

Debra Johnson K1DMJ, Editor

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## Update on Licensing Resource Projects

A new Instructors Manual that will include lesson plans and a CD with PowerPoint slides to assist with instruction of General Licensing and Technician Licensing content is in the final stages of layout and production. This product will be available during the first quarter of 2008.

We've encountered significant delays with the Technician License Instructional Video. Script writing is near completion and production will begin in January. We are working toward delivery in the spring.

I know many of you are waiting for these products to enhance your licensing instruction. Please be assured that we are moving them forward as fast as we can with the resources at our disposal.

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## Contact Frequencies for Schools, Kids

Teachers and Scout leaders and others who are working with kids and amateur radio have been telling us that it can be difficult to find another school or group of kids to talk to. Scheduled nets are pretty difficult to arrange with kids amid all of the conflicts that arise during school days and after school. To help you find each other, we suggest some meeting places on the bands where kids and teachers and youth leaders can look for a contact. If we get the word out to enough of you, perhaps we can make these band locations a destination for kids looking to share a conversation with other kids somewhere across the country. These bands are available to those with the appropriate license privileges, or kids under supervision of an operator with those privileges.

We picked these locations to become youth hot spots:

40 meters: 7,180 kHz

20 meters: 14,270 kHz

10 meters: 28,333 kHz

Brian Lloyd from Granite Bay Montessori School suggests we add destinations on 30 meters for CW and other digital modes and 17 meters. Let's try these:

30 meters: 10,125 kHz

17 meters: 18,120 kHz

I hope you'll find a way to join Brian and his 5<sup>th</sup>-8<sup>th</sup> grade wireless technology students on the air! [Top of page](#)

## Resources for Licensing Instructors

<http://www.arrl.org/es/instructor-resources/>

## Resources for Teachers

<http://www.arrl.org/FandES/ead/teacher/>

## Education & Technology Program:

<http://www.arrl.org/FandES/tbp/>

## Teachers Institute on Wireless Technology:

<http://www.arrl.org/FandES/tbp/ti.html>

## ARISS Program

### FAQs:

<http://www.rac.ca/ariss/faqariss.htm>

### Application:

<http://www.rac.ca/ariss/arissapp.htm>

## Continuing Education Program

<http://www.arrl.org/cce/>

## Contact Us

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## Southwest High School talks to Cape Town on IRLP

Jeremy Smith, teacher at Southwest High School in Lincoln Nebraska, reports that things have gotten off to a busy start this school year. He has two Japanese classes and one German class who are very excited about talking over IRLP.



Jeremy decided to set up two rigs for IRLP on 2 meters and 440.

He set up one IRLP node on 2m-simplex and encountered many computer problems. Working with a local operator, KORPT, who owns multiple repeaters, Jeremy reports that together they have set up a 440 repeater to be

dedicated to Southwest and its IRLP node. "It's set up and running 440... BEAUTIFULLY," he adds!

Future plans include having students tear apart old machines, build a computer, setup the board, radio, etc, etc. The object is to give students the experience of building a node.

Some students came in early before class one day to talk with Cape Town South Africa (ZR1DS, ZR1AAH) and then after school some older kids jumped on 9250 (with Alaska, Utah, Georgia). The photo is from one of those sessions.

Jeremy attended ARRL's Teachers Institute in 2006 and has received a radio station equipment grant through ARRL's Education & Technology Program. [Top of page](#)

## Pueblo Magnet High School Contact with ISS—Magical!

"We had our 9.3147234 minutes contact with Clayton Anderson aboard the ISS this morning and it was faultless. We had 29!!!! students from 2 elementary, 1 middle school and Pueblo High School that participated in the QSO. In addition, we had 36 visitors and guests at the QSO, along with the media. Needless to say, it was a great day for amateur radio today... There is nothing like the look of success on the faces of my students and today was their day!" This is the report received from Miguel Enriquez, KD7RPP on September 21 following the school's contact with the space station arranged through the ARISS program.

A month later Miguel followed up with this report, "Thank you for what you do for our students; your investment in them is bringing compounded returns. After our ARISS QSO, our students showed off their ATV skills at a local hamfest. Hams with 40 years experience who had heard about ATV but knew little of it, got excited to see our kids demonstrate ATV. Our kids got a feeling of accomplishment that shone

on their faces like light from a star.”

I think that says it all Miguel, thanks for the report!

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## Interested in an ISS contact? Now's the time to apply!

*By Rosalie White, K1STO*

A record number of ARISS school contacts have been performed thus far in 2007, 74 to be exact. That is nearly twice the amount of school contacts that astronauts and the ARISS Team handled in previous years!

This 2007 Amateur Radio activity was led by the energetic participation of astronauts Sunita Williams, KD5PLB, and Clay Anderson, KD5PLA. They have significantly reduced the backlog of schools waiting for a contact. Though the ARISS Team's expectations are a little lower for being able to achieve this level of contact activity in 2008, this is a good time to file an application and begin making preparations.

The ARISS school application, instructions for completing and submitting it, and an FAQ can be found at: <http://www.rac.ca/ariss/arissapp.htm>. You will find that one portion of the application asks you for a few paragraphs about the robust educational activities that you hope to complete revolving around the school contact. These would be lessons the students would take part in before, during and after the school contact. If you need ideas, you can get lesson plans related to ham radio, technology and space from the program from the ARRL website at <http://www.arrl.org/FandES/tbp/>, or you can contact ARISS volunteer Rita Wright, KC9CDL, for space-related lesson plans at [wright1365@sbcglobal.net](mailto:wright1365@sbcglobal.net).

If all goes as planned, in October 2008, astronaut Mike Fincke, KE5AIT, will become a resident aboard the International Space Station (ISS) as commander of Expedition 18. He tremendously enjoyed his ham radio activities with schools and hams during his last mission, Expedition 9, aboard the ISS. Mike has even said he is willing to devote some of his scheduled weekend relaxation time to school contacts. Expedition 18 runs from October 2008 to April 2009. [Top of page](#)

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## Vinton School Radio Clubs Recognized by School Board

*By David R. Jones, Jr.*

The William Byrd High School and the William



Byrd Middle School Amateur Radio Clubs, their members and volunteer advisors were recognized by the Roanoke County, Virginia School Board at the Board's October 24, 2007 meeting. The two Clubs were acknowledged for their successful programs in educating students about radio, electronics and communications and for their two First Place wins in the October 2006 School Club Roundup and second place finishes in the February 2007 Roundup. The High School operates as WB4HS and the Middle School as K4WBM. Both schools are recipients of ARRL Big Project grants.

School Board Chairman Marion Roark welcomed the volunteers and student representative to the meeting. Michael Stovall, board member from the schools' district, presented the first place certificates. Present representing the Middle School were Principal Janet Womack and club advisors Doug Moore - K4WVS and Charlie Draper - AB4SK. From the High School were Principal Dr. Richard Turner - KZ4VT, advisors Ron Ramsey - AB4A and Phil Roark - K4WFO along with student club president Catherine Jones - KI4EVA. Jones, a High School senior, was among the first group of students in the Middle School program to get their licenses while in Middle School. [Top of page](#)

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## Extra Class License Study Guide Scheduled for Revision—Users Surveyed

In our continuing effort to improve the licensing study materials we provide, we recently sent an e-mail survey to purchasers of our Extra Class License Manual. The purpose of the survey was to collect information that will guide the development of our next Extra Class study guide. The Extra Class question pool is currently under review by the Question Pool Committee, of the NCVETC. The Committee is expected to release a new question pool at the end of this year, to be effective July 1, 2008.

As an Extra Class License instructor, if you have specific comments or changes you would like to recommend on the structure, format or content of the Extra class manual, please send them to me at [djohnson@arrl.org](mailto:djohnson@arrl.org) by December 15. Ward Silver, NOAX, has been engaged to write the new Extra Class study guide, completing the full series of manuals under his authorship. [Top of page](#)

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## Expansion of the Teachers Institute Planned for 2008—Instructors Needed!

Teachers who have participated in ARRL's popular summer professional development workshops, the ARRL Teachers Institute on Wireless Technology, continue to spread the word about this exceptional experience and the unique value that amateur radio and the wireless technology curricula bring to their classrooms. The Teachers Institute is one outreach component of ARRL's Education & Technology Program, which has received strong donor support to bring amateur radio and the

exploration of radio science to schools and classrooms. Building on our success, we are making plans to expand the Teachers Institute next year. Contingent on funding, we plan to offer six four-day sessions in 2008 to provide opportunities for 72 teachers, and we're looking for additional qualified instructors to support this expansion of the program. Tentative dates for the 2008 sessions include July 28-31 and August 4-7 at ARRL headquarters and June 16-19 in Rocklin, CA. Dates and locations for the remaining three sessions have not yet been finalized.

The Teachers Institute Instructor position is a part-time contract position that will require lead instruction at a Teachers Institute workshop during the Spring/Summer of 2008 as a paid associate instructor, under the direction of the Teachers Institute Program Manager. Successful performance may lead to a follow-on contract to provide continuing teacher support throughout the year as well as instruction at future Teachers Institutes.

Qualifications include:

- Current teaching credential or equivalent college/university teaching experience.
- Experience with using ham radio in a school curriculum.
- Extra class license
- Extensive familiarity with electronics and wireless technology
- Flexibility to connect with teachers who work in a variety of classroom environments and present a range of age and teaching experience

If you are interested in applying for this exciting opportunity, please visit the [information page](#) to learn more about the positions and application instructions. [Top of page](#)

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## Mentors Needed for ARRL Continuing Education Program

ARRL offers on-line enrichment courses in areas of interest related to amateur radio. This includes courses on Antenna Modeling, RFI, Antenna Design and Construction, intermediate courses in Analog and Digital Electronics, as well as courses on Propagation, HF Digital Communications, and VHF/UHF communications ("Beyond the Repeater").

We are looking for individuals with appropriate background experience and knowledge to serve as mentors supporting students enrolled in these courses. Course descriptions can be found at <http://www.arrl.org/cce/>. Student activities and assessments are managed through a web-based learning platform and communications with students are conducted through e-mail. A small stipend is offered to offset any incidental costs related to providing mentor support. Mentoring commitments extend through the course duration, which may be 8, 12 or 16 weeks, depending on the course.

If you have some time to invest in what can be a mutually rewarding experience for both student and mentor, please send a description of your experience or background in the topic area(s) of interest, including

any experience with training or teaching and an indication of your time availability to Jennie Davis, Continuing Education Program Administrator, at [jdavis@arrl.org](mailto:jdavis@arrl.org).

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## VEC Activity Report

ALL VEC ACTIVITY	Jan 1 to Oct 31, 2007	Jan 1 to Oct 31, 2006
LICENSE TYPE	LICENSE COUNT	LICENSE COUNT
EXTRA CLASS LICENSE	5369	2597
GENERAL LICENSE	19355	3364
TECHNICIAN LICENSE	20674	17012
<b>TOTAL</b>	<b>45398</b>	<b>22973</b>

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Note that you must be logged in to the site to access this page. Scroll down to the section "Which of the following would you like to receive automatically via email from ARRL?" Check the box for "ARRL Instructor/Teacher E-Letter " and you're all set.

Past issues of this newsletter are available at <http://www.arrl.org/FandES/ead/instructorNews.html>. Issues are posted to this page upon publication.