanta Olympics. Terry pointed out that the special temporary authority granted for the Atlanta games covered all amateurs in Georgia, while Schaefer's proposal for the Salt Lake City games would only cover hams with a numeral "7" in their call signs. She said rules applying to waivers have changed significantly since then, and Schaefer's request doesn't fall under the newer guidelines. She recommended hams take advantage of the special event call sign system or the provisions of Section 97.119 © of the rules, which permits the use of self-assigned indicators.



**BARC Club Meeting!!!**

**New Year, Great New Things To Do!**

Come join in all the fun, the 2nd Thursday each month!

Next meeting: 7:30 p.m. 10 January 2002

Meetings held at Hyde Park City Offices



It may be cold out there, but come in where you can warm up the ideas and have a great time!

**Join us at club meeting**

## Questions for General Class License

- 1.(G1A06) What are the frequency limits for General class operators in the 15-meter band?  
A. 21025-21200 kHz & 21275-21450 kHz  
B. 21025-21150 kHz & 21300-21450 kHz  
C. 21025-21150 kHz & 21275-21450 kHz  
D. 21025-21200 kHz & 21300-21450 kHz
- 2.(G1C07) What is the maximum transmitting power an amateur station may use on 7105 kHz?  
A. 200 watts PEP output  
B. 1000 watts PEP output  
C. 1500 watts PEP output  
D. 2000 watts PEP output
- 3.(G1E04) What name is given to a form of interference that seriously degrades, obstructs or repeatedly interrupts a radiocommunication service?  
A. Intentional interference  
B. Harmful interference  
C. Adjacent interference  
D. Disruptive interference
- 4.(G4E05) Which of the following most limits the effectiveness of an HF mobile transceiver operating in the 75-meter band?  
A. The vehicle's electrical system wiring  
B. The wire gauge of the DC power line to the transceiver  
C. The HF mobile antenna system  
D. The rating of the vehicle's alternator or generator
- 5.(G8B08) How is frequency shift related to keying speed in an FSK signal?  
A. The frequency shift in hertz must be at least four times the keying speed in WPM  
B. The frequency shift must not exceed 15 Hz per WPM of keying speed  
C. Greater keying speeds require greater frequency shifts  
D. Greater keying speeds require smaller frequency shifts
- 6.(G9B03) Approximately how long is each side of a cubical-quad antenna reflector element for 29.6 MHz?  
A. 8.23 feet  
B. 8.7 feet  
C. 9.7 feet  
D. 34.8 feet

**THE OHM TOWN NEWS  
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***January, 2002***

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