



AARC OVER

Bulletin of the Austin Amateur Radio Club
November 1991

Meeting

Tuesday, November 12, 1991, at 8 PM. Luby's Cafeteria on North Loop, about a block west of Burnet Road. We meet in the back room. Many folks come at 7 or 7:30 and have supper together.

Bringing Solar Electricity to Earth is the title of a video to be shown. This 1990 production of the Electric Power Research Institute shows the state-of-the-art in photovoltaics and solar thermal. Courtesy of Larry Gunter, WB5BEK.

All AARC functions are non-smoking.



Let The Tower Lights Be Burning

If the warning lights go out on your antenna tower, you had better get them fixed PDQ! That is the lesson learned by David R. Price, owner of a defunct commercial AM station. It seems that Price's station got behind on its electric bill, so the power company cut off service. That killed the lights on the station's six 390-ft. towers, located 2-1/2 miles from an airport. FCC staff had a hard time locating Price to tell him to get the lights back on, and when they finally did he took several weeks to respond that he was trying to sell the station and he "hoped" the new buyer would restore the lights.

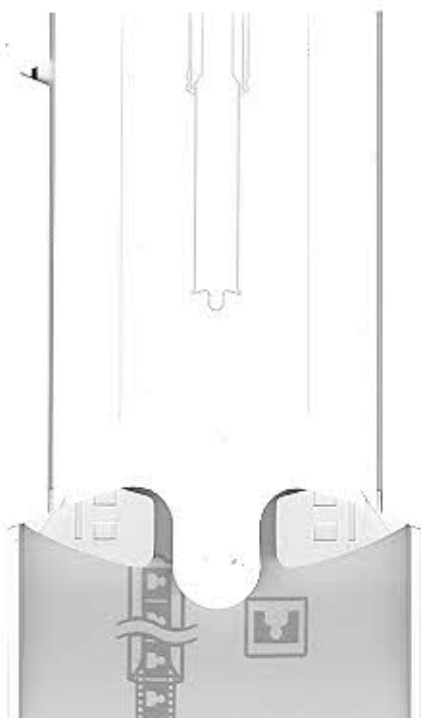
The FCC was not amused. Price faces a quarter-million-dollar fine and loss of station license. To add insult to injury, the FCC may dismantle the towers.

Automotive RFI

Here is a collection of stories of what can happen to late-model cars in the vicinity of ham transmitters, collected from the FIDONet Ham Radio echo:

- 1) "My '89 Aerostar goes into "accelerate" mode if I operate my rig in the car."
- 2) "I know from first hand experience that a 45W 2-meter transmitter will activate the burglar alarm on new Corvettes that happen to be near by. I triggered one in a supermarket parking lot. I also have a friend whose Ford Thunderbird alarm is triggered by his 2 meter transmitter. The electric dashboard instruments of my 83 Camaro go wild when I transmit at 45 watts in the car. Another friend told me that he killed the engine of a late model Buick every time he transmitted while the two cars were waiting at a stoplight. Once he discovered what was happening, he made a game out of it and annoyed the other driver no end."
- 3) "I have a 90 Jeep Wrangler and I cannot use the 30-meter band because there is a 10 Mhz computer chip (I guess) somewhere in the beast and whenever I xmit (even QRP) the motor turns off."
- 4) "My 1980 Ford Mustang cruise control accelerates when I transmit on certain frequencies on 2m in the car."
- 5) "The RCA TAC-200 in my trunk (100w at 6m) regularly keys car alarms. Much fun is to be had by keying down in a parking structure."

Continued on Page 5



Gentlemen of the Air

Since getting my Technician Plus ticket a couple of months ago, I have worked CW almost exclusively. Any ham is missing something if he / she never QSOs with older CW operators, the "gentlemen of the airwaves". They are educated and very courteous, and most love to help Hams develop their CW skills. CW operators are getting statistically older as younger Hams opt for the easier modes. I love talking to these older guys. They have such a wealth of knowledge and experience that is unique to CW. Many of them only use CW. I could listen to their old stories for hours.

I've met some very interesting ops who've been at it since before I was born. One recent contact was with a guy who got his ticket in 1919! He is a retired radio engineer from old Ma' Bell and had a 2KW spark-gap transmitter on 200 meters!

Another was an old Navy op who was using a key from the U.S.S. Fremont. It was used to key the yardarm lights. I told him that my stepdad was an old Navy signalman, and he sent us both a QSL card. Just might help me get my stepdad to get his ticket.

I'm not saying that anyone must learn / use / enjoy code! Just relating my good experiences and telling anyone else interested in communicating with some interesting and experienced ops who helped build this hobby that they MIGHT want to CONSIDER warming up the old fist.

I want to meet more of these Hams before they leave the hobby, for whatever reasons. So, if I have to learn CW at 25 wpm to do it, I'm gonna. And I know I'll be glad I did. Extra Class, look out! I hope CW never dies and that CW operators continue to epitomize what's good and fascinating about Amateur Radio.

de Wallace Blackburn, N8MWU

Exam Results

Here are the results of the October 5th, 1991, W5YI ham exams.

There were 17 total applicants, with the following upgrading, or getting new licenses.

Darryl Clutter	Novice
Margaret Achey	Technician
David Reno	Technician
David Carter	Technician
Marlene Doolen	Technician
Margaret Blevins	Technician
Kevin Cobb	Technician
Karl Thomason	KB5POR .. Technician+
James Stewart	KB5QCZ .. General
Joseph Thiel	N5SMN ... Advanced
William Pierson ...	K5TMS Extra

Congratulation to all of the above. The next W5YI exams will be December 7, 1991 at Murchison Jr High.. Please be there by 8:30, and please bring a copy of your license and any certificates, as well as the original.

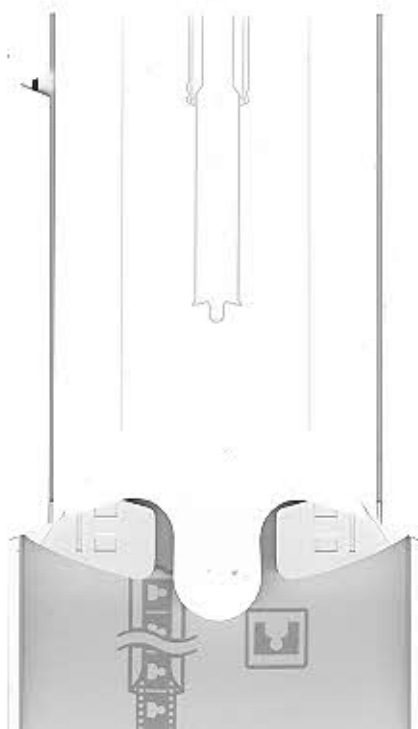
For further information call Bill 272-8233 after 6 P.M.

I would like to thank the VE's that helped with the exams: Al VanAllen and Gary Pickens.

de Bill Wehling, KF5NB

New Antique Store

Antique Audio, a national mail-order store established in Houston in 1979, is now doing business in Austin. The company sells, repairs, and restores vintage equipment, and sells parts. If you need cloth-covered AC line cord, vintage vacuum tubes, high-voltage capacitors, or other similar items, check them out. Location is 5555 North Lamar, Building H-105. Telephone 467-0304.



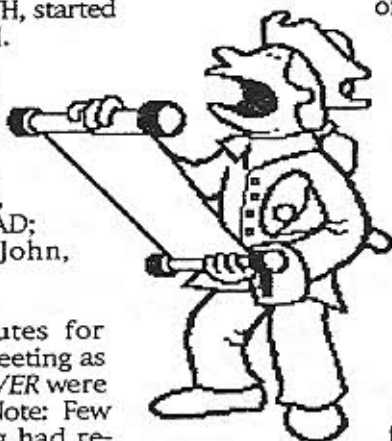
Minutes

Meeting of the Austin Amateur Radio Club for October 8, 1991:

President Mike Kellam, AA5JP, had to leave town this morning and so our Vice President Stuart Rohre, K5KVH, started the meeting at 8:00 PM.

VISITORS: The first item was a request for our visitors to introduce themselves. These included Darrell, N5SBG; Chester, N5UAD; Jack, N5TLW; and John, N5QBX.

MINUTES: The minutes for the August 13, 1991, meeting as printed in the AARCOVER were approved as printed. (Note: Few attending that meeting had received their newsletter). For the second month in a row, the newsletter is late. Approval of the September 10, minutes is postponed until next month.



...a local monthly electronic swapfest for tailgaters only...

OFFICER REPORTS: Treasurer Amado Ramirez, N5PCP, reports a checking account balance of \$1,666.92. We have paid all bills and have sent our annual donation of \$50.00 to the Red Cross. Amado had a few copies of a financial statement available. He urged everyone to make sure that the club has your current address.

Secretary Joe Canfield and Vice President Stuart Rohre elaborated on the mailing problems. The last two issues of the newsletter have not been received until 6 to 10 days after being delivered to the post office. It costs 35 cents for the post office to notify us that a copy of the

newsletter cannot be delivered. Then they return it instead of forwarding it. We know of instances where they have been returned with a note that there is no forwarding address, when one had been given them. The best procedure for members who move is to directly notify us of the address change. There are convenient card forms for this. Pete, K5GM, reminded us that changing the address does not change the club records of telephone numbers. Please give them to a club officer or Pete so that the next roster will be accurate.

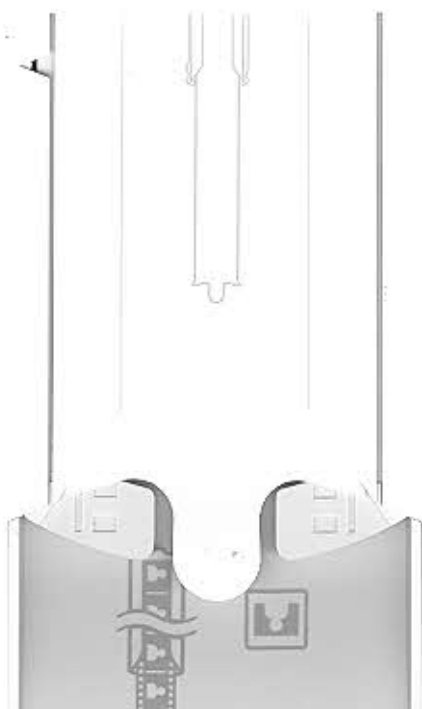
The Secretary has call letter license plate forms.

Technical Committee Chairman Ed Golla, K3AHS, has heard of some deliberate interference to various repeaters, including ours. He notes that those asking the offender to get off the air have had no success. (The offender is believed to be listening on both 2 meters, and to those looking for him and using the 70 cm repeaters for coordination).

Gary Pickens, WX5Z, our Activities Manager, reminded everyone of the Manchaca Swapfest this coming Saturday. Gary still needs some volunteers for assisting with traffic and clean-up.

NEW MEMBERS: We again have a good group of new members. These are: Jeff Hanna, N5TLP; Tom King, Jr., N5VPH; David Lidback, N5MNV; Walter Evans, K5SQCE; Wes Mossman, N5QCP; a renewal for George Frimpter, WB5TXW; and new member Milly Nunis who is awaiting her new call. Welcome to all.

ANNOUNCEMENTS: Rick, K5FNI, has learned of a local monthly electronic swapfest for tailgaters only. This will be on the second Saturday of each month and will be in the parking lot just west and



behind Ruben's at 8311 Research Blvd (this is on the north side just west of the Jeep/Eagle and Pontiac auto dealerships). This is sponsored by an electronics surplus dealer who plans to open his adjacent warehouse. Dave, KG5ND, has copies of the W5YI report of the FCC proposed changes to the autopatch use rules. A short discussion followed.

Dave also reminded us of the "DX get-together" near Burnet this coming Saturday. The new manager of the incoming QSL Bureau will be there.

OLD BUSINESS: None.

NEW BUSINESS: Elections for new officers will be in the December meeting. A nominating committee is now being appointed by the President. Jim Bennett is the only member whose name has been announced. (Secretary: Any member may nominate, from the floor, any member for any office during the election).

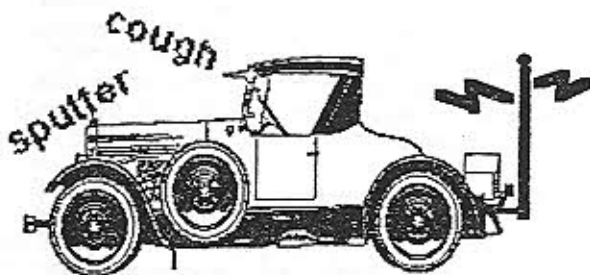
PROGRAM: Tonight's program was announced in the AARCOVER (that you have not received) as a "show and share". This is an opportunity for you to tell about and hopefully show off some project you are working on. A few of those that were available were: Joe Fisher, K5EJL, talked about the local ARES use of the ARRL World Grid Locator Atlas (Maidenhead System) for stating your location. Stuart, K5KVH, showed a ladder-line built with materials from the local lumber yard. Curt, W4QBU, showed both a way to drill a large round hole and keeping it round and how to silver-plate objects with used hypo (from a photo shop). Rick, K5FNI, explained how he and Pete, K5GM, have used a computer to control their radios.

Thanks to all who, on a very short notice, presented their projects.

Respectfully submitted by Joe Canfield, N5HPC, AARC Secretary.

Automotive RFI from page 2

6) "I've never had any emission or susceptibility problems in my '87 Acura Integra. I run 50w on 2m, and 35w on 440 into on-glass antennas on the rear window. One time though, a friend was following me and we were talking on 2m simplex. He



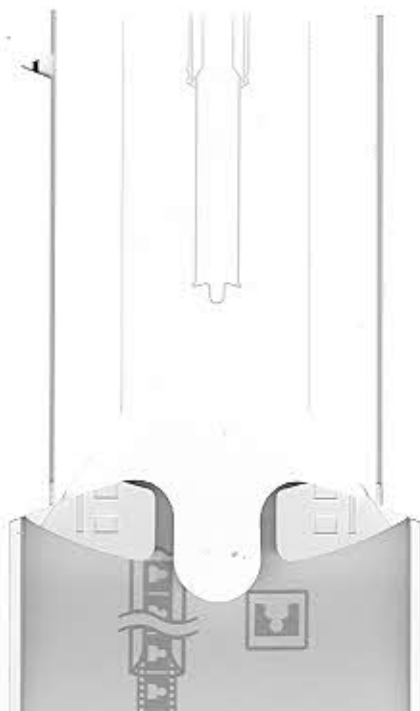
was driving an '86 or '87 Chevy Cavalier. When he pulled up behind me at a stop light and I was transmitting... his dash electronics went nuts.. the tach pegged, indicators flashed, and I think the seat belt dinger went off. He also had *some* problems when he transmitted

7) "My father's Volvo 480 suffers a fuel-injection 'hiccup' whenever I key or de-key my 50-watt 2-meter radio. I have also set off auto alarms with 25 watts on 440 MHz. Also I am told that some Toyota models have a nasty harmonic of the digital clock xtal which hits 145.4 MHz."

What to do? Here are two suggestions.

1) Route the power lead to the radio as far from electronic components in the car as possible, as well as the coax to the antenna. Check a service manual to see where the components are located. Also, it is claimed the best method is to hook both the positive lead and the ground directly to the battery. Bad grounds won't help your cause any.

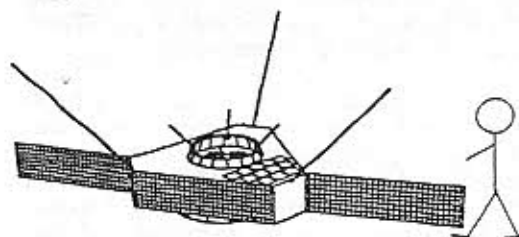
2) If you have a General Motors car, get their RF interference booklet, available at GM service centers.



Future Dims for 5 VDC

If you have been stocking up on 5 volt DC power supplies, you may be aiming 2 volts too high. According to EDN magazine, "standard" 5 volt dynamic memory chips (DRAM's) are going to need only 3 or 3.3 volts when their new 64 megabit versions become available. It seems that the capacitors on the higher-density chips will not be able to withstand a full 5 volts, because their dielectrics will be so thin. On-chip reduction from 5 to 3 volts will not be an option, due to the heat dissipation problem.

The big question is whether 3.3 volts or 3.0 volts will be the new standard. Some makers favor 3.3, but that would require three cells in battery-powered equipment instead of the 2 cells required if 3.0 volts were adopted.



WD4FAB's conception of AMSAT's Phase III-D ham radio satellite, approved for launch aboard Ariane flight 502 in October 1995. Weight 1,100 lb., span 22 ft. For AMSAT membership information write AMSAT-NA, 850 Sligo Ave., Silver Spring, Maryland 20910.

Anyone having equipment suitable for use by a school amateur radio club, or knowing of a club needing such equipment, please contact the AARC VP or secretary.

The AARCOVER

Monthly Newsletter of the Austin Amateur Radio Club.

Officers

Mike Kellam, AA5JP, President 836-7688
 Stuart Rohre, K5KVH, V. President 255-3932
 Amado Ramirez, N5PCP, Treasurer 280-1879
 Joe Canfield, N5HPC, Secretary 258-4761
 Gary Pickens, WX5Z, Activity Mgr 454-3230

Committees & Positions

Ed Golla, K3AHS, Technical 255-4818
 Joe Fisher, K5EJL, Emerg Coord'tor 926-4689
 <your name here>, AARCOVER Editor .. 555-1212
 Pete Jordahl, K5GM, Labels & Roster 454-7889
 <your name here>, Public Info Officer 555-1212

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

Members are encouraged to submit material for publication. Submissions may be edited for format, style and suitability. Address articles, letters to the editor, etc. to The AARCOVER, POB 13473, Austin, Texas 78711, or transfer by modem to Joe Canfield, 258-4761. Deadline for the next issue is the 15th of this month. Late material will be saved for next month.

We grant permission to reprint AARCOVER articles provided that you credit the author and the AARCOVER.

The Austin Amateur Radio Club, Inc., maintains a repeater with open autopatch and emergency power on 146.78 MHz, and an emergency station at the American Red Cross Building. Membership dues are \$6 per calendar year (\$10 for a family), pro-rated for those joining during the year. Membership for the rest of 1991 is only \$1.50 (\$2.50 family). Please contact an officer if you would like to join, or come to the meeting.



Stopping RFI Can Be Child's Play...

If you have well-heeled children, that is. Areenco Products, Inc. (Ossining, NY), has devised a conductive Play-Doh-like material designed for filling holes or gaps in electronic equipment. The putty contains silver, and it bonds to metals, glass, ceramic, and polyethylene. It can be mixed with an additional liquid to produce a conductive coating. It can be used to keep radio waves inside equipment, or to keep them out. Cost is \$95 a pint.

de Design News



HEY AL, I'M FINALLY GETTING TO OPERATE MARITIME MOBILE!

The familiar police "10" code was developed to compensate for the initial delay inherent in dynamotor-powered mobile units. Even if the "10" was lost at the beginning of a mobile's message, the important stuff still came through after the dynamotor came up to speed.

November 1991

ATV Club

Camera Amateurs

The Austin Amateur Television Club met on October 15, 1991 at the Sirloin Stockade 8828 Research. Everyone was reminded that dues are due before the election of officers at the November meeting.



The ATV repeater was turned on shortly after last month's meeting. The color video ID'er was clearly visible in Northwest Austin and in Wimberly. There was some de-sense seen in the received pictures.

On the evening of October 14 it was noted that the repeater could not be brought up. Bob, W8ZSX, visited the site and found that the tower owners were in the process of switching some hard line around and we should be back on shortly. Bob also took along two more 7-pole filters to add between the receiver and transmitter to help reduce receiver de-sense problems.

Bob, brought a 2304 MHz transverter to the meeting that he had been working on that comes out on 144 Mhz for SSB. He said that he would eventually re-work it for ATV. All present agreed that we might want to split the repeater into two sites connecting them via 2.3 GHz. This would provide two alternate modes of operation: 2.3 GHz in / 426 out, and 439 in / 2.3 GHz out.

The next club meeting will be the usual third Tuesday, November 19th, at the Sirloin Stockade, 8828 Research. There is usually some ATV activity Monday evenings from around 9 PM—10 PM with 2 meter sideband coordination on 144.20 MHz, then moving to 144.26. For more info on ATV contact W8ZSX, WA8PLR or N5MHI.

de Jon Penner, N5MHI, 335-0220

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Guest Editorial

Closed Repeaters

I'm getting extremely tired of people telling me I can't use a particular frequency. "Sorry, members only." "Well, how do I become a member?" "You contact WX6XXX, and if he approves of you he can nominate you for membership." "And if he doesn't like me?" "Then you can't use this repeater." This is very close to an actual conversation I had on a repeater locally. Is this right? Isn't my Extra Class license good for all frequencies in the Amateur service?



The point is made that if you use a repeater then you should support it. I agree. But to exclude certain people? Only allow the select few the privilege? This isn't right. By doing this they have in effect torn off a little spectrum meant for all Amateurs and made it their own exclusively.

Maybe a solution is to allow closed systems as long as no one wants the frequency for an open repeater. At that time the closed system would open, or they would lose the sanction. It's only fair. Can you imagine what all the new amateurs think when they're run off repeater after repeater because it's "closed?" They'll think they could have stayed with CB and gotten that kind of abuse.

de Tim Low, N6ZUC, and "The Readout"

Oakland Fires

Amateurs were used in the Oakland Calif. fires, especially by the Red Cross. In an interesting note, people were asked not to use their cellular phones because of the heavy use by emergency forces. They were able to overload most cells in the area.

de Roy Engehausen, AA4RE, R.A.C.E.S.

Calendar

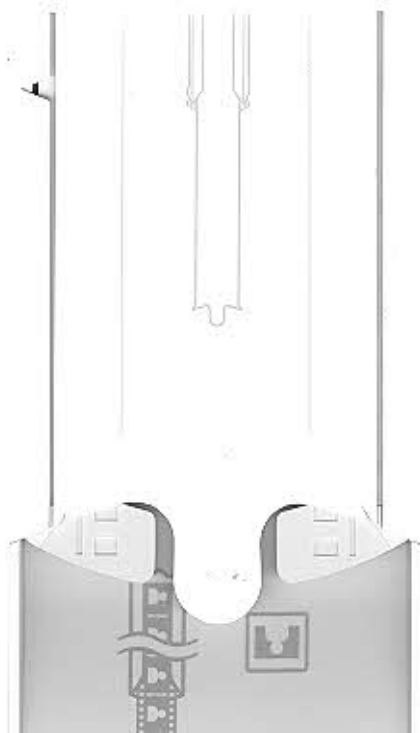
- Nov. 9 Ham Exams @ Murchison, 8:30 AM
- Nov. 9 Transmitter Hunt (7 PM, 146.52)
- Nov. 9-10 Houston Ham Conv. w/ Musa
- Nov. 10-11 U.S. Viet Nam Memorial S.E.S.
- Nov. 12 Free quit-smoking clinic, American Cancer Society, 928-1144
- Nov. 12 Austin Amateur Radio Club
- Nov. 16-18 Sweepstakes, phone
- Nov. 19 Austin Amateur TV Club meeting
- Nov. 21 Univ. of Texas ARC Meeting
- Dec. 3 ARO Meeting
- Dec. 6-8 160 meter contest
- Dec. 10 Austin Amateur Radio Club
- Dec. 14-15 10 meter contest
- Jan. 2 Soviet Space Exhib. ends (Ft. Worth)
- Jan. 14 NO AARC MEETING (Banquet instead)
- Jan. 18 AARC Banquet @ Zilker Clubhouse
- Jan. 25 San Antonio Hamfest / Swapmeet
- Feb. 1-8 16th Winter Ham Meet, Aspen
- Mar. 7 3M Skywarn class
- June 27-28 Field Day 92

[S.E.S. signifies Special Event Station]



Weekly Events

- AMSAT Net...Sundays, 5 PM, 224.14 MHz
- ARES Net...Sundays, 6:30 PM, 146.94 MHz
- SwapNet & Newslines...Sundays, 9 PM, 146.94 MHz
- UT ARC Net...Tuesdays, 9:30 PM, 147.18 MHz
- LunchNet...Thursdays, BurgerTex on Airport Blvd.
- QCWA Net...Thursdays, 8:15 PM, 147.18 MHz
- Breakfast...Saturdays, Simon David deli.
- WeatherNet...as needed, 146.94 MHz



TRAVIS COUNTY SET - 1991

For many radio amateurs the Simulated Emergency Test is probably little more than a vague set of letters that happen to spell a word. The annual announcement article on page 45 of QST for September 1991 was probably missed by most readers. There was a photo of several camouflage-dressed soldiers carrying a stretcher toward a helicopter. The article subtitle queried "... How will you be involved?". This year, for the first time in a long time, a dozen Travis County Amateur Radio Emergency Service (ARES) members would "be involved."

Unlike Field Day each June which has an operating contest format, the SET is a locally conceived and staged event whose activities may be coordinated with nets of the National Traffic System (NTS) or another ARES group to cover a wider geographical area. The exercise is planned by the local Emergency Coordinator (EC) and assistants, preferably with as little advance notice to participants as practicable. ARES members and any other amateurs must rely upon prearranged plans and procedures and adapt them to simulated emergency conditions.

Planning for this year's SET activities began with several meetings of Travis and Williamson County ARES leadership to discuss the possibility of some type of "joint" exercise. Since the Williamson County group had already committed to assist with the Outlaw Trail 100 bicycle race staged from Round Rock on October 19, the national SET weekend, it seemed appropriate for Travis County ARES to practice an alert and mobilization to

assist in Williamson County. "The best-laid plans" however, are just that until they are practiced.

As several of the Travis County ARES members have mobile ATV or packet capability, it was decided that employing these modes for the race would be desirable if it were feasible. The geography of the course covered the western half of the county and no permanently installed repeater could provide even FM voice communications along the entire route. ATV operation would definitely require a repeater but there was no plan for implementing a portable repeater.

Pat McGuire, WA8PLR, Assistant EC, and Bob Templin, W8ZSX, had successfully experimented with an ATV repeater (420 Mhz AM in, 1.2 Ghz FM out) several weeks earlier. Brad Rehm, KV5V, Williamson County EC, volunteered his 100 foot tower near the center of the race course for the repeater site and it was agreed to give it a try. To preserve a flavor of spontaneity Pat and Brad would install the repeater the night before the race and we would hope for the best.

SEP scoring rules provide that 10 points be added to a group's total for each emergency powered repeater used during the exercise. As the entire repeater was 12 Vdc two large 6V storage batteries were taken to the site the night before the race and put on charge.

Starting time for the race was 8:00 a.m. so at 7:03 Saturday morning the Telephone Alert Plan went into operation. This plan is a complex affair designed around a hierarchical or "tree" structure but arranged so that most calls are within a phone



AMATEUR RADIO EMERGENCY SERVICE REGISTRATION FORM

Name: _____ Call: _____

Address: _____

City: _____ State/Prov.: _____ Zip/F: _____

Bus. phone: _____ Home phone: _____

License Class: _____ Primary radio Interest: _____

Check (✓) bands/modes you can operate:

	160	80	40	20	15	10	6
CW							
FM							
RTTY							
SSB							
MOBILE							
PACKET							

IF OPERATING PACKET, THE CALLSIGN OF YOUR PBBS IS: _____

Can your home station operate without commercial power? Yes No

If yes what bands? _____ Date: _____

Signed: _____

Detach and send to your EC (if known) or the ARRL, 225 Main St., N.

To All Radio Amateurs:

The Amateur Radio Emergency Service (ARES) is a voluntary organization who have registered their capabilities and equipment for providing emergency service to the community. The purpose of the ARES is to furnish communication disaster, when regular communications fail or are inadequate. Sponsored by the local level to meet local communications needs.

The ARES has a long history of public service going back to its formal inception the ARES has responded countless times to communications emergencies. Experience has proven that radio amateurs respond more capably in times of disaster than in an organized group. There is no substitute for experience. The ARES in each locality operates under the direction of the Emergency Coordinator to direct the activities of the ARES to maintain a state of readiness.

To register in the ARES, send the detachable Registration Form above directly to your EC. League membership is not required. All amateur ARES. There is provision in the ARES for every amateur regardless of class or personal circumstances.

Won't you join us in providing this essential Amateur Radio service?

company switch office or exchange; the concept is that in a communications emergency some exchanges will be inoperable and other working methods will have to be used. The tree level goes to 5 along some paths.

There must have been some sleepy "ullo..." answers of ARES members (or courses!), but by 7:34 Rick Herndon, FNI, brought up the ARES net as Net control on the 146.94 repeater and began reading "situation information." Instructions called for those amateurs who could participate to report to the near North staging area": the parking lot of the H.E.B. store on IH-35 at the Pflugerville exit. By 8:00 a.m. ARES members had been alerted and reported into the net.

Murphy's first foray into our midst came in the form of battery failure at FNI. K5EJL, manning the staging area and awaiting the arrival of mobile units, temporarily took net control while Rick switched to his backup radio. This rig developed some type of RF/AF feedback and its intelligibility began to deteriorate, when Ron Johnson, WA5RON, announced that he was on the way with another repeater. Murphy had been repulsed.

9:47 11 Travis County ARES mobiles had been dispatched to the race control point in Round Rock and things were looking better. The ATV repeater was putting P4 pictures into Round Rock about 12 miles away. The bow-tie reflector antenna was apparently slightly misaimed, but it was working. WA8PLR and Ben Thornton, WD5HLS, set up along the course. Henry Middlebrook, N5SHL, was manning the ATV setup at the control point while

Dave Effland, N5RNE, set up his packet station beside the ATV gear.

Lou Pacenka, N5ORG; Jim, KB5EHP, and Paula Coker, KB5LGQ; Chuck Inks, W5KNA; John Nodler, N5SXY; and Joe Canfield, N5HPC all did duty as either "rest stop" or "sag wagon" communications. The race was well organized and over 400 cyclists proceeded around four courses. Approximately 12 Williamson County amateurs worked the race, and Bob Kotal, K5RKKX, from Travis County relieved control point NCS for several hours. WA5RON did relief duty on the course during the afternoon shifts.

Although amateur communications were used to coordinate several incidents involving injured or exhausted riders, one interesting application of ATV occurred. At a low point in the course, water from rains of the previous week was standing in the roadway making for slippery conditions. This hazard was not immediately visible to the riders coming over a low rise and down into the water. ATV provided graphic coverage of this for race organizers who dispatched flagmen to the site.

By 4:30 p.m. all courses had been swept and all stations secured. Murphy, however, made one final appearance when it was discovered that in the early morning hustle to setup, no one had actually hooked the ATV repeater up to the batteries; it had run the whole time on commercial power! Oh well, our score wasn't going to be too good anyway; just wait 'til next year.

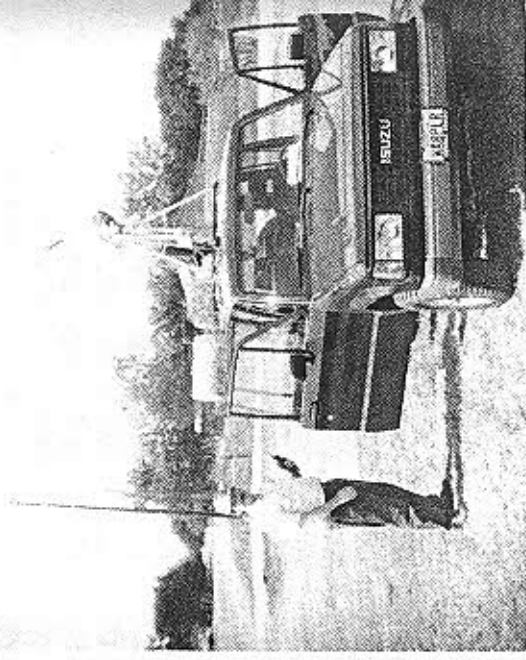
If you are interested in emergency communications, why not take a minute

and fill out the attached Registrar Form and send it to your EC:

In Travis County:
Joe Fisher, K5EJL
5709 Coventry Ln
Austin, TX 78723

In Williamson County:
Brad Rehm, KV5V
20128 Westlake Pkwy
Georgetown, TX 78628

Blanco, Burnet, Llano or
San Saba Counties:
Larry Gensch, K9MBB
503 Whitetail Dr
Georgetown, TX 78628



Ben Thornton, WD5HLS (left) and Pat McGuire, WA8PLR, setup ATV at the Liberty Hill rest stop