

# SIERRA WAVELENGTH NEWSLETTER

JANUARY 2009 VOLUME 45, ISSUE 1

## PRESIDENT'S MESSAGE KEN, AE6LA

**January 2009...** "It rained all night the day I left – The weather, it was dry." Sounds like California.

Snow started at the 4,000 foot level here in Arnold mid-December, and continued on and off until the 26<sup>th</sup>. We had a total of 30 inches of the white stuff, and that's several trips with the snow-thrower over my 300 foot driveway. Our total rain is approximately 15 inches. A good year here for us would be 60 and 60 inches. NWS has officially said we're in "La Nina" or dryer than normal for No. California. It's been so cold outside, and in

my garage, that I haven't done much except burn wood and watch the snow melt.

Today, 1/12/09 the thermometer on my front deck went to 82 degrees and it feels like Spring.

Lynn and I had a great return trip today from Modesto on a route near the Sierra Railway right of way. I bet you didn't know you could drive dirt and gravel roads between here and there....The "Red Hills" were beautiful.

So what HAM things are in the works...?

-1<sup>st</sup> Bi-monthly meeting



1/15. We're working on a larger meeting place, and I will help present that at this meeting. —

-I plan on demonstrating the "Outpost" software, a packet interface program after the meeting.

-We had a great club breakfast/repeater meeting on the 3<sup>rd</sup>, and we will proceed to set up with testing a UHF repeater in the Arnold area. I think I can work on the project in my garage now.

I think I can work on the project in my garage now, if the weather stays anything like today.

**Cont'd on Page 9...  
Cont'**

## IRLP NEWS-ANDYTHOMAS (NV6V)

**January 2009**—Our IRLP node 3428 is still located at my home in Arnold. Unfortunately, I am still experiencing hardware issues and the node is off the air. My current plan is to swap out the majority of the hardware and pretty much start fresh. I expect the re-

placement equipment to be in place in the next month or so. Once it is operating successfully from this location, we'll be able to start preparing to re-locate the node to the Fowler Peak repeater site. Sorry for the down time, but I expect we will have a fully functional

and reliable IRLP node soon. I will be installing the node in the repeater vault and connecting it to the repeater itself. Once this and testing is complete, I expect the audio fidelity of our node to improve immensely. It'll sound great..!  
**73...Andy, NV6V**

Calaveras Amateur Radio  
Society, Incorporated

*Vol 45, Issue 1*

**Mailing Address:**  
P.O. Box 391  
Angels Camp, CA 95222

**Website:**  
[calaverasARS.org](http://calaverasARS.org)

**Club Call:**  
**N6FRG**

**N6FRG Repeater:**  
145.170 MHz  
Offset = 600 kHz  
PL = 100 Hz

**IRLP Node:**  
3428

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## NATIONAL EMCOMM TRAFFIC SERVICE (NETS)...

NETS uses designated watch and calling frequencies. Public service amateur radio operators everywhere are invited to monitor these frequencies whenever possible. During disasters and other emergencies, the frequencies are “open Nets”, but when traffic becomes heavy, they will become “command and control” frequencies with a net control station “triaging traffic”, and directing stations with traffic to another traffic frequency usually 5 kHz away.

Here are some “NETS” frequencies:

**SSB:** 1962, 3911, 5332, 7214, 14280, 5167.5 (Alaska only)

**CW:** 1911, 3540, 3911, 7111, 10119, 14050

**VHF.UHF:** 146.550 (Local EMCOMM Simplex); 147.420 (ARC EMCOMM Simplex); 146.520 (Nat'l Calling Simplex).

Cont'd on Page 3...

### WHAT'S NEXT?

#### Thursday, March 12th

Bi-Monthly Meeting  
IOOF Hall  
Angels Camp  
Meeting starts at 7 PM

#### Monday Night

7:30 PM Local  
CARS Weekly Net  
145.170 mHz, PL 100  
Stay informed...Tune in!

#### 1st Saturday, monthly

CARS Breakfast  
9:00 AM  
Main Street Café  
Angels Camp

Visitors Always Welcome !



#### Newsletter Editor

#### Write C/O:

Sierra Wavelength  
P.O. Box 553  
Arnold, CA 95223  
(209) 795-7507

wavelength@calaveras.org

## Using the 145.17 N8FRG Repeater Autopatch and Autodial...

**The N6FRG repeater has autopatch and autodial capabilities.** Club members are encouraged to use these assets whenever necessary. The autodial is a code-activated process where the repeater makes a phone call to a pre-determined number located in a slot assigned to each club member. The autopatch is just a way to connect your radio to the phone system, and make a call from your portable or mobile radio.

### Autodial and Autopatch-

Everyone in the club is given an autodial slot number, which contains their local phone number. The current CARS website Roster, which requires a “password” for access, has the slot numbers listed for each member’s name. To use the autodial or autopatch to call another member’s home, or a local 7-digit telephone number, see the CARS website for instructions.

Remember, all conversations go “over the air” like a radio-to-radio contact, so radio protocol is appropriate. Inform your call recipient they are “on the air.” If you forget to use “73” to “down” the autopatch, the repeater will down it in a minute or two.

## CARS NEWLY ELECTED OFFICERS- 2009

The following CARS members were elected by the membership in December 2008 :

**Ken Sanders - President**

**Steve Airola - VP \***

**Patsy Clark - Secretary \***

**Bill Holmes - Treasurer \***

**John Davenport - Public Information Officer**

The current offices of President, and Public Information Officer (PIO) will run to the end of their terms in 2009 (see Bylaws Article III, Sec. 1 & 2 for details on terms of office).

\* denotes newly elected by membership in December 2008

**EMCOMM...INCIDENT COMMAND SYSTEM – ICS**

The Incident Command System, or simply "ICS", is about ten years old. The ICS is the child of FIREScope which began nearly 25 years ago by national fire agencies. FIREScope is a time-tested system for managing large scale fire incidents involving multiple agencies and resources.

While the implementation of the ICS varies slightly from state to state, (and some occasionally between agencies within the same state); it is fairly well standardized, and is advocated by FEMA, other federal agencies, and most public (and some private) state and local agencies.

Still interested...?

Visit the EMMCOMM website at "<http://www.emcomm.org/>" for further information.

73...editor

### 24 NEW CARS, INC. MEMBERS ADDED SINCE JAN. 2008 !

Sam Hernandez, **WS6P**, West Point

Steve Airola, **W6RXK**, San Andreas

Robert Olla, **KC6VAG**, Murphys

Charlotte Farr, **N6NML**, San Andreas \*

Michael O'Keefe, **KI6PRM**, Mt. Ranch

Glenn Wharregard, **KG6CGE**, Rail Road Flat

Dan Forrester, **KC8DHV**, Copperopolis

Karen Coffman, **WA6KEC**, Coulterville

Robert Nelson, **K6RDN**, Murphys

John Stettler, **KI6DWP**, Jackson

Robert Purington, **WB6QLU**, Arnold

Kevin Ashford, **AB6XS**, San Jose

Ed Parsons, **N6LZR**, Murphys

Kathleen Hernandez, **KI6OBE**, West Point

Helen Olla, **KI6ARS**, Murphys

Derrill Coffman, **W7LTM**, Coulterville

Helen Holt, **KA6RNO**, Stockton \*

Tommy Farr, **W6IJ**, Denair

David Putnam, **KG6BVJ**, Herald

Carol Heath, **KB6GMU**, West Point

Michael Wells, **KG6MGF**, Camp Connell

Bruce Hart, **KI6RQY**, Avery

Jim Van Sant, **WB6NQM**, Valley Springs

Robert Nelson, **K6RDN**, Murphys

Larry Tusoni, **KQ6XY**, Angels Camp

*\* denotes Lifetime Honorary Member*

ANSWER to "scrambled" word in the last issue: "WAVELENGTH"

Scrambled word for this issue... **TEPKAC**

**CARS OFFICERS**

**President**  
**Ken Sanders, AE6LA**  
 795-5947  
[ae6la@aol.com](mailto:ae6la@aol.com)

**Vice President**  
**Steve Airola, W6RXX**  
 754-5565  
[stevea@goldrush.com](mailto:stevea@goldrush.com)

**Secretary**  
**Patsy Clark KN6XW**  
 795-5652  
[jimnpat1@sbcglobal.com](mailto:jimnpat1@sbcglobal.com)

**Treasurer**  
**Bill Holmes, K6DUY**  
 728-9439  
[hinterland01@dishmail.net](mailto:hinterland01@dishmail.net)

**Net Manager**  
**Fred Soderer, WB6QVI**  
 728-9868  
[wb6qvi@eudoraimail.com](mailto:wb6qvi@eudoraimail.com)

**Public Info Officer**  
**J. Davenport, KI6ART**  
 795-7507  
[ki6art@arrl.net](mailto:ki6art@arrl.net)

DON'T FORGET TO USE  
**"REPEATER ETIQUETTE"**  
 WHEN USING THE **CARS**  
 N6FRG REPEATER !  
 73  
 EDITOR....



**ARES/RACES EC PROFILE - PT BROWN, KG6FEY, EC . . .**

**Here is a brief overview of our ARES/RACES Emergency Coordinator....**

Attended San Francisco State University for Radio TV Broadcast Engineering.

While In the U.S.Army, PT worked HF and VHF radio/carrier at White Sands Missile Range in New Mexico, and was assigned to the "President's Board" at Ft. Bliss Texas for the Air Defense Command working with NORAD.

He retired from the Emergency Control Center for 911, at Pacific Bell after 37 years, where he provided emergency information to police, fire, FBI, Secret Service and DEA for California, and Nevada.

Provided NSEP radio (National Security) and "Shares" radio system for the U. S. Government.

Currently, PT is a member of CARS, Red Cross Sacramento Division, CalFire VIP, ARES, ARRL, and Calaveras OES.

CARS is very fortunate to have an experienced ham like PT, who is trained and dedicated to emergency communications....editor.



Red Cross ECRV– Console



Red Cross ECRV– Full View



KG6FEY's Emergency Response Truck Console

## MINUTES OF JANUARY 15TH MEETING...

At 6:45pm AE6LA/Ken-President opened the meeting by welcoming the attendees to CARS' first 2009 bi-monthly meeting held at First American Title in Angels Camp. The total attendees were twenty two members and one guest.

The minutes from December 11, 2008 business meeting were accepted into record as written without discussion.

The outgoing treasurer, AC6CY/Lynn reported an ending balance of \$1,795 as of January 10, 2009. Lynn advised that the club's ARRL insurance bill recently arrived, and has not yet been paid. The amount due is \$320, which needs to be paid before March 1, 2009. The transfer of the outgoing treasurer's records to K6DUY/Bill were handled after the conclusion of the business meeting.



W6RXK/Steve in the December, 2008 meeting suggested changing the bi-monthly business meetings to the "Odd Fellows Hall" in Angels Camp, which would allow more seating and kitchen access. Lynn and Ken toured the facility prior to January 15th meeting, and Ken showed pictures of the facility. Also, Ken advised that the selection of IOOF hall would mandate the moving of our meetings from the third Thursday to the second Thursday of the odd months, due to the hall not being available. A fee of \$25 for use of the hall will be charged by IOOF so it was suggested to ask for a voluntary (not mandatory) donation of \$1 from each attendee to help lessen the financial impact on CARS finances. It was unanimously passed to change the bi-monthly meeting's location to the IOOF Hall and the meeting day to the second Thursday of every odd month in 2009 .

Steve also spoke about calendaring a series of possible educational presentations at the business meetings. The suggested array of topics: PG&E talking about grounding systems; commercial broadcasting; contesting; DX'ing; amplifiers; a representative from the Office of Emergency Services in Sacramento talking about disaster preparation; MARS presentation; individual HAM's sharing interesting stories involving amateur radio and its impact on their life. These are just a few of the many interesting presentations under consideration for 2009.

Ken advised that the repeater committee is hopeful in having 441.025 up and running in the very near future. More information to follow at a later date.

Ken further stated that a NARC meeting is scheduled on February 24<sup>th</sup>, where one of the topics to be discussed will be the "D-Star" problem.

KI6ART/John talked about his lack of success in setting a meeting with Calaveras County Foundation to get a better understanding of CCF's parameters around grant submissions and awards.

NV6V/Andy reported that Fowler Peak is performing well; on the other hand Andy advised that IRLP is currently in a roller coaster mode which he plans on being straightened out in the near future.

KG6FEY/PT stressed the importance of being current on the NIMS/ICS training focusing on those of us who signed up as volunteers with Calaveras County Sheriff's Office of Emergency Services (OES) where NIMS/ICS training is a requirement. NIMS is the acronym for National Incident Management System; ICS is the acronym for Incident Command System. All ARES/RACES/ACS operators should take ICS-100; ICS-200; ICS-700; ICS-800 and ICS-802. All information is available at "www.fema.gov/nims", and all lessons and tests can be downloaded and taken at your own leisure.

PT advised he will announce his team selection of three Assistant Emergency Coordinators (AECs) for Calaveras County at the March business meeting .

**Continued on Page 6**

**MINUTES...cont'd from Page 5**

It was a unanimous decision to concentrate CARS efforts and its focus with OES (Office of Emergency Services) volunteering with the Sheriff's Department versus spreading among the various local groups.

K6DUY/Bill has agreed to be ARRL field day coordinator for 2009 which will be held again at Bear Valley on June 27-28 so mark your calendars. It is a fun and rewarding event especially when followed by a pot luck dinner on Saturday. Bill indicated there will be a field day planning meeting with field day participants at his home in March. The day and time will be forthcoming.

WB6QVI/Fred-Net Manager advised he currently has five net control volunteers for the weekly Monday night net. The volunteers are WS6P/Sam; KF6GQX/Ray; KC8DHV/Dan; NV6V/Andy; and AC6CY/Lynn. Fred would like to round out the year so he will continue soliciting for more members to step up and take a turn being net control. It is fun and rewarding plus it is good training directing net traffic. While the five named were willing to sign up for more net controls, Fred held firm on wanting to offer others in CARS the opportunity to share in the fun of being a net control operator.

KC8DHV/Dan proposed establishing an annual Club Recognition Award which was well received by the attending members. Parameters for determining the criteria for the award(s) will be determined as 2009 progresses.

A swap meet/potluck BBQ was proposed for consideration. After much discussion, it was decided to place in abeyance for further discussion.

NV6V/Andy asked if there was any interest in setting up a station during Frog Jump at the fairgrounds. The suggestion peaked a lot of interest so Andy is taking the lead to see if it is feasible to do in 2009 and determining the best way to spread the word should the decision be made to go forward this year. K3UG/Barry suggested one way of getting the information out relatively fast would be by posting on ARRL's web site which lists weekly club activities. A decision will be made at the March business meeting whether to go forward with the suggestion or place in abeyance for 2010.

There have been comments heard about the pleasure of being a CARS member because of the club's pro-activeness in trying new things. It is mostly directed towards Ken and his enthusiasm of trying new ways to utilize the air waves of amateur radio through the computer and the sharing of his enthusiasm with any and all who will listen. Ken has been a key motivator in the building of CARS membership by his sharing of the joy in learning new things and the friendliness in his voice over the radio.

Ken asked that CARS not forget about VE testing availability throughout 2009. While actual test dates have not been established, it was noted that anyone who wants to become a HAM or simply upgrade a current license, can do so by contacting KI6ART/John. John will make arrangements to line up the VE's, schedule a testing date and location; it is that simple.

The meeting officially adjourned at 8:12 pm.....

After the meeting, Ken did a packet Outpost demonstration which was very informative. The demonstration showed another interesting way of communicating through the use of ham radio and a computer.

NOTE: KN6XW/Patsy-Secretary was out of town, so please direct all comments and suggestions to K6MAB/Miriam regarding listening skills transcribed to notes.

73/Miriam K6MAB

**Ever wonder about communications equipment installed** in a American Red Cross **ECRV** (Emergency Communications Response Vehicle)? Here is information about the ECRVs, their purpose and equipment provided by the Red Cross:

“These vehicles will be placed strategically around the United States for fast response in times of need. As the Red Cross is the Congressionally mandated agency to act in times of disaster to help ease the suffering caused by disaster, these vehicles will be a great resource when normal modes of communications fail.

Each ECRV vehicle is designed to support both Red Cross Disaster Relief communications, and the specialized communications of public safety agencies including fire departments, police departments, FEMA, Civil Air Patrol, search and rescue, FBI, and many others.”

[See Photos on Page 8-](#)

### **Front console**

- \* IC 706 MK II-G
- \* Bendix-King EMV (460 UHF)
- \* Vertex FTL1011BH/99
- \* Bendix-King GMH (150 VHF)
- \* BC780 XLT Scanner
- \* Midland 79-290 CB
- \* Cell phone, LEO satellite
- \* Cell phone, conventional
- \* Cell phone, NexTel

### **Operator's console**

- \* RELM Plus (400 UHF)
- \* Bendix-King EMV (460 UHF)
- \* Bendix-King GMH (150 VHF)
- \* Vertex FTL1011BH/99
- \* BC780 XLT Scanner
- \* ICOM Aircraft Band Radio
- \* Motorola Micom 2E
- \* Kenwood TS-2000
- \* VSAT satellite system
- \* SGC SmartPowerCube 500W RF amplifier
- \* SGC SmarTuner Antenna tuner
- \* Datron DSS system
- \* Davis Weather Station
- \* JPS radio switch and phone patch system
- \* Toshiba VCR
- \* Kantronics 98 TNC

### **Roof Deck**

- \* 16 assorted radio antennas, mounted
- \* storage under roof deck for additional antennas & mast sections
- \* A 52' pneumatic mast with N-type RF runs
- \* Yaesu antenna rotator
- \* Pan-Tilt remote control camera
- \* Datron automatic deployment DSS dish
- \* AMSC satellite phone antenna
- \* Davis weather station
- \* 12 NMO mounts
- \* AVL technologies Vsat dish
- \* Mosley TA-33 Jr. Tri-band HF Yagi

### **Left outside compartment (aka I/O Panel)**

- \* 12VDC
- \* 3 antenna connections
- \* F-type connections for external V-sat dish
- \* DSS out
- \* Broadcast TV in
- \* eight analog phone lines in (connect to PSTN)
- \* eight analog phone lines out (VoIP from Vsat)
- \* Six network connections
- \* Mast controls
- \* 2 120vac GFCI outlets

### **Left Side**

- \* SGC 1.8 - 30 MHz. 9' HF Whip

### **Under the hood**

- \* 8kw AuraGen engine driven generator



DRIVERS CONSOLE



OPERATING STATION...NOTE VIDEO



OPERATING STATION



EMERGENCY POWER



TYPICAL ECRV AS DEPLOYED



DEPLOYED COMMUNICATIONS ANTENNAS

**HOW CURRENT IS YOUR NIMS TRAINING...?** By David Coursey, N5FDL

All ARES/RACES/ACS operators should take ICS-100, ICS-200, ICS-700, ICS-800, and the new ICS-802 course that describes the communication functions in the National Response Framework. Many of us should probably retake the ICS-100 and ICS-200 courses that were updated last summer. The ICS-802 course is new as of last August, so it is new to almost everyone.

If the course allows you to download the final exam questions, please do so. I will be much easier to follow the course and pass the exam, as the questions are sometimes unclear. See website "<http://n5fdl.com/>"

PT, KG6FEY, Emergency Coordinator

**FIELD DAY 2009– Bill Holmes**

To all CARS members:

FIELD DAY will again be in the month of June ( 27<sup>th</sup> & 28<sup>th</sup>), which are a Saturday & Sunday.

It is time to start thinking about the equipment and accommodations, whether it's a Super Diesel Pusher, a lowly 5th wheel, a pull trailer, a tent, or heaven forbid, sleeping on the ground.

Field Day will again be the "glorious, heavenly, thin clean air" of the 8,000 foot Mt. Reba location in BEAR VALLEY. This will be our 3rd year at this location, and as before I would expect a record number of contacts and participants.

Last year we had a "whale of a time", great food, clowning around watching the "big guns" trying to put up their huge antennas, and we often roared with laughter as everything fell out of the sky.

So, put this date on your calendar; antennas are the name of the game, so come up with some configuration that no one else has, and let's "knock 'em" dead.

73

**Bill Holmes- K6DUY**

**President's Message....cont'd from Page 1**

I hope Bill, K6DUY, and I can work on our GE MII repeater project here in my garage workshop. We have a "high inject" ICOM unit to install, and align on the receive side. If that works out, we will be ready to start interfacing to a tone board and controller.

I am following our July 08, IRS – 1023, 501(c)3 nonprofit exemption application. The IRS website indicates they are assigning it to a case worker this month. I actually hope to hear from the IRS. Hi Hi.

Andy, NV6V, and I are making plans to once again attend EMCOMM WEST. That will be May 1 – 3 in Reno. ([www.emcommwest.org/](http://www.emcommwest.org/)) I think we will be using my 22' motor home for this event.

I am planning on attending the NARCC board meeting on January 24th.

Please check the CARS, Inc. website, <http://www.calaverasars.org>, and plan to join us on the Monday night Nets, club breakfasts, and Bi-monthly meetings.

**PS: Have a look at the "Section" meeting minutes Andy posted on the website...interesting!!**

73, Ken – AE6LA



## NBEMS– NARROW BAND EMERGENCY MESSAGING SYSTEM

### NBEMS...THE WHAT AND THE WHERE – SAM WS6P

Hello all, it has been several years since I sat down and wrote for a newsletter, I'm sure that it will come back to me. Well, John, KI6ART, asked me to give an update on how we are doing with NBEMS, but before I give an update let me provide you with some background on NBEMS...

So, just what is NBEMS? It stands for **N**arrow **B**and **E**mergency **M**essaging **S**ystem. The software incorporates several different digital modes, but we have been using mainly PSK and MFSK. So why is this different from MixW, MultPSK, or DigiPan? NBEMS has incorporated two software packages in the "fldigi" suite. The main one is called **FLDIGI**; this is short for **F**ast **L**ight **D**IGI**I**tal. This package includes the following digital modes:

**CW**; **DominoEX** 4, 5, 8, 11, 16, 22; **Feld-Hell**; **Slow-Hell**; **Feld-HellX5**, X9; **FSK-Hell**; **FSK-Hell** 105; **Hell-80**; **MFSK-4**, 8,16, 22, 31, 32, 64; **MT-63/500**, 1000, 2000; **QPSK-31**, 63, 125, 250; **PSK-31**, 63, 125, 250; **OLIVIA**; **RTTY**; **Thor-4**, 5, 8, 11, 16, 22; **Throb-1**, 2, 4; **ThrobX-1**, 2, 4.

With all of these modes this software package is very versatile in emergency situations, or for the casual QSO. It also includes a WWV mode as well as a frequency analysis and sound card calibration mode.

The second software package is called **FLARQ**, which is short for **F**ast **L**ight **A**utomatic **R**epeat re**Q**uest. This is the real bread and butter of NBEMS. It allows the transfer of console messages, computer files, and emails to another station with 100% copy. This will work in noisy and poor band conditions. FLARQ has the ability to interface with Microsoft's Outlook Express. This interface allows us to create emails in FLARQ out in the field and send it to a station with an Internet connection where it can be forward. It also has a beaconing feature that allows two stations to connect, so that the FLARQ feature can be used.

NBEMS uses the computer's sound card to receive and send the digital signals. So minimal interfacing is necessary. A connection from the radio's speaker output to the PC microphone connection, and from the PC's speaker output to either the radio's data input or the radio's microphone input are the main connections. A connection from the PC to the PTT is all that is left to complete the interface. I built the interface cable for my FT-897D, which has a Digital VOX to trigger the transmitter, so I just needed the audio portion. And of course, you can use commercial interfaces such as RIGblaster, Signalink, or MFJ.

Now that you have a brief background on the software...the NBEMS team has been passing emails, radiograms, and talking directly using the NBEMS software for the past 9-10 months. In the beginning, we were full of questions. While installing, configuring the software on our PCs, and connecting to our radios, we became very discouraged due to the newness of the software, but we were able to work through it. Now, each team member is able to help others in setting up the software and hardware used.

In the beginning, we worked on creating and sending email, using the FLARQ to transport it to the next station. Also, we concentrated on receiving and passing emails from station to station, so we can get familiar with the use of the software, and become familiar with handing off the email to the Internet. This worked out very well, as each of the team members became more proficient at these tasks.

The team began thinking out of the box, by looking outside of the county. We adopted the use of *QForms*, this software package allows the creation of Radiograms as well as ICS-213 messages. This gave us a way to pass formal messages to the National Traffic System, as well as moving messages within the National Incident Management System (NIMS).

The team has tried several HF frequencies, and have settled on using 18.104 MHz (17M), USB + 1500 Hz as our home base frequency. There are several recommended frequencies that we use. You will need a General Class license or above to send, with the exception of the 10m band where Novice and Technicians have transmitting privileges. But you can always listen.

NOTE: we are always looking for more participants.

**Cont'd on Page 11....**

**NBEMS– NARROW BAND EMERGENCY MESSAGING SYSTEM– CONT'D****NBEMS....cont'd from page 10**

Also, we use the club's N6FRG repeater for any voice communications, and for coordination.

We meet on Wednesday nights at approximately 8:30 pm. Currently, we have team members in Calaveras, Amador, and Tuolumne Counties. I am aware that the Amador ARES/RACES team is looking into adding NBEMS to their arsenal of emergency communication tools. Looking forward, we will be trying 2M, SSB, more work on NVIS communications, and possibly a Simulated Emergency Test. Of course, you can contact one of the team members to ask if you can stop by during a Wednesday night Net to see NBEMS in action.

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Below are the recommended frequencies:

80m - 3.584 MHz

40m - 7.074 MHz

20m - 14.094 MHz

17m - 18.104 MHz

15m - 21.094 MHz

12m - 24.920 MHz

10m - 28.124 MHz

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Looking forward, we will be trying 2M, SSB, more work on NVIS communications, and possibly a Simulated Emergency Test. Of course, you can contact one of the team members to ask if you can stop by during a Wednesday night Net to see NBEMS in action.

Lastly, without the NBEMS team this article could not be possible, so I would like to thank them for their participation, as well as their frustrations. So, my thanks to the following participating team members:

Andy - **NV6V**, Carl - **NI6Z** Dave - **KB6PNT**, Grayson - **KE6KYI**, Greg - **KI6QLE**,  
John - **KI6ART**, Ken - **AE6LA**, PT - **KG6FEY**, Ray - **ND6S**, and <<Your Call Sign>>

73

Sam

WS6P

NBEMS Net Control

West Point



))) — Rrrribit

Thanks to all who sent in articles and information for this issue of the "Wavelength".....Editor

### Cont'd from Page 7...ECRV

There is also provisions for installation of 10 wireless laptops and telephones, and the radios can be programmed for operation on any public safety frequency.

The JPS interconnect system enables the vehicle to operate as a "cross band" repeater between any two radio systems. This means that, for example, two independent fire districts could be dynamically linked together during an emergency situation.

Several governments in the U.S. have adopted this approach to linking normally disconnected organizations - without the expense of replacing large radio systems to provide common communications frequencies.

There will be three of these vehicle on the West coast - Phoenix, AZ, Sacramento, CA and Spokane, WA. Phoenix has recently received their unit (CRV- 3701) for use in communication support of the Grand Canyon Chapter's operations.

### LOOKING for a local eatery with good food and service?

This editor had two opportunities to check out SUSIE'S DINER in Arnold....a 1950's - 1960's motif diner with great food, excellent service, and is exceptionally clean!



Owned by Sue and Bob Huntsinger @ 1308 Oak Circle (795-5156) behind the El Dorado Bank...Sue has been waitressing in Arnold for many years, and really knows how to treat customers, so she and cook hubby recently opened their own diner. Stop by, and ask for "Sue"...you'll be glad you did!

Editor....KI6ART

### Next Bi-Monthly Meeting

Thursday, March 12th, 2009

IIOF Hall

Angels Camp

Meeting: 6:45 PM

### Breakfast Meetings

First Saturday of Each Month

Main Street Cafe, Angels Camp (Temporary)

9:00 AM