



THE OHM TOWN NEWS

Voice of the Bridgerland Amateur Radio Club

February 2005

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

HAM PROFILE

by Boyd Humpherys W7MOY

In searching for the shack (residence) of one of our new members, namely Jacob Anawalt, KD7YKO, we looked in vain for the tell tale 100' guyed tower, but alas, no such luck. We understand however that some of the new paints do very well in the "cover up" department. Jacob has had his tech license since August,



03, sports an Elinco HT, a mag mount for the chariot and a humble confession that the 100' tower was still in the planning stages. In lieu thereof,

an old standby J pole on the roof is doing the job. He & the good frau have been involved in a marathon, field day, and the annual pilgrimage to Jackson Hole.

He was born in the hamlet of SLC to the South, then moved to the metropolis of Rigby, ID, where he went to school, graduating from Rigby High School, class of 92. He served a mission for his faith in Minnesota, St. Paul to be exact, with sorties into Canada and such places as Thunder Bay, (get out your maps guys), which appears to be not very far from the lair of Santa Claus. Up there the temperatures get way below zero and the sun goes around in a circle on occasion. He served a one year basic training stint with the National Guard. After the frigid experiences in the Northland, back to balmy Cache Valley and two years at USU, studying Business Information Systems.

Somewhere along the line he and his brother managed a two week trip to the UK, the home place of his grandmother. When asked if he enjoyed driving on the

(Continued on page 4)

PRESIDENTS MESSAGE

It is hard to believe we are already to February. Can someone please slow down the clock. We had a great turnout for the January club meeting. Brett Sutherland did a great job talking about the ARRL official observer program. It was nice to see a couple of faces that we have not seen for awhile. I hope you all are ready for an exciting year. I realize with schedules, kids, hubby do's, and other assignments not everyone can make the club meetings. I know there was a time in my life that I needed to be somewhere else on Thursday nights, but I always appreciated getting the newsletter and learning what the club was up too. For this reason my message may be a bit longer. We have over 70 members of the club each year and we get 20 - 40 club members each month to club meeting. Some we only see at Field day, or during the events we help with like the Marathons, or Cruise-in. I would like to update those who are not able to make the club meetings on the progress of the club.

Club in General

The club is in good shape, both financially and activity wise. We have a good group of regulars who come out and join in on the fun. Because of some large donations from members in past years, we are fortunate to have a few thousand dollars in the bank. However every year we are dipping into that fund to take care of current expenses as needed, as we come close, but do not collect enough dues to cover everything. A few years back, the club found itself in the position of



having to pay for repeater site fees. Although a negotiated lower rate was obtained (thanks to Bill Neville), the \$600 we pay each year takes roughly 1/2 of our in-

(Continued on page 3)

UPCOMING ACTIVITIES

February 12, 10:00 A.M. - Club Meeting -
Mini Seminars - Club Budget to vote on

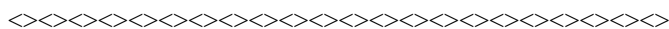
February 16, 7:00 P.M. -ARES/RACES Introduction Mtg

February 26, 8:00 A.M. - Swap meet at Utah
State Fairgrounds, The Zion Building

March 12 - Club Meeting - Bunny Hunt

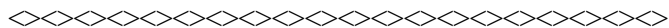
April 23 - Northern Utah Hamfest - Ogden

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



Wednesday February 16th 7:00 p.m.
Cache County Sheriffs Office, Room to be announced.
Introduction to ARES/RACES
Anybody with an interest in Emergency Communications
is invited to attend.

Thanx,
Tyler N7UWX
Northern Utah District EC
Cache County EC



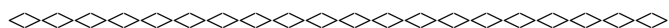
VE test sessions are your opportunity to become a ham,
or upgrade your current license. Exam sessions are held
in Logan every few months, *usually* the second Saturday
in March, June, September, and December. Other ses-
sions are held often in the region. It is possible to find a
test session every month somewhere in northern Utah or
southeastern Idaho.

Next VE Test Session in Cache Valley:

Date: **March 12 th 2005 - 8:00 AM**

Location: **Utah State University -
Old Main Building 4th Floor**

Contact: Heidi Black AC7ZC 753-7487
or Beanie Lofthouse KJ7LQ 245-6632
Cost: \$14.00



Answers to questions on page 6:
1-B, 2-A, 3-B, 4-B, 5-A, 6-B, 7-B

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(Presidents Message Continued from page 1)

come each year. In general the club members believe this is a great investment and something we need to continue with. The repeater site gives us coverage and linkage to the outside of cache valley.

There are several members who have donated a lot of time and equipment to keep the repeaters going and upgraded. We have been fortunate to have their great generosity. When I and other past presidents of the club have asked them for receipts for reimbursement, they refuse with a smile. We are very grateful for their contributions. Other hams give a great deal of time to make sure our activities and other events happen. This is a great blessing to the club. This past year has been exciting. We have several new members who have brought a great deal of enthusiasm to the club. We need to recruit more new members to the hobby so we can catch the enthusiasm again.

I wish also to thank all of you who pay your dues to support the club. Many of you we see every month and hear on the nets. Others of you we only see your checks. I want to thank you for your willingness to help keep the club going, the repeaters on the air, even when you are unable to participate with us. I hope everyone remembers that all donations to the club are tax deductible. From the IRS website you can search for eligible entities that are tax-exempt and we come up. So any donations of dues and other funds/equipment you donated to the club, are tax deductible.

Repeaters

The club continues to own and/or support several repeaters in the valley including the Mt, Logan system, Red Spur, Valley floor repeater, and the Promontory repeater. I have traveled a bit and I can say we have the best system around. Several years ago club looked to place a repeater up in Southern Idaho to give our repeater system some excellent coverage to the north. Approval was given, equipment was purchased, others were donated, but the project came to a halt because of a site issue. Some members of the repeater committee purchased equipment in good faith but have yet to be reimbursed by the club. Thanks to Bob Wood WA7MXZ another site has been found in this valley. Members of the club, and repeater committee have been listing ideas for this repeaters. There are some dead spots of the .72 along the east mountains, and there is interest from those involved in emergency communications to have a link into the Snow Bird system for RACES nets. Others would like to see the IRLP and ECHOLink systems tied into the repeater. There is the opportunity to do all of this with this new repeater system that would be located on the North East side of the

Valley. Consider it similar to a remote base. With a punch of DTMF pad, you could bring up the IRLP system, or tie into the Snowbird, and bring them down again. I think this would be a fun repeater to have, and would allow our new youth hams to have some fun. We need some funds from club members to finish this project and reimburse for equipment already purchased. We can and will use some reserve funds also.

It is also time to start thinking about replacing equipment on Mount Logan. I believe we should also start a campaign, perhaps next year to raise additional funds to replace equipment on Mount Logan, that is old. The repeater committee will have to work out a plan before we can move forward with this. I believe it is important to maintain our Mt. Logan 146.72 system so it can be called upon in an emergency situation. We will need it when all else fails or is overloaded.

Emergency Communications

I hear from several club members who do not participate with us because they want us to focus more on emergency communications. Others tell me that if we focus more on emergency communications they may not participate. We try to offer a balance at club meetings with a variety of topics. Recently we have been contacted by two groups who wish to involve ham radio operators in emergency communications. Efforts are underway to develop a plan to see how we can assist. There is great need for our communication skills in your community. One effort revolves around the CERT program and we are working in the county to set up some model programs that involve CERT and amateur Radio. Logan City is now interested in having Amateur Radio operators assigned to the schools to assist with communications from CERT teams to those local command centers. If you live in Logan and wish to participate, please let us know. If you are in another community and are interested in helping your community including the city station or working with CERT let us know. Tyler Griffiths is the ARES/RACES EC for the area. He will be getting some things going again starting in February.

Youth Efforts

Thanks to the vision and enthusiasm of Kevin Kessler KE7AAF, we have a effort going to get kids interested in Ham Radio through a 4-H club. We started in November, and will continue this year. It has been exciting to see a few teenagers get their license and get us all excited. Kevin is working on some other ideas that are really exciting.

Activities – Public Service Events

(Continued on page 4)

(Presidents Message Continued from page 3)

The club participates in several activities and public service events each year. What a great way to show the public and others our skills. What a great way to practice communications, and test those radios. Each event brings something new to it. LOTOJA was an interesting animal. Unfortunately some amateurs really get bent out of shape over it. It is just the nature of this event, were you can not predict, not even the communications on how it will go. But fortunately, I hope, we have not driven anyone off over it. I have always looked at LOTOJA as the closest thing to a disaster without being one. This year it presented some big challenges as the route changed, and the race got bigger. Some have questioned if we should do it anymore. If you have feelings either way, let a member of the board know.

We have been asked to participate in another event in June. A foot relay race from Hardware Ranch to Park City. A 24 hour event where we would need about 20 people or more in shifts. Tyler N7UWX is coordinating this event through RACES.

I hope you will look forward to Field Day again. We had a great year last year at the Holiday Inn. Well not quite, but hot water, showers, bunk beds, not bad if you ask me. I hope you will find time and sign up to help with one of these events. We may use a couple of these to help train the youth with communications.

Our February club meeting will feature several mini presentations on solar power, soldering of connectors etc. We will discuss the budget and repeater projects and then have our first bunny hunt. Get those antennas ready and see you on the air. Thanks for your support of the presidency and the board.

73,
Kevin

I have volunteered the help of our county ARES people to help out with the Wasatch Back Relay race. I expect the club will be involved too. The race is held on June 17th and 18th. It starts at Hardware Ranch, going down Black Smith Fork canyon, south from Hyrum through Paradise and up South Canyon and over to Liberty. From there it winds around here and there ending up in Park City. The only day we would be needed will be June 17th. That is a Friday! For more information look at <http://www.wasatchbackrelay.com/> This will be the first time they have used amateur radio for this event. They have previously used cell phones and FRS radios with out much success. More info will be available as we find out more.

Tyler

(Ham Profile Continued from page 1)

left side of the road or a mug or two of warm tea each morning, the chronicles are silent.

Now for the interesting part, Jacob and his spouse Anna Watkins, (of Mendon variety), attended this year's BARC Christmas gala, over in Lofthouse country, and guess who was the lucky recipient of a brand new HT? None other than Anna, who was shortly to become KE7CMJ. See what the influence of untold resources does for one, courtesy of the BARC mob and a few others. As was mentioned, Anna calls Mendon her home pad, where the sun regularly comes up at 5 am and goes down about 4. She graduated from Mountain Crest, despite the wintery blasts emanating from Blacksmith Fork Canyon. She manages a great home, with 3 harmonics regularly running the Indy 500 through the castle. Isaac, 5, Ethan 4, & Esther 1. There is a prospect of at least two more hams in the house with the boys calling CQ and handling plenty of DX on the FRS rigs. Start em early, that's the spirit.

Anna teaches piano and both are interested in Mtn. biking (with chains in the winter), skiing, and for Jacob, practicing on the PC and researching Ham Radio. Good on ya !!!

Jacob has been employed the last 4 years at Gecko Software, involved in Computer Programming, Server site applications, web page designs, and such things as charting software for those who want to take a peek at what tomorrow might bring. To guide in that field, their CEO is a visionary fellow by the name of Nostradamus who has had a pretty good track record so far.

73s & make way for the Anawalts, great additions to our diverse group.

February BARC Club Meeting:

The club meeting will feature Eugene Bodrero and Bob Wood. Eugene will show off some software tools he has developed for determining Solar power requirements. Bob Wood will demonstrate how to solder PL-259 connectors onto Coax cable. Paul Hoth will then give us instructions on the Bunny Hunt that will follow club meeting. We will also vote on this years budget.

Northern Utah Hamfest:

Sponsored by The Ogden Amateur Radio Club (OARC)
Location: Browning Armory, 625 East 5300 South,
South Ogden.

Date: Saturday, April 23, 2005
Starting Time: 8:00 A.M.

Bridgerland Amateur Radio Club
2005 Budget

Income		
	Members Dues	\$1,600.00
	Savings Account	\$1,360.00
Expenses		
	Club Fees	\$10.00
	Post Office Box	\$25.00
	Field Day	\$375.00
	Newsletter & Postage	\$200.00
	Socials and Refreshments	\$200.00
	Supplies	\$50.00
	Promontory site rent	\$600.00
	Repeater Equipment & upgrades	\$1,200.00
	Christmas Party	\$250.00
	Training Supplies	\$50.00
Total Budget	TOTAL	\$2,960.00
	*Contingency Fund	\$600.00

*Contingency Fund is set aside for emergencies, like equipment failure of a repeater that was not budgeted for or planned on. Because of the bylaws, the budget must be approved by members with a mailing of the Ohm Town News 10 days before voting/club meeting. The contingency fund allows the Club to tap funds held in reserve for these emergency or unforeseen expenses without the need to assemble the club members for voting again.

Bridgerland Amateur Radio Club
2005 Budget

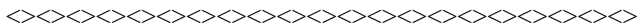
_____ I approve of the 2005 Budget

_____ I do not Approve of the 2005 Budget

Vote on February 12th at Club Meeting, or mail your vote to P.O. Box 111, Providence Utah
to arrive by February 12th. You may also send it with another club member.



Club Shirts: The club has a new logo and look, thanks to the efforts of Tammy Stevens N7YTO, our Vice President, the new logo rocks! Tammy is taking orders for shirts. They are \$21.00 which includes the logo. You may also bring her your own shirt you would like the logo placed on. Tammy will also be working on hats as well. Thanks Tammy!



**The ARRL Letter Vol. 24, No. 01 January 7, 2005
==>ARRL MAKES RADIO PUBLIC SERVICE
ANNOUNCEMENT AVAILABLE**

The ARRL has released a topical public service announcement (PSA) for use by radio stations. The 30-second PSA may be downloaded free from the League's Web site in either .wav <<http://www.arrl.org/pio/Allen-PSA0105.wav>> or .mp3 <<http://www.arrl.org/pio/Allen-PSA0105.mp3>> formats. "Ham radio works when other communications don't," is its central message. Conceived, written and voiced by ARRL Media and Publications Manager Allen Pitts, W1AGP, the PSA focuses on Amateur Radio's role in emergency communication—including activity by South Asia amateurs in the wake of the devastating earthquake and tsunami. "It is directed at getting people who are community-minded to look into becoming hams," Pitts commented. He urged ARRL Public Information Coordinators and Officers to aid in distributing the announcement to broadcasters. The PSA invites anyone interested in becoming a radio amateur to contact ARRL via its toll-free number, 800-326-3942. For additional information contact Allen Pitts, W1AGP.

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**The ARRL Letter Vol. 24, No. 03 January 21, 2005
==>FCC CHAIRMAN MICHAEL K. POWELL AN-
NOUNCES HIS RESIGNATION**

FCC Chairman Michael K. Powell announced today that he'll step down, effective "sometime in March." Powell's resignation comes just one day after President George W. Bush's inauguration for a second term in the White House. Nominated by former President Bill Clinton, Powell—whose father is Secretary of State Colin Powell—joined the FCC in 1997. He became its chairman two days after President Bush was sworn in for his first term in 2001. ARRL CEO David Sumner, K1ZZ, called Powell's performance "a

deep disappointment" after some initial optimism. While the League is not unhappy about Powell's departure—especially given his unabashed cheerleading on behalf of the FCC's broadband over power line (BPL) initiative—there's also concern about whom President Bush might call upon to replace him. "It's no secret that we thought Chairman Powell was going entirely in the wrong direction on BPL and dragging the other commissioners and FCC staff along—willing or not—because he was, after all, the chairman," Sumner said. "A new chairman might be a chance for a fresh start." Last October when the FCC adopted new Part 15 rules for BPL, Powell called it "a banner day." While conceding that BPL will affect some spectrum users, including "all those wonderful Amateur Radio operators out there," the chairman implied that the FCC must balance the benefits of BPL against the relative value of other licensed services. Powell listed the Commission's adoption of BPL rules among the "policy highlights" of his tenure. "Broadband to power plugs would lower prices, expand deployment," the chairman's list of accomplishments asserts. Possibilities to replace Powell include the other Republican members of the five-member FCC—Kathleen Q. Abernathy, a staunch BPL supporter, and Kevin J. Martin. Speculation also has been raised about various candidates outside the commissioners. "We look forward to the opportunity to work with the new chairman, whoever that may be," Sumner said. Powell, in his announcement, said it was "with a mixture of pride and regret" that he informed the president of his decision to step down. "Having completed a bold and aggressive agenda, it is time for me to pursue other opportunities and let someone else take the reins of the agency," he said. "During my tenure, we worked to get the law right in order to stimulate innovative technology that puts more power in the hands of the American people, giving them greater choices that enrich their lives." The chairman said the seeds of the Commission's policies under his leadership "are taking firm root in the marketplace and are starting to blossom." He cited the increased use of cell phones, digital TV and other digital technology "increasingly connected anytime, anywhere by a wide variety of broadband networks." "Our children will inherit this exciting future," Powell proclaimed, adding that he looks forward to spending some time with his wife and two sons "before taking up my next challenge." As FCC chairman, Powell also has been in the forefront of enforcing the Commission's rules on indecency, largely through imposing huge fines on violators. He also supported changes in media ownership rules that permitted even greater concentration in the ownership of broadcasting outlets. Powell's formal resignation announcement followed widespread reports in the media that he would be leaving. Communications Daily said the chairman's last day would be March 10.

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**==>ARES SUPPORTS NATIONAL WEATHER
SERVICE, RED CROSS IN FLOODING'S WAKE**

The same weather system that caused flooding and mudslides in California wreaked havoc elsewhere in the western US the week of January 10. Heavy rainfall in the southeastern Nevada region bordering Utah and Arizona combined

with runoff from melting snow, causing rivers and streams to overrun their banks. The resulting flooding damaged or destroyed dozens of homes in the area northeast of Las Vegas. Early on in the emergency, the National Weather Service (NWS) contacted Clark County, Nevada, Emergency Coordinator Charlie Kunz, AA5QJ, to request help from his team. "They had lost a level detector on the Muddy River near Glendale and asked if someone could get them reports," said Vern Garman, K0EGA, the Clark County ARES Assistant EC for Operations and Training. Starting January 10, radio amateurs from the Logandale/Overton area provided information to the NWS for the next three days. In addition, Garman reports, the Clark County Office of Emergency Management activated the emergency operations center (EOC) on January 11, and ARES deployed a volunteer to the EOC for about one day. After flooding displaced some area residents, the American Red Cross opened a shelter in Overton, and Logandale/Overton-area ARES volunteers provided communication support. At least five ARES members also aided the Red Cross in preliminary damage assessment activities. On January 15, the Red Cross requested ARES support in Mesquite, and six amateurs from Las Vegas and one from Overton responded. "This group assisted in setting up the Red Cross communications van and provided communications for outreach teams searching for the people who needed Red Cross assistance," Garman explained. The outreach activity was centered in the northeastern corner of Arizona, near Littlefield and Beaver Dam, he said. A road washout cut off access to Beaver Dam, and some two dozen homes were damaged or destroyed. Southern Nevada District Emergency Coordinator Glenn Hale, KB7REO, said communications support to the Red Cross consisted of installing an antenna on the mobile communications vehicle and programming the Icom IC-706MKIIG transceiver aboard for area repeaters. Hale noted that the Red Cross emergency response vehicles (ERVs) primarily use the 30-50 MHz Public Safety band to communicate to their command post. Garman said one of the responders, Jack Cook, N8RRL, had Red Cross communication support training and had operated one in Florida after last year's hurricanes. Two vehicles owned by Red Cross personnel served as secondary ERVs, Hale said, and he and Dan Starr, AA7I, supported that effort in Littlefield by shadowing the group with HF/VHF communication. Most activity was within the Virgin River Gorge, and nearly all communication to the command post was via the Utah Hill 146.820 repeater. "Bridges to the community were completely washed out making access to the community difficult," Hale reported. "The St George, Utah, American Red Cross kitchen was supplying food to the ERVs. At one location in Beaver Dam, 55 meals were served." Hale said some homes in the region around Littlefield and just across the border in Mesquite were damaged or destroyed by floodwaters and mud. Conventional telephone and some cellular service in the area was out completely, and the Red Cross used a satellite uplink to communicate with its national headquarters from the communications van. Garman says the support for the Red Cross wrapped up when the organization completed its outreach program on January 16. In all, more than a dozen ARES vol-

unteers responded to the weather emergency.

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**==>INDUSTRY CANADA REPORTS
"OVERWHELMING AGREEMENT" TO
DROP MORSE**

Radio Amateurs of Canada (RAC) reports that an Industry Canada (IC) analysis has found "overwhelming agreement" that Canada should move away from retaining a Morse code requirement as "the sole means of gaining access" to the HF amateur bands. IC has posted a summary of comments from the amateur community to RAC's Recommendations from Radio Amateurs of Canada to Industry Canada concerning Morse Code and Related Matters. "Amateurs should note that while the responses heavily favored deletion of the Morse Qualification as a requirement for access to the HF bands, Industry Canada still has to make and announce a decision on Morse retention or deletion," RAC emphasized. IC reported 123 comments in favor of relaxing the code requirement in Canada and only 19 "clearly opposed." Another six comments were inconclusive. The regulatory agency also has attempted to gauge the level of support for each of RAC's 12 license restructuring recommendations. IC said it would formulate a plan to implement changes emerging from the consultation process. RAC notes that until IC announces a decision to delete Morse, Canadian amateurs not holding the Morse Qualification may not operate on the HF bands. The Industry Canada comment summary is on IC's Web site <<http://strategis.ic.gc.ca/epic/internet/insmt-gst.nsf/en/sf08280e.html>> Here in the US, the FCC has made no recommendation or decision regarding the future of the current 5 WPM (Element 1) Morse requirement for HF access. It's also reviewing several petitions, including one from the ARRL, that propose further Amateur Radio license restructuring.



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**The ARRL Letter Vol. 24, No. 04 January 28, 2005
==>DXCC LISTINGS NOW AVAILABLE ON THE
ARRL WEB SITE**

The ARRL Web site now features up-to-date listings of DXCC awards earned. The new system shows every issued DXCC award known to ARRL's computerized DXCC system, with the exception of individual standings for 5BDXCC. ARRL Membership Services Manager Wayne Mills, N7NG, says the Web site listing is even more complete than the DXCC Yearbook ever was, since the printed list did not list inactive band-accounts for the previous year. "This will list everything and everybody," Mills emphasized. "The new system makes available a separate listing for each DXCC award type—band or mode." Even more important, Mills notes, is that it essentially renders obsolete the manually generated monthly and yearly reports. "Under the new system, DXCC listings will updated daily," he emphasized. The DXCC standings of all ARRL members will remain in dark type. Call signs of non-members who have not submitted credits for 10 years or more are in grayed-out type. Each listing by band or mode is complete in a separate Adobe PDF file. The largest listing (DXCC Mixed) now runs to more than 50 pages, but the size of the PDF file is only about 150 kbytes because of file compression. Printing format options include US letter-sized or ISO A4 paper. The DXCC listings can be found at <http://www.arrl.org/awards/dxcc/#listings>.

Questions for Extra Class License

1. (E1A01) What exclusive frequency privileges in the 80-meter band are authorized to Amateur Extra Class control operators?
 - A. 3525-3775 kHz
 - B. 3500-3525 kHz
 - C. 3700-3750 kHz
 - D. 3500-3550 kHz
2. (E1E11) Which amateur service UHF bands have frequencies available for a space station?
 - A. 70 cm, 23 cm, 13 cm
 - B. 70 cm
 - C. 70 cm and 33 cm
 - D. 33 cm and 13 cm
3. (E2C02) What is one of the main purposes for holding on-the-air operating contests?
 - A. To test the dollar-to-feature value of station equipment during difficult operating circumstances
 - B. To enhance the communicating and operating skills of amateur operators in readiness for an emergency
 - C. To measure the ionospheres capacity for refracting RF signals under varying conditions
 - D. To demonstrate to the FCC that amateur station operation is possible during difficult operating circumstances
4. (E4A05) Which test instrument is used to display intermodulation distortion products in an SSB transmission?
 - A. A wattmeter
 - B. A spectrum analyzer
 - C. A logic analyzer
 - D. A time-domain reflectometer
5. (E5C10) In rectangular coordinates, what is the impedance of a network comprised of a 10-microhenry inductor in series with a 40-ohm resistor at 500 MHz?
 - A. $40 + j31,400$
 - B. $40 - j31,400$
 - C. $31,400 + j40$
 - D. $31,400 - j40$
6. (E6B22) What type of bias is required for an LED to produce luminescence?
 - A. Reverse bias
 - B. Forward bias
 - C. Zero bias
 - D. Inductive bias
7. (E7E19) How are FM-phone signals detected?
 - A. With a balanced modulator
 - B. With a frequency discriminator
 - C. With a product detector
 - D. With a phase splitter

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PO BOX 111
PROVIDENCE, UT 84332



January, 2005

Some Contents...

Presidents Message	1
Ham Profile: Jacob Anawalt	1
Events Calendar	2
Budget for 2005	5
ARRL News	6-7

