



AARC COVER

Keeping Austin Wireless for Over 90 Years!

Bulletin of Austin Amateur Radio Clubs

ISSN 1067-0262

January 2010

Happy New Year

Issue 1-2010

ARRL Bulletin 37
From ARRL Headquarters
Newington CT December 16, 2009
To all radio amateurs

ARLB037 Amateur Radio Bill Passes Senate, Moves to the House

On Monday, December 14, S 1755 -- The Amateur Radio Emergency Communications Enhancement Act of 2009 -- passed the Senate by unanimous consent; the bill now goes to the House of Representatives for consideration. Sponsored by Senator Joe Lieberman (ID-CT), and Senator Susan Collins (R-ME), S 1755, if passed, would direct the Department of Homeland Security (DHS) to undertake a study on emergency communications.

S 1755 points out that "There is a strong Federal interest in the effective performance of Amateur Radio Service stations, and that performance must be given -- (A) support at all levels of government; and (B) protection against unreasonable regulation and impediments to the provision of the valuable communications provided by such stations."

Members of the Senate Homeland Security and Governmental Affairs Committee considered S 1755 on December 10. After it passed through Committee, it was placed on the Senate's calendar to be voted on. "We are grateful to Committee Chairman Lieberman and Ranking Member Collins for sponsoring the bill and arranging for its swift consideration and passage by the Senate," said ARRL Chief Executive Officer David Sumner, K1ZZ.

Similar in language to HR 2160 (also called The Amateur Radio Emergency Communications Enhancement Act of 2009 that was introduced this past April by Representative Sheila Jackson-Lee [D-TX-18]), S 1755 calls on DHS to undertake a study on the uses and capabilities of Amateur Radio Service communications in emergencies and disaster relief and then to submit a report to Congress no more than 180 days after the bill becomes law. The study shall:

Periodic Events

Sun	7:30 p.m.	Travis ARES net	147.36 MHz + (131.8)
Sun	8:00 p.m.	Travis ARES Packet	145.73 MHz -
Sun	8:00 p.m.	Williamson ARES net	146.64 MHz - (162.2)
Sun	9:00 p.m.	ARO Swapnet	146.94 MHz -
Sun	(After Swapnet)	Newsline	146.94 MHz -
Mon.	7:30 p.m.	STX ARES Net	3.873 MHz
Tues.	7:30 p.m.	Hays ARES net	444.150 + (114.8)
Tues.	8:00 p.m.	Bastrop ARES Net	443.750 + (114.8)
Wed	11:30 a.m.	Ham Social Luncheon, Jim's	146.94 MHz -
Thu	9:00 p.m.	2m SSB Net	144.250 (USB)
Thu	11:00 a.m.	Lunch, Pokey Joe's 183&Great Hills	444.1 MHz+
Fri	8:00 p.m.	6m SSB Net	50.230(texasvhf.org/)
Sat	7:00 - 8:30a.m.	Breakfast @ Waterloo Ice House	444.1 MHz +
Sat	9:00 a.m.	Chapter 67 QCWA QSO Net.	3.920 MHz LSB
Daily	6:30 p.m.	Central Texas Traffic Net	147.14MHz+

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Ham Radio Exams Results

The following are the results of the ARRL VE Test Session held on December 5th, 2009 at Bethany United Methodist Church :

Technician Class Licenses Processed

Alexander J. Ahrens, KF5EHA	Bojan Babic, KF5EHD	Michael D. Carlson, KF5EHB
Amanda C. Jefferies, KF5EHF	Florin Matei, KF5EHO	Valene G. Mendiola, KF5EHC
Brian L. Nesuda, KF5EGZ	Mark L. VandenBrink, KF5EHE	

General Class License Processed

Ryan S. Johnson, KF5BNQ

Examiners Participating in this Test Session

Milt Cram, W8NUE	Tony Davee, KM5JH	Howard Glueck, K5ZUA
Curt Goodson, W4QBU	Larry Gunter, WB5BEK	Joe Makeever, W5HS

Next ARRL VE Test Sessions

January 9th - Bethany United Methodist Church, Disciple Bldg. Room 213
February 6th - Bethany United Methodist Church, Disciple Bldg. Room 213

TNX ES 73 DE W5HS
Joe

12-19-2009

The South Austin W5YI VE team heartily congratulates all of the following people who earned new or upgraded amateur radio licenses at our December 19th session:

Extra Class – Gary E. Anderson, II, KD5UDP

General Class – Thomas C. Remmert, KE5YUU Dale C. Wofford, KD5RQW

Technician Class (all new) –

Russell K. Best	Terry G. Browning	Leonard W. Leslie	Brian L. Margason
Heath L. Owen			

Our administering volunteer examiners were:

Hugh Brown, NT5O	Anthony Lanni, AE5JQ
Lloyd Goehring, Jr., N5TO	Jimmy Mercer, N5WDH
Jim Greenwood, AB5EK	Gary Popp, AE5JR

Our next two amateur radio exam sessions will start at 2 PM on January 16th
and February 20th in room 106 of Fleck Hall on the campus of
St. Edward's University. The exam fee is \$14.

For additional information regarding our amateur radio examination sessions,
please contact Jim, AB5EK at (512) 327-6184 or by e-mail to
hamradioexams@hotmail.com or visit our web page at <http://texashams.org/w5yi-austin/>

Austin Amateur Radio Club, Inc., PO BOX 4739, AUSTIN TX 78765-4739, Web site: <http://www.austinhams.org>

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ARRL Travis Co. Emer. Coord.	Don Dudley	AC5YK		ac5yk@arrl.net
TC ARES PIO	Steven Polunsky	W5SMP		tcares-pio@gmail.net

Please contact a club officer, attend a meeting, mail us to join the organization, you can also join or renew online.

The Austin Amateur Radio Club, Inc. (AARC) has annual membership dues of \$20.00 per person or \$30.00 per family. AARC maintains the following repeaters:

FREQUENCY	AUTOPATCH	USE
146.780	Yes	General
146.880	Yes	General
146.940	No	Most popular, WX, Swapnet & Newslite
224.800	No	
444.100	No	
146.480/+1.0	No	2m D-Star Repeater
1293.200/-20	No	23cm D-Star Repeater[W5KA A]
1248.200	No	23cm D-Star DD (data, simplex/reversible) [W5KA A]
146.480/+1.0	No	2m D-Star Repeater [W5KA C]

Persons using the repeaters are asked to join the club to help support these valuable resources. To use the autopatch, announce your call sign, press * and dial the phone number then release the PTT. When finished, press # to hang up the phone. Dial 911 (no * needed) for emergency services.

AARCOVER Information: ISSN 1067-0262, CODEN AAOVE3. ©Austin Amateur Radio Club, Inc.

Published monthly by the Austin Amateur Radio Club, Inc.

Viewpoints expressed in the AARCOVER do not necessarily reflect those of any club, or of its members, directors, or officers.

Material quoted from the ARRL Letter is supplied by the American Radio Relay League, Inc.

Members and other readers are encouraged to submit material for publication. Call Mitch London, if mailed submissions are required. Electronic files are encouraged! Submissions may be edited for publication. **Deadline is the 20th of the month.**

Material may be used in a later issue. Unless otherwise noted, permission is granted to reprint AARCOVER articles, provided you credit the author and the AARCOVER.

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“XYL” is printed with permission by Carolyn Canfield, KE5DTS. Cartoons may not be reprinted without written permission.

For Changes in your ADDRESS, PHONE NUMBER or CALL SIGN:

See Jay Hoffman, KA5OST (512) 388-4404 ka5ost@arrl.net

Jay handles all changes for membership information.

Over the WWWaves.

A Collection of Various Websites sent in your friendly neighborhood hams...

If you have run out of antenna ideas, take a look at this web article:

http://www.n0lx.com/ILA_EFHWA.html

Stuart Rohre, K5KVH

Came across this website. “Dead Electrical Dudes”

<http://www.neidlinger.us/>

Curt Goodson, W4QBU

For those hams who are interested in this area of study and experimentation, this link

<http://www.sparkfun.com/commerce/present.php?p=BEE-1-PowerSupply>

may provide the key to fruition of your dreams, or at least the first step of the series. The author says:

This is a series of lectures written for those with mild electronics background (aka Sophomore in Electrical and Computer Engineering) to learn about the wild world of Embedded Electronics.

Rick Herndon, K5FNI

AARCOVER 1-2010

Club Dues Due for 2010

I am now accepting payments for 2010 dues.

Please send your payment of \$20 for individuals or \$30 for family (hams in same household)

Be sure include any change of contact/license info.

You can pay online here -

<http://www.austinhams.org/join.htm>

Print form to mail can be found at

<http://www.austinhams.org/Docs/>

AARC_ARRL_Membership_Form_%202008.pdf

Or print and cut the form on the right and mail to...

The Austin Amateur Radio Club
PO Box 4739
Austin, TX
78765-4739

Thanks and happy hamming!

Jay Hoffman KA5OST,
Club Treasurer

The Austin Amateur Radio Club, Inc.

Membership Form for the year ending December 31, 20____

Application for: (check applicable box and enclose payment)

AARC	<input type="checkbox"/> Individual	\$20	_____
	<input type="checkbox"/> Family (all with same mailing address)	\$30	_____
	<input type="checkbox"/> Student rate (thru 12 th grade, no mail)	\$ 5	_____
ARRL	<input type="checkbox"/> Individual ARRL (new or renewal)	\$39	_____
	<input type="checkbox"/> Senior ARRL (new or renewal)	\$36	_____
	<input type="checkbox"/> Family member ARRL(at same address) - \$8ea x _____ =		_____
	<input type="checkbox"/> First time ARRL discount	-\$15	_____
	<input type="checkbox"/> ARRL renewal with AARC Membership -\$ 2		_____
	Total Enclosed		_____

Mail this form with payment to:

AARC – P O Box 4739 – Austin, TX 78765-4739

Check One: New member Renew membership
 Information change

ARRL member **Y N** License class **E A G T+ T N** Year first licensed _____

Call sign _____ First Name _____ Last Name _____

Mail Address _____

City/St/Zip _____

Hm Ph _____ Cel Ph _____ Wk Ph _____

Pager # _____ e-mail _____

Please list additional family members here and check the family member box above.

2nd Call _____ Name _____ ARRL mem **Y N**

3rd Call _____ Name _____ ARRL mem **Y N**

4th Call _____ Name _____ ARRL mem **Y N**

I/WE have interest in the following:

<input type="checkbox"/> Monthly meetings	<input type="checkbox"/> Field Day	<input type="checkbox"/> Working Events	<input type="checkbox"/> Transmitter Hunts
<input type="checkbox"/> Talking on 2 mtrs	<input type="checkbox"/> DXing	<input type="checkbox"/> Newsletter	<input type="checkbox"/> Holding Office
<input type="checkbox"/> Presenting programs	<input type="checkbox"/> CW	<input type="checkbox"/> Net Control	<input type="checkbox"/> Emergency Comm's
<input type="checkbox"/> Holding ARRL office	<input type="checkbox"/> Education	<input type="checkbox"/> Public Awareness	<input type="checkbox"/> Working w/Youth
<input type="checkbox"/> Others _____			

----- (for office use only) -----

Rcvd ___/___/___ Amt \$ _____ Ck ___ Cash ___ Dep ___ Post ___

JMH 02/01/2008

Noted Balun Author SK

Forwarded By Stuart Rohre, K5KVH

Dec. 1, 2009 Jerry Sevick, W2FMI, became a Silent Key on November 29 after a brief illness. Sevick was a renowned authority on antennas and transmission line transformers, and was active on the air until just days before his passing. He was 90 years old. Sevick is best known among hams as author of "Transmission Line Transformers," "Building and Understanding Baluns and Ununs," and "The Short Vertical Antenna Handbook." He was also a prolific author of magazine articles in both amateur and professional technical media.

Jerry attended Wayne State University on an athletic scholarship and was drafted by two professional football teams, but he became a U.S. Army Air Corps pilot in World War II and was introduced to radio and electronics while in the military. He also discovered ham radio, which he often said changed his life, as he changed career goals after returning from the war, going on to earn a Ph.D. in applied physics from Harvard University. After teaching at Wayne State and working as a local weather forecaster for WXYZ-TV in Detroit, Jerry went to work for Bell Laboratories in Murray Hill, New Jersey, where he retired as Director of Technical Relations.

CRITICAL FREQUENCY DETERMINATION

By Lew Thompson, W5IFQ

Optimum NVIS propagation is achieved by operating at or slightly below the local Critical Frequency (CF). The CF is defined as the highest frequency signal that will reflect directly back to its transmission location as shown in Figure 1. The signal will be reflected from the higher F-layer if the operating frequency is near the foF2 (frequency of the Ordinary wave reflected from the F2 layer) critical frequency. The CF is dependent on the intensity of the ultra-violet (UV) radiation from the sun and so varies with the time of day and day of the sunspot cycle. Increased UV radiation will increase the CF of the F-layer. The CF is measured by ionosondes located all over the world. An ionosonde measures the structure of the ionosphere directly overhead by transmitting a sequence of varying frequency pulses and then analyzing the strength and delay time of the echoes.

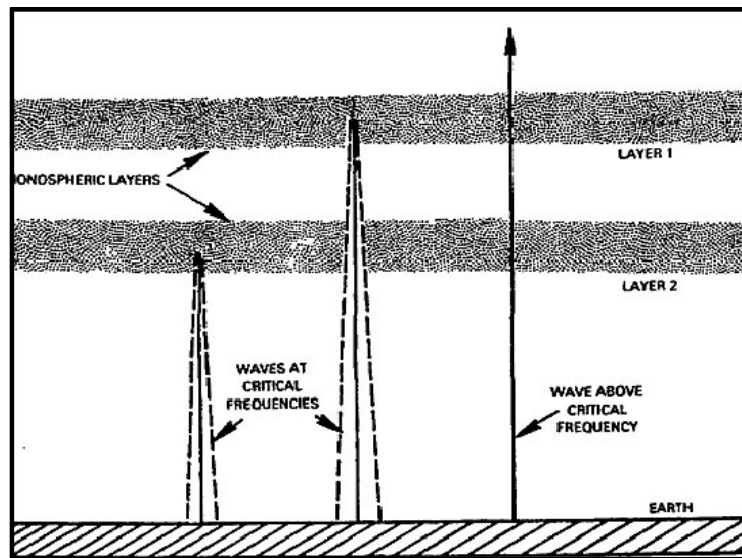


Figure 1: Critical Frequency Definition

Data from this world-wide series of ionosondes can be found at: <http://ulcar.uml.edu/DIDBase/> Click on *Station List* and then select #13 EG931-Eglin AFB. This will bring up a series of screens that allow you to select the Year, Month, Day, and Time. All dates and times are in UTC (Zulu) time. Eglin AFB is 52 minutes in sun time ahead of central Texas (difference in Latitude) so what will happen to the ionosphere over Texas is occurring over Eglin about one hour earlier. For example, to determine the Critical Frequency for our 1401Z net (0800 CST) look at the 1300Z data for Eglin AFB. You can also look ahead in time to see what is going to happen to the CF during the net. This is specially valuable for the 0101Z net since typically the CF with drop rapidly after dark, requiring a frequency change during the net.

Ionosonde Interpretation For Selection of Critical Frequency

An idealized ionosonde plot is shown in Figure 2.

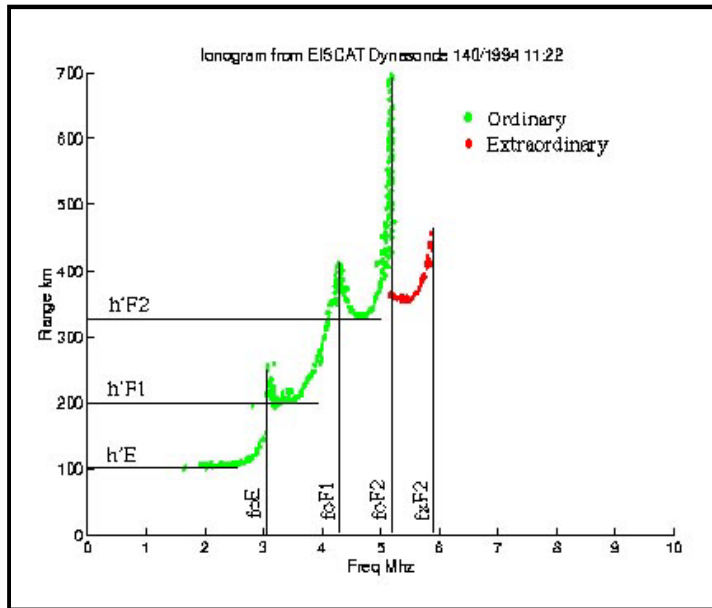


Figure 2: Ionosonde Plot Definitions

The Critical Frequency, foF2, is the frequency at which the Ordinary Wave reflection rises rapidly in height (Range). The Virtual height of the reflection is h'F2. An actual ionogram from Eglin AFB is shown in Figure 3.

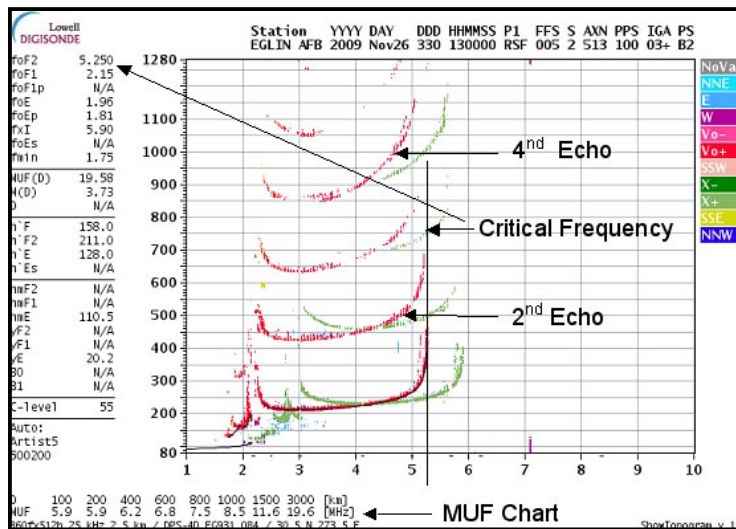


Figure 3: Eglin AFB Ionogram

Observe that the colors of the Ordinary and Extraordinary Wave plots are reversed from Figure 2. Typical multiple echoes, ionosphere/ground/ionosphere reflections can be seen above the first echo. If the controlling computer can scale the data, the ionospheric parameters will be listed in upper left table. A very useful second table, the MUF Chart, can be seen in the lower left part of Figure 3. The parameter "D" is the skip (exclusion) distance in Km. Net operation on 60m (5.2 MHz) would be excellent but 40m (7.2 MHz) would have a skip zone of almost 800 km. Many times the computer is unable to scale the data, but the plot is still available for your interpretation. Figure 4 shows an un-scaled ionogram with a critical frequency of 3.9 MHz (75m).

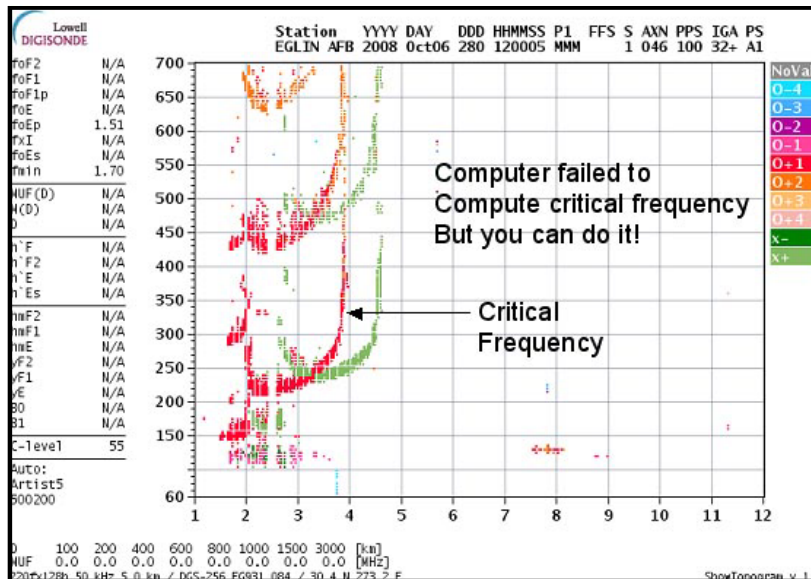


Figure 4: Ionogram Without Computer Scaling

Finally, the computer can make a scaling error resulting in reporting an incorrect CF as shown in Figure 5. This error is due to a U.S. Government requirement for U.S. ionosondes to not transmit on certain government frequencies. The computer then sometimes interprets this frequency drop out as the rapid foF2 rise.

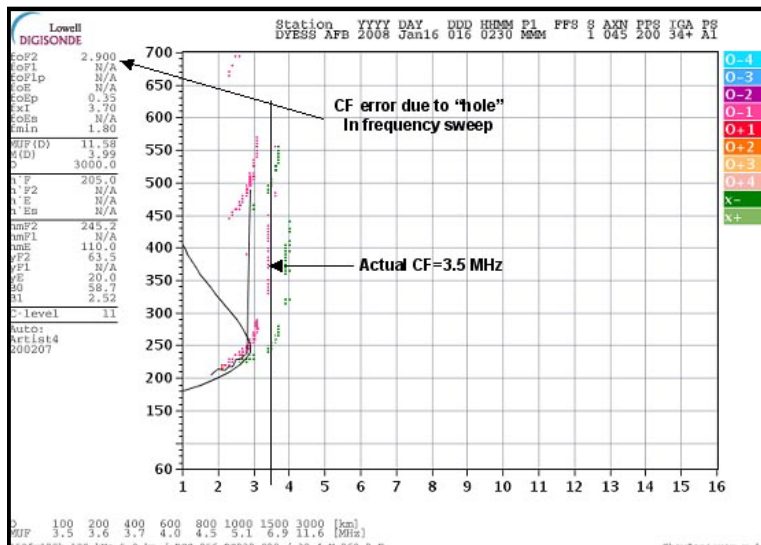


Figure 5: Ionosonde Computer Scaling Error

Net Frequency Selection

The optimum day time net frequency would be slightly below the CF but as high as possible to minimize D-layer absorption. Recall that D-layer absorption is inversely proportional to the frequency mathematically squared. Other factors such as solar x-ray flares and coronal mass ejections can also have adverse effects on ionospheric propagation. Night time net frequency selection should also follow the CF only because antenna efficiency and atmospheric noise reduce communications ranges, i.e., 75m is better than 160m!

Please see: [http://www.txarmymars.org/lews_corner/NVIS Theory & Practice.pdf](http://www.txarmymars.org/lews_corner/NVIS_Theory_&_Practice.pdf) for a more complete discussion of solar and other effects on NVIS propagation.

Include a review of the importance of Amateur Radio emergency communications in furtherance of homeland security missions relating to disasters, severe weather and other threats to lives and property in the United States, as well as recommendations for enhancements in the voluntary deployment of Amateur Radio licensees in disaster and emergency communications and disaster relief efforts and improved integration of Amateur Radio operators in planning and furtherance of the Department of Homeland Security initiatives.

Identify impediments to enhanced Amateur Radio Service communications, such as the effects of unreasonable or unnecessary private land use regulations on residential antenna installations; and make recommendations regarding such impediments for consideration by other federal departments, agencies and Congress.

In conducting the study, S 1755 directs the Secretary of Homeland Security to "utilize the expertise of stakeholder entities and organizations, including the Amateur Radio, emergency response and disaster communications communities."

S 1755 makes note of the fact that Section 1 of the Joint Resolution entitled Joint Resolution to Recognize the Achievements of Radio Amateurs, and To Establish Support for Such Amateurs as National Policy -- approved October 22, 1994 (Public Law 103-408) -- included a finding that stated: "Reasonable accommodation should be made for the effective operation of Amateur Radio from residences, private vehicles and public areas, and the regulation at all levels of government should facilitate and encourage amateur radio operations as a public benefit."

The bill also pointed out that Section 1805(c) of the Homeland Security Act of 2002 (6 U.S.C. 757(c)) directs the Regional Emergency Communications Coordinating Working Group of the Department of Homeland Security to coordinate their activities with ham and Amateur Radio operators among the 11 other emergency organizations, such as ambulance services, law enforcement and others. ■

Emergency Alert System Now Includes Cell Phones

Only landlines were included before.

By Suzannah Gonzales

AMERICAN-STATESMAN STAFF

Monday, November 02, 2009

Central Texans can now receive emergency notifications on their cell phones. Previously, the service was provided only to those with landline telephones. But with an increasing number of residents ditching their landlines to go wireless, there was a notification gap, local emergency officials said.

"It's another tool to getting emergency information out to our residents," said Travis County emergency management coordinator Pete Baldwin. The emergency notification system for cell phones debuted last month for residents of the Capital Area Council of Governments region, which serves Travis, Williamson, Hays, Bastrop, Caldwell, Burnet, Llano, Blanco, Lee and Fayette counties. The council maintains the system, but emergency officials in all 10 counties are authorized to activate it, officials said.

To register for the emergency notification system, residents enter their cell phone numbers at <http://wireless.capcog.org> and enter street addresses or select specific locations on a map. Residents can enter multiple addresses, including addresses for a home, business, school and relatives in the 10-county region. At the time of registration, the person must have the cell phone in his or her possession.

"Our goal is to register everyone that has a cell phone and wants to be notified," Baldwin said.

There are nearly 1 million landline phones in the 10-county region, according to the council's Director of Homeland Security Ed Schaefer.

The council has provided emergency notification since 2004, using a 911 database of landline telephone numbers that's restricted to emergency use by state law and updated frequently, Schaefer said.

More than \$100,000 from the federal State Homeland Security Program was used to upgrade the system this year, and of that, less than \$10,000 was spent on adding cell phones, he said.

As of Friday, 995 addresses associated with cell phones were registered in the system, Schaefer said.

More than one in five households in Texas used only wireless phones in 2007, according to a study released this year by the Centers for Disease Control and Prevention.

Local meteorologist Troy Kimmel has recorded introductions for notifications.

Notifications can be provided in Spanish and for those who are hearing impaired.

In the past, the emergency notification system has been used to advise residents to evacuate during brush fires and floods, and to notify residents of boil-water notices, hazardous-materials spills and SWAT standoffs, Schaefer said — "situations in which human life and property is in jeopardy."

.... The Austin Police Department Training Academy is Looking for Volunteers

.... Please Read Carefully

The Austin Police Department Training Academy will be holding Alcohol (Field Sobriety) Practicals for the 116th Police Cadet Class, which will graduate in 2010, next month (in January). This training for the APD cadet class requires volunteers and we would like you to consider this opportunity for you and/or your group to serve community service hours in making Austin a safer and better place to live.

The two sessions will be Friday evening/night, 8 January 2010 as well as Friday evening/night, 15 January 2010. You and/or your group can offer to volunteer either one or even both of the nights (by alternating roles) and would need to be at the Austin Police Department Training Academy by 5pm each of those Friday evenings and would be there as late as 11pm to 12 midnight each night.

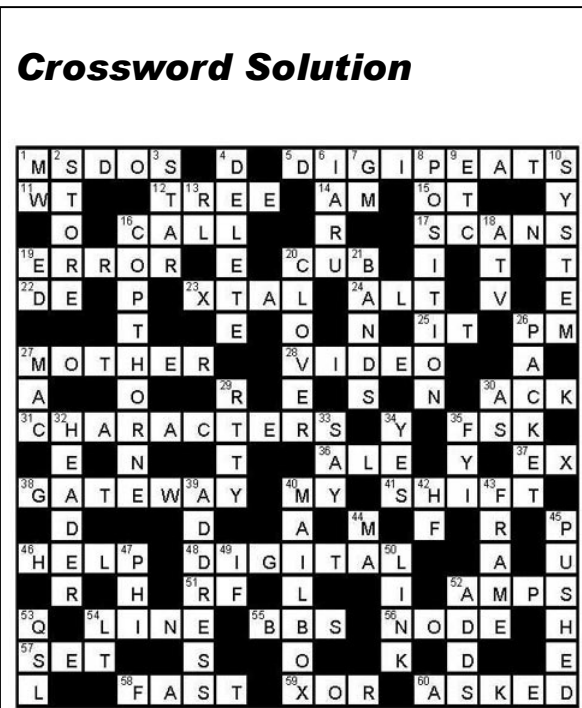
This volunteer effort is regulated closely and is very structured and monitored. The APD Training Academy staff is looking for 15 to 20 pairs of volunteers for each night. Each pair of persons must consist of one volunteer drinker (21 years of age or above) and one non-drinking monitor (18 years of age or above). Please be aware that we will not pair people up; if you would like to volunteer (either as a drinker or non-drinking monitor), it is your responsibility to find a person to pair up with to act opposite of you as a drinker or non-drinking monitor. The non drinking monitor will be responsible for continuously monitoring their paired drinker during the practicals and will be responsible for getting the drinker home safely at the end of the night.

Please note that all persons participating must have a current and valid drivers license. All persons participating will, in addition, will have a background check performed; no persons with any currently pending or past alcohol and/or drug related charges or offenses may participate. In addition, other charges or offenses on your record, at APD discretion, may disqualify you from participating. Drinking volunteers should be aware that anyone with medical problems that could be made worse by the consumption of alcohol should not participate.

The atmosphere at the APD Academy during this practical is very interesting and educational and I promise that you'll have a good time. Pairs or groups of pairs are welcome to bring board or card games to play while drinking volunteers are served their drinks (before everyone then begins the practical and works with members of the APD 116th Cadet Class in realistic scenarios).

If you would like to volunteer, as civilian volunteer coordinator for this event, I will need to hear from you via email as soon as possible. Before contacting me, though, please make sure the following is ready to be provided to me..

(1) the night(s) you and your partner would like to participate - remember, we will not be pairing people!!



- (2) Name, Drivers License State and Number, Email, Cell Phone Number, Date of Birth, Race and Sex of both you and your
 - (3) partner - please make sure to indicate which will be the drinker
- After I have this info, I will forward it to the APD Training Academy staff, who will perform background checks. Shortly thereafter, you will be advised, by email, that you have been cleared to participate. If you are not advised, please drop me an email note and I'll let you know. No one should just "show up" at the training academy those nights without having gone through the background check and approval.

Please make sure that you will be able to participate and that you will be available before volunteering for these practicals. The time and effort in getting people registered and the background checks done is intensive and we need all volunteers to be there!!

I will be preparing, for those volunteers needing them for groups and service organizations, a letter granting eight (8) community service hours for each night worked. On behalf of the men and women of the Austin Police Department and, specifically, the 116th APD Cadet Class, thanks in advance for considering this request. If there are any questions, please drop me an email or you are welcome to contact Jason Wolf, APD Training Officer, by dropping him a note at jason.wolf@ci.austin.tx.us.

Troy Kimmel, Civilian Volunteer Coordinator, APD FSP
APD Civil Defense Battalion member

Ham Radio Crossword

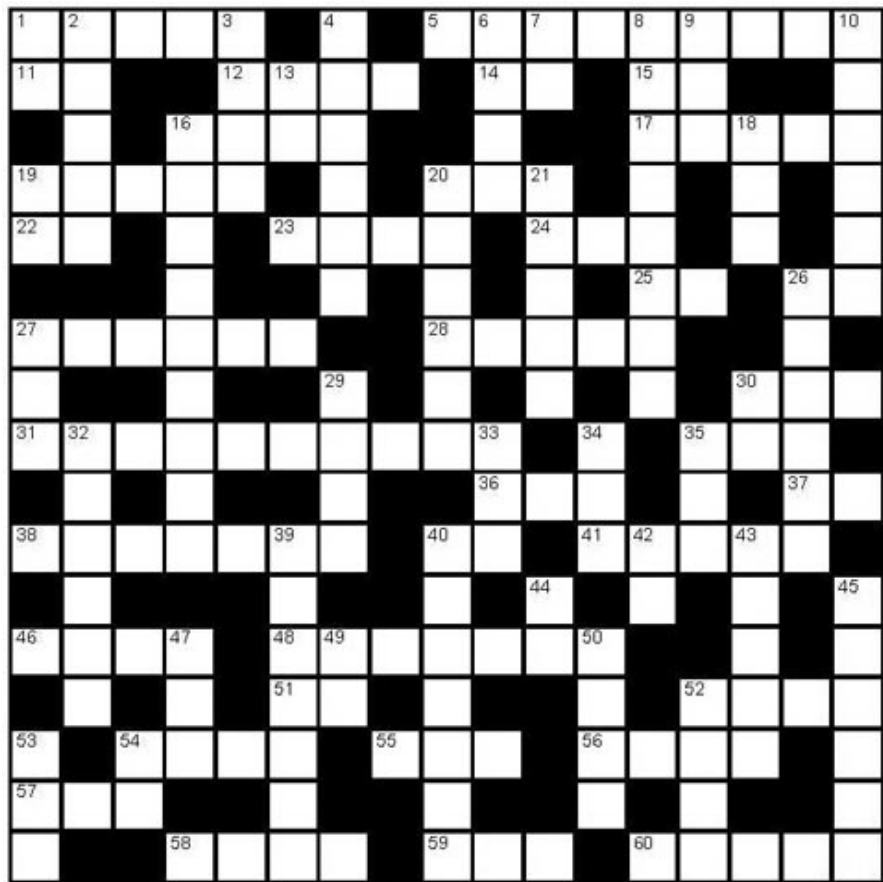
By H. Ward Silver, N0AX

Across

1. Predecessor to Windows
5. Packet relay
11. Weight (abbr.)
12. Branching network
14. Morning (abbr.)
15. Long-time ham (CW abbr.)
16. Attempt to contact
17. A video camera does this to the image
19. Mistake
20. Young reporter
22. From (CW abbr.)
23. Frequency determining element (abbr.)
24. Control - ... - Delete
25. Department in charge of computing services
26. Afternoon (abbr.)
27. Board in a computer
28. Signal containing a picture
30. Acknowledge (abbr.)
31. These make up text
35. Modulation for teletype
36. Automatic Link Enable (abbr.)
37. No longer (prefix)
38. Access port between networks
40. Not yours
41. Discrete change in frequency
46. Assist
48. Opposite of analog
51. Radio Frequency (abbr.)
52. Unit of current
54. A raster is made of these
55. Dial-up information server
56. Packet host
57. Select or change
58. Not slow
59. Type of digital gate used for randomizing
60. Inquired of

Down

1. Medium Wave (abbr.)
2. Save
3. Network connected to a central point
4. Erase
6. International Amateur Radio organization
7. Good Morning (CW abbr.)
8. APRS reports this data
9. And so forth (abbr.)
10. Collection of connected parts
13. Resistor-Inductor circuit (abbr.)
16. First name of the inventor of SSTV
18. Ham Television (abbr.)
19. Editor (abbr.)



20. HF digital modulation using four sub-bands
21. Amateur allocations
26. Digital mode using AX.25 protocol
27. Slang for Apple computers
29. Oldest digital mode (abbr.)
30. Stand by (CW abbr.)
32. Beginning of a data packet
33. Speak
34. Not no
35. For you to know (abbr.)
39. Network location
40. Storage place for incoming messages
42. Frequencies between 3 and 30 MHz (abbr.)
43. Data set on a link
44. One-thousand of an ampere (abbr.)
45. Shoved
47. Greek letter
49. Intermediate frequency (abbr.)
50. Network connection
52. Sums
53. Received and understood (abbr.)
54. Light (abbr.)

AARC Meeting Info.

Waterloo Icehouse
8600 Burnet Rd. South of 183

Officers Meeting 7 pm
January 19th

Special Holiday Party 7:30pm
January 5th - See website for meeting info
2008 Upcoming Amateur Exams

ARRL VEC-January 9th & February 6th 9a.m. at Bethany United Methodist Church. Contact Joe Makeever, W5HS (345-0800) or Joe Thiel, N5SMN (832-0450) for info. \$15 fee.

W5YI VEC- January 16th & February 20th 2p.m. in room 106, Fleck Hall, St. Edwards University. Contact Jim Greenwood, AB5EK arrl.net, (327-6184)

<http://texasparadise.com/w5yi-austin> for more info.

*******2010 DUES ARE DUE!!!*******

Dues must be paid by April 15, to be included in the annual Roster. Contact Jay Hoffman, KA5OST (512) 388-4404 or ka5ost@arrl.net or you can pay dues online at... **www.austinhams.org/join**

2010 Calendar of Events

Jan 15-16 Cowtown Hamfest Lockheed Martin Recreation Area 3400 Bryant Irvin Road Fort Worth, TX www.cowtownhamfest.org

Jan 16-Feb 6 Ham Technician Classes 4 Saturdays, 8 AM until 12 Noon Exams will be give the following Saturday at the Williamson Co Swapfest in Georgetown or at any of the regularly scheduled exams sites in Austin, (1st & 3rd Saturdays) www.austinhams.com

Jan 23 San Antonio Radio Fiesta Schertz Knights of Columbus Hall J C Smith N5RXS n5rxs@satx.rr.com

Jan 24 3M Half Marathon 5:30 a.m. - 11:00 a.m. 15-20 Amateur Radio Volunteers needed Must be licensed to operate on 2-meter band and provide your own HT or mobile rig. To volunteer visit WWW.3M.COM/RACES and click on the "Ask Us" button. Daniel Cronch N5VRS 512-984-3882 dcronch@mmm.com

Jan.	Feb.	Austin Meetings/Happenings	
5	2	AARC Meeting Waterloo Ice House*	7:00 p.m.
9	13	Austin QRP, Alvin's Sandwich Shop	11:00 a.m.
26	23	ARES Training -CTECC	6:30 p.m.
19	16	HSMM/Packet SIG at Red Cross	7:00 p.m.
25	22	ATV Club Mtg. Mangia Pizza	6:30 p.m.
16	20	QCWA IHOP 183 Near Duval	1:00 p.m.
23	27	Travis Co. REACT Jim's 183&Burnet	7:15 p.m.
26	23	Travis County A.R.E.S., ARL Aud.	7:00 p.m.
28	25	CERT Meeting CTECC	6:30 p.m.

**AARC Business Meeting is at Waterloo Ice House 8600 Burnet Come early and grab dinner before the meeting.*

AARCOVER
Austin Amateur Radio Club
PO Box 4739
Austin, TX 78765-4739
January 2010
Return Service Requested