



Seeing Stars?

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GARA Elections coming soon ... Please volunteer to serve!



Celebrating 20 years ...

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The Greensboro Amateur Radio Association

Feed Line

Providing Amateur Radio news for the Triad



Volume 16, No 10

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Son Follows in Father's Tradition - Space

From the ARRL

Richard Garriott, KE5QNX, son of Owen Garriott, W5LFL, will be launching into space and living aboard the International Space Station in October 2008 as a client of Space Adventures.



Richard Garriott
KE5QNX

Owen Garriott operated the world's first Amateur Radio Station from space, W5LFL, as part of the Spacelab mission on the space shuttle Columbia (STS-9) in 1983;

he is on the Astronaut Advisory Board of Space Adventures. Space Adventures is a company that allows private citizens the chance for space travel on Russian Soyuz spacecraft at an estimated cost of \$30-55 million per person. Richard, who is Space Adventures vice chairman, has applied for his grandfather's call sign, W5KWQ.

Richard will be the sixth private citizen to venture into space. According to his Web site, his "main objective for his mission is to encourage commercial participation.

By fostering the involvement of individuals, companies and organizations in his spaceflight Richard hopes to demonstrate that there is

commercial potential in private space exploration, while furthering the understanding of space. Richard plans to demonstrate this by taking on various commercial projects, corporate sponsors for his mission activities and by helping companies market their products through their association with an actual space mission."

A self-described experienced terrestrial explorer - "I have traveled to all seven continents on adventures that have included tracking mountain gorillas in Rwanda, canoeing down the Amazon, diving in a submarine to the Titanic and trekking Antarctica in search of meteorites" - Richard says on his Web site that he is excited about his trip into space. "Journeying to space has been a dream of mine since I was young. So for me, space exploration was tangible, it was part of my family's DNA. But I was also acutely aware of the costs and complexity that kept it under the purview of the government.

There was no imaginable way I was going to get a front-row seat like my father." Richard, 46, is the first American second-generation astronaut. In Russia, Sergey Volkov, 34, a pilot, is set to fly to the ISS as commander next spring. His father, Aleksandr, rocketed into orbit in the 1980s and early 1990s.

The first commercial research partner involved in Richard's space mission is ExtremoZyme, Inc, a biotechnology



Owen Garriott operated the world's first Amateur Radio Station from space, W5LFL, as part of the Spacelab mission on the space shuttle Columbia (STS-9) in 1983. (From ARRL)

company co-founded by his father. According to his Web site, "Richard will operate an ExtremoZyme protein crystallization experiment loaded with proteins, many of which have important cellular functions and are often associated with common human diseases. Having access to these superior crystals will enable researchers to learn more about the molecular structure of these proteins, which is essential for protein engineering and drug design."

NEXT MEETING

The next meeting of the Greensboro Amateur Radio Assoc. will be October 22, at the Golden Corral Steak House, 4404 Landview Dr, Greensboro, NC 27407, off Wendover Ave, near Sam's Club.

GARA Meeting Minutes



Regular Meeting Minutes September 24, 2007

The regular monthly meeting of the Greensboro Amateur Radio Association was held on Monday 9/24/07 at the Golden Corral Restaurant on Landview Dr.

The Meeting was called to order at 7:15 PM by President John Doggett, KI4BMS. John then asked everyone to introduce themselves.

John spoke about the BBQ picnic and stated that if you were not there then you sure missed a great time.

The minutes from the last meeting were approved.

Ernie Wall, NC4EW, gave the treasury report stating that we are in good shape and that he has paid the SERA dues this month.

Al Allred, K4ZKQ, gave the financial report and said we are slightly ahead on income and below on expenses than what was forecast.

Roy Smith N4BYU Said it is time to nominate new officers for the club and asked for volunteers for a nominating committee.

Tom Forrest, N4GVK, needs articles

The Greensboro Amateur Radio Association

President: John Doggett, KI4BMS
Vice-President: Chris Thompson, K4HC
Treasurer: Ernie Wall, NC4EW
Secretary: Greg Spencer, KG4UQV
Financial: Al Allred, K4ZKQ
Engineering Chairman: Carlton O'Rork, N4DFA
Operations: Roy Smith, N4BYU
Members at Large: Clark Doggett, KG4HOM
Tom Forrest, N4GVK
Appointed Positions:
News letter editor and Webmaster:
Tom Forrest, N4GVK

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for the Feed Line and web site. Tom said he received a phone call from the Greensboro Historical Museum, which currently has the bill of rights on display. The museum was inquiring about whether we would like to tour the museum as amateur radio fits in with the free speech part of the bill of rights.

Roy Smith, N4BYU, requested volunteers for the nominating committee, Dave Touvell, KN4ZO and John Ferrell, W8CCW. Elections will be held in November.

The annual Mt. Mitchell trip will be on October 13. Meet at K&W on Big tree way at 8:00 AM. The Jamboree On The Air will be held on October 22.

Allen Bradley KD4IUN asked for volunteers for the soccer tournament on November 17 & 18.

Charles Lyons, NT1J/EI7JV, gave a great presentation about Ireland.

The meeting closed at 8:25PM Respectfully submitted by Greg Spencer KG4UQV, GARA Secretary

Board Meeting Minutes September 10, 2007

The G.A.R.A Board of directors held their monthly meeting at the Summerfield Community Center on September 10, 2007. Members present were: Ernie Wall, NC4EW; Carlton O'Rork, N4DFA; Roy Smith, N4BYU; John Doggett, KI4BMS; Clark Doggett, KG4HOM; Tom Forrest, N4GVK; Al Allred, K4ZKQ; Chris Thompson, K4HC and Greg Spencer, KG4UQV.

Visitors were: Bob Mays, K4MOW and Alan Bradley, KD4IUN.

John, KI4BMS, called the meeting to order and asked for approval of last months minutes, which were approved.

Bob Mays, K4MOW, has proposed that the club purchase and install a Davis wireless weather station at the Justice center on Coliseum Blvd. This would be essentially a Thank You gift to the city for allowing the club to use the tower and

space in the equipment building for our repeaters. The cost for the equipment will be about \$535.00 for the basic system. A heated rain gauge and weather display software would cost extra.

Some questions that were raised were; is there a need for a weather station at the justice center? If there is a need for a weather station, will the city provide a computer to run the display program? John, KI4BMS, proposed a motion that Bob, K4MOW, do the legwork and talk to the city then report back to the board, Chris, K4HC, seconded and the motion was approved.

Bob, K4MOW also stressed that GARA needs to maintain full control over the repeaters at all times. Chris K4HC proposed a motion that we change the security codes within one week's time from this date, Roy N4BYU seconded it and it was approved.

The license agreement for the repeater control program developed by Arch, KT4AT, was reviewed by the board and discussed. Chris, K4HC proposed that we accept the license, Roy, N4BYU, seconded and it was approved.

Carlton, N4DFA, gave a report about his future involvement with the engineering committee in which he stated that he does not intend to be a part of the engineering committee for 2008, as he needs to devote more time to other matters. Carlton said that he would assist the new chairman as much as he can to get him started.

Allen Bradley, KD4IUN, talked about filling out a report with the ARRL, about our soccer involvement with information about man-hours, personal equipment cost and repeater value.

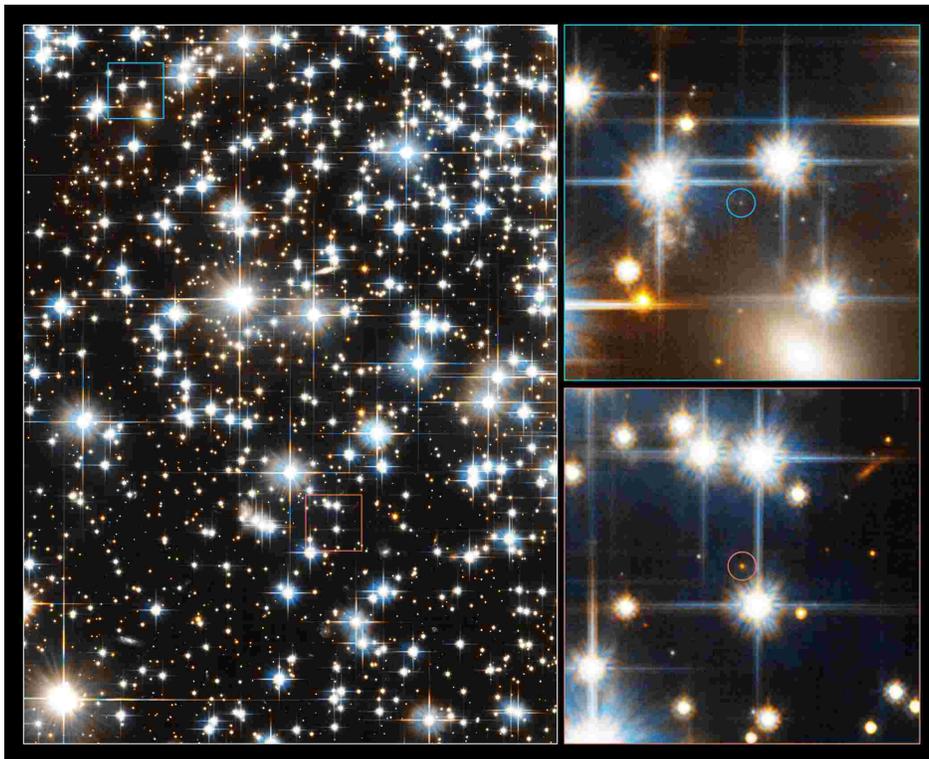
Ernie NC4EW said that the treasury is in good shape.

Al KZKQ said the finances are close to the forecast.

John, KI4BMS, said he would like the club to support ARES and make a donation to cover the web site cost. This was tabled

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Faintest Stars Ever Seen Using NASA's Hubble Space Telescope



An international team of astronomers has uncovered the faintest stars ever seen in any globular star cluster. Using NASA's Hubble Space Telescope, the team took hundreds of high-resolution photos that were then radioed back to Earth.

The astronomers then compared the images pixel-by-pixel to identify the dimmest stars in the globular star cluster NGC 6397.

The researchers say that the light from these faint stars is so dim that it is equivalent to that produced by a birthday candle on the Moon, as seen from Earth.

The images here are from the Hubble Space Telescope courtesy NASA/ESA Hubble Space Telescope, European Space Agency.



Get Well ...

Rusty Hughes, WA4SAD, is still undergoing treatments at Baptist Hoispital.

Darrin Peach, WD4DLP, is scheduled for heart surgery in October.

Please keep all these fellow amateurs and families in your prayers.

Hams To Head Operations At Two NASA Centers

Veteran astronaut Ellen Ochoa, KB5TZZ, who has been named Deputy Director of NASA's Johnson Space Center. Ochoa has served as Director of Flight Crew Operations at Johnson. She will succeed Bob Cabana, KC5HBV, who was named Director of NASA's Stennis Space Center in Mississippi.

According to an ARRL release, Ochoa and Cabana have each flown in space four times. Ochoa flew on space shuttle missions STS-56 on Discovery in 1993, STS-66 on Atlantis in 1994, STS-96 on Discovery in 1999 and

STS-110 on Atlantis in 2002, logging a total of 978 hours in space.

She became Deputy Director of Flight Crew Operations at Johnson in December 2002 and Director of Flight Crew Operations in September 2006.

Cabana has logged more than 1010 hours in space. He served as pilot on STS-41 in 1990 and STS-53 in 1992, both on Discovery. He was mission commander on STS-65 on Columbia in 1994 and STS-88 on Endeavour in 1998, the first International Space Station assembly mission. (ARRL, NASA)

1939 Movie Promotes Ham Radio In the Early Days

A film from Metro Goldwyn Mayer that promotes Amateur Radio has surfaced on the Internet. Produced in 1939 by Pete Smith, "Radio Hams" centers on a family called to dinner. All but the teenage son respond.

When family members go looking for him, one by one they are snared into a

world of ham radio high adventure - one that includes a rescue in Alaska and a tragic search for a downed aircraft at sea.

Unlike most films promoting ham radio, this one is not a documentary. It's a fully scripted 10 minute dramatic presentation, featuring a cast

of professional actors well directed by Felix Fiast. E. Maurice Adler is credited with writing the screen play.

"Radio Hams" is really a nostalgic look back at ham radio the way it never was. You can see it on-line at:
<http://www.youtube.com/watch?v=vBGIdf0VjQ4> (YouTube)
(AR News Line)

Thursday Lunch Group Celebrates 20th Anniversary

By Don Harris, W4BUZ

It was the last Friday in September of 1987 when Al Troxler, WA4REX, called me on the 147.21 Mhz. repeater and wanted to come by, pick me up and go to the K&W Big Tree Way Cafeteria for lunch. I had just retired from the Burlington Industries Corp. Engineering Dept., was home, and didn't have to work that day. Al was working for an auto parts sales house at the time and was working the west side area of Greensboro, so it was an idea he had in his mind out of the clear blue for us to go to lunch.

Other repeater users called in and asked if they could join us. We said, "yes", and that is how these luncheons started. We continued the Friday luncheons weekly and more repeater users joined us. The group grew over time. Therefore, Al Troxler, WA4REX, was the true originator of these luncheons.

For those of you who never knew Al, I met Al, when I went to work for WCOG AM Radio Station in Greensboro as Engineer. A part of my job in keeping the transmitter on the air between 6 PM and Midnight was to be Al's Control Operator for the Sky Castle Radio Show which originated at McLure's Drive In Restaurant on High Point. Al played records for the young folks eating below his Sky Castle building high above McLure's Drive In

Restaurant. There was a telephone (remote broadcast) line that carried the signal from Al's broadcast console to the WCOG control room.

Al had a news teletype machine at his end of the line which allowed him to do the news. It was my job to play the commercials from tapes and discs, do the weather, put network newscasts on the air, record preachers in the studio, read the transmitter meters and keep it all on the air. I quickly learned how to read Al's mind because that was a must to know what he was going to do next and keep it all flowing nicely. We did show stoppers which are sound inserts of funny sayings that fit the occasion, etc., to make it all more friendly and appealing.

We both had lots of fun doing the show and we became very good friends. Al obtained his Technician Class amateur radio license in 1960 and became a regular at the Greensboro Radio Club, Inc. Friday night meetings. Al operated from his home at Browns Summit and from his mobile. He served as Club Secretary for many years.

Later, Al became manager of WCOG and served in that capacity until it was sold. I do not remember the year. Then, he went to work in automotive parts sales

for a company he had sold radio advertising to for many years. Al died in late April of 1997 but attended our luncheons every Friday regularly until then. After Al's death, the luncheon group decided it would be better to move the luncheon to Thursdays and avoid the long lunch line on Fridays. That worked our real well, too. The luncheon usually has 8 to 15 attendees.

Our group is not an organization, there are no officers elected or otherwise and there are no dues. We are a group who like each other and we come to be together each week largely because it is the closest thing to the fellowship we used to have at the old Greensboro Radio Club on Fridays nights. We attend because we want to. You do not have to be an amateur radio operator to attend.

Keith Stamey, the barbecue executive, attended for years. He loved electronic organs, computers and music, for example. We welcome newcomers. Check the E-mail listing to see who may show up. Let us hope the luncheons will still be going 20 years from now but old BUZ would have to live to be 95. Weldon Fields, W4AJT, is 93, I believe, so it just might be possible. Why not go for it. Weldon comes often, too.



AT THE PICNIC/BBO - Area Hams enjoyed home-cooked BBO and all the trimmings, Saturday evening, September 22 at the Doggett's home in Summerfield. Great fun, food and fellowship for all. Thanks a lot to the Doggett family for hosting the event .

Call Sign Update

The following shows the last call sign in each group to be assigned for each VE region under the sequential call system as of Sept. 14, 2007. For more information see the FCC web site at: <http://wireless.fcc.gov/uls>

District	Group C/ Technician	Group B/ General	Group A/ Extra
0	KDØBOO	++	ACØJH
1	KB1PKX	++	AB1HS
2	KC2SAL	++	AB2XN
3	KB3PRZ	++	AB3GG
4	KI4ZKF	++	AJ4BW
5	KE5QMK	++	AE5EL
6	KI6LSQ	++	AF6EO
7	KE7OTF	++	AD7FS
8	KD8GYM	++	AB8ZN
9	KC9MDS	++	AB9PI
N. Marianas	KHØTE	++	++
Guam	NH2FR	++	AH2DS
Hawaii	WH7HL	++	AH6SP
American Samoa	KH8DS	++	AH8Y
Alaska	KL2GY	++	AL2Z
Virgin Islands	NP2OG	++	KP2CU
Puerto Rico	WP4NVP	++	++

++ All calls in this group have been assigned

Information courtesy World Radio Magazine

Amateur Radio Classes Going Strong



Amateur Radio classes are going well with 22 students. Chris Thompson, K4HC, (GARA vice president), begins a lecture about radios and equipment. The class meets on Tuesday and Thursday evenings, and will conclude with a test session on Thursday, October 25. The classes are being held at the Guilford County Emergency Services and were organized by Steve Marks, KE4FCW and Don Campbell, KG4IYH, of Guilford County Emergency Management. Numerous fire/rescue, city and county officials are taking the course.

(GARA Photo | N4GVK)

For Sale From Estate

The following list of amateur radio gear of the late Bill Wray, K4BPH, which is being sold by his wife, Mary Wray. If you are interested in any of these items, you may contact Mary Wray at 674-0081 to make arrangements to see it or them.

- 1 Johnson Adventurer, \$100
- 1 Calrad Transistor Checker, (67-281), \$10
- 1 Rotator Mounting Plate, AS-25, for Rohn 25 Tower, \$15
- 1. Regency MR-10 Receiver, \$10
- 2 Coax Relays, coil voltage not specified, \$10 each
- 1 Recording Amplifier, Audio, \$15
- 1 AM/FM Tuner by Craftsman, \$15
- 1 Magnecorder Tape Recorder, \$15
- 1 Heathkit SWR Bridge # HM-2102, VHF, \$15
- 1 Cobra 19T Citizens Band Transceiver, \$10
- 1 Ray Jeff Marine Band Radio, #CB805, \$15
- 1 Radio Shack SA10 Stereo Amp., \$20
- 1 Micronta Power Supply, 12 VDC @ 8 AMPS., \$20
- 1 R/C Decade Box, \$15
- 1 Magnifier Light (clamp-on), \$5 each
- 1 ICOM IC-22A eq/with 19 crystals, \$40
- 1 MFJ Tuner, MFJ #989-B, Oct., 2005, price \$360, sell for \$100

- 1 MFJ VHF SWR/Wattmeter #MFJ812-B, \$20
- 2 Speakers, 6 Ohms, 5 watts, \$20 each
- 1 Simpson #260 Multimeter, \$15
- 3 Cassette Tape Recorders, no name, \$15
- 2 Clamp-On Desk Lamps, \$15 each
- 1 Receiver, no brand, 550 Khz. thru 10 Meters, \$15
- 1 Croftmon Audio Amp., 125 watt, 8-16 ohms, \$30
- 1 Roll RG-59/U Coax Cable, 100', \$10
- 1 AM/FM Stereo Tuner, (tube type), \$25
- 1 AM/FM Stereo Receiver, \$25
- 1 Hallicrafters SX-110 Receiver, \$100
- 1 Heathkit Receiver, 80 thru 10 meters, \$25
- 1 Hallicrafters Receiver, S38C, \$200
- 1 Heathkit Audio Generator, No. IG-5282, \$15
- 1 Swan 350 HF Transceiver, with 117-XC Power Supply for the xcvr, \$175
- 1 Vista Power Supply, regulated, 12VDC @ 8 amps., \$25
- 1 Calrad Power Supply, 12VDC @ 4 amps., Model 4573, \$15
- 1 30 Watt 4 Ohm Auto Speaker, \$10
- 1 Ten Tec Keyer, Model KR-5A, \$20
- 1 MFJ 8100 World Band Receiver Kit, \$50

These items are sold as is. This list was updated Monday, October 15

Museum Featured

The Southern Appalachian Radio Museum was featured on PBS, October 4th.

During the program local amateurs were featured at the museum demonstrating the old antique radios.

If you interested in visiting, the Southern Appalachian Radio Museum in Asheville, it's located in the campus of Buncombe Technical Community College and open on fridays from 1-3 pm. Their web site is www.saradiomuseum.org

If you'd like to read more, download the GARA Feed Line for March, 2007 at www.w4gso.org.

Missed the program? Give Tom Forrest, N4GVK, a call. (n4gvk@bellsouth.net) He has it on DVD.

Minutes from page 2

for further discussion.

Tom, N4GVK, spoke about the web site, he still needs articles.

Roy, N4BYU, told the board about, Tom, N4GVK, and he trying to help a couple in Jamestown that are hearing strange noises.

Area Activities

FOURTH MONDAY – at 6:30 PM, the **Greensboro Amateur Radio Association** have their regular monthly meeting at the Golden Corral, 4404 Landview Dr, Greensboro, NC 27407, off Wendover Ave, near Sam's Club. Please plan to gather at 6:30 PM for dinner. The meeting is scheduled to start at 7:15 PM

CLUB NETS:

SUNDAYS – weekly at 9 PM, the **GARA News and Information Net**. This net features NewsLine and is on the 145.150, W4GSO repeater. Roy Smith, N4BYU is always looking for net controls. Contact him if you would like to help.

THURSDAYS – The **Guilford County ARES Net** meets on the 145.150 repeater (100 Hz. tone) at 9 PM.

TUESDAYS – at 8 PM, the **2 Meter SSB Net** meets on 144.225 Mhz. USB. Chris Thompson, K4HC is the net control station.

WEDNESDAYS – The **Guilford Amateur Society** holds their weekly net on the 145.250, W4GG repeater with an 88.5 Hz. tone. Jim Hightower, W4JLH is the net control.

OTHER ACTIVITIES :

FIRST MONDAY – The **Guilford County A.R.E.S.** monthly meeting is held at 1002 Meadowood St. off W. Wendover Ave, in the EMS building, beginning at 7 PM.

THIRD MONDAY – at 6:30 PM The **Guilford Amateur Society** holds their monthly meeting at the Greensboro Police Western Sub Station at 300 Swing Rd in the community room. Refreshments at 6:30 PM and the business meeting begins at 7 PM.

SATURDAYS – at the K&W Cafeteria on Big Tree Way, hams get together for **Saturday Breakfast** at 7:30 AM. Talk-in is on the 145.150, W4GSO repeater, with 100 Hz. tone.

THURSDAY & FRIDAY – at 11 AM, Greensboro Hams get together for lunch. Thursday lunch group is meeting at the K&W Cafeteria off Big Tree Way and a Friday lunch bunch is at the K&W Cafeteria off South Holden Road. Talk-in is on the 145. 150, W4GSO repeater with a 100 Hz. tone.

EVERY FRIDAY – at 8 PM (approximately) Greensboro Hams get together for coffee at Guilford College (summer location till Daylight Savings time changes)

Greensboro Amateur Radio Association
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Web:
www.w4gso.org

FIRST CLASS MAIL