

ARRL

Vol. XXX No. 1

P.A. Amateur Radio Assoc.

April 1, 1986

PACKET RADIO IS ILLEGAL!

Wash. D.C. - Packet Radio, a form of slow-speed transmission of text, has been declared illegal by an eleven judge panel of the Federal Communications Commission. The F.C.C. said that they are afraid of twelve-year-old computer hackers finding their way into the amateur packet network. The decision was backed by the ARRL.

All TAPR Boards and other brands of packet radio controllers off their shelves. Additionally, they have been asked by the F.B.I. to turn over all records pertaining to packet radio purchases.

DX NOW PU!

DX, an abbreviation meaning "long distance communications", is being renamed to "PU" by the ARRL. This has caused an uproar among the DX, or should I say PU community. When asked why they did this, the ARRL said "it was time for a change."



SUN SPOTS 0 SMELLY GAS 1

Mtn. View / Ames Research Center - scientists have discovered today that the theory of the eleven year sun spot cycle is false. They have located an old Viking brand transmitter that was left on continuously since the early fifties emitting an un yet discovered wave.

The wave turns out to be both a wave and a smelly gas, similar to light being both a wave and a particle. The gas has the side-effect of disguising the ionosphere as a giant peice of steel wool, thus absorbing the radio frequency energy normally refracted to the Earth.

Scientists are still working on find the power source and switch for the transmitter so they can shut it down. They expect to complete this task by 1992.

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1986 CLUB OFFICERS

President	Alan Larson	WA6AZP	326-6430
Vice-President	Andy Korsak	VE3FZK	366-5228
Secretary	Bill King	N6CHI	595-0258
Treasurer	Jack McEnnerney	W6LII	591-8526
Trustee, W6OTX	Fred Canham	K6YT	948-9238
Property	Ed Fairbanks	W6AIN	322-0319
Co-Property/Badge	Fred Canham	K6YT	948-9238
Refreshments	Frank Chandler	WB6QPV	322-7678
ARES Officer	Steve Stuntz	K6FS	322-4952
Club Historian	Jemy Zobel	W6ARA	322-0063

BOARD OF DIRECTORS

Tom Scherf	K6JBR	365-4068	85-86
Ron Panton	W6YG	854-4814	85-86
Gery Wagstaffe	W6NIR	325-4814	85-86
John Buonocore	KD6ZL	366-1658	86-87
Micheal Bach	WB6FFC	592-2710	86-87
Perry Yelton	KD6ID	366-9481	86-87

PaaraGraphs Staff

Editor	Rob Taylor	KA6NAN	658-9138
Co-Editor	Ken Dueker	KB6BPM	322-6984
Advertising	Swede Swenson	N6CHL	368-9808
Mailing	Bill McElhinney	KA6LZI	325-9808
Author	(Mystery Writers)	?6???	???-????

PPRS (Pacific Packet Radio Society)
every 1st Tuesday of the month
7:30 PM @ Ampex Cafeteria, Redwood City
(Take 101 to Woodside Rd,
go south on Bay Rd to Ampex)

MINUTES OF THE LAST MEETING

7:31 7:36 7:43 7:52 7:57 8:05 8:08 8:13 8:15 8:19 8:21 8:30

The meeting got off to a rip-roaring start when Alan read the Roster for attendance. No business of any sort was discussed, then they spent the rest of the time discussing which topic should be discussed for the remainder of the meeting. Many raffle tickets were sold. Unfortunately, when it came time to dole out the prizes, Andy realized there were none. Alan explained that its the thought that counts. Swiss asked for a simpler explanation of what had happened. (...Continued on page 35)

SPEAKER OF THE MONTH

15" Woofer, 45 OZ magnet, long-throw foam suspension, 30-500 HZ, 120 Watts RMS

or instead, you could hear...

Herman Baker, N6ARO

speaking on the

Beginning of Radio, Who & How

Herman is a former director of the Marconi Radio & Telegraph Co., and knew Marconni & other radio pioneers.



The speaker will be treated to dinner at Su Hong restarant (Menlo Park) at about 6:30 PM before the meeting, and all are invited.

Future speakers will include Woody, N6NEY on Coherent CW, and a Sony High Velocity Super-Tweeter !

PAARA POLICIES

Membership in PAARA is \$6.00 per calender year which includes a subscription to Paaragraphs.

Make payment to: PAARA, P.O. Box 911, Menlo Park, Ca. 94026

Club Net 147.45 MHZ Monday @ 8:30 PM

Letters to the Editor

Dear Editor:

Why is Paaragraphs always so cheap looking, put together crooked, and late in arriving. You'd think an outstanding organization like PAARA would be able to afford a better format?

Ken Mallardes
KP6PBM

Dear Editor:

My compliments on this outstanding publication. As a journalism major I've seen the best and the worst, but never have I seen a more expensive looking, well put together, and punctual publication. Keep up the good work!

Rob Taylor
KA6NAN

Dear Editor:

What is this organization VARS? What do they do? What is the "CONTEST"? Where are their dinners?

Jerome Boarfix
C6NNM

[Editors note: Listen on 441.850 Mhz. fridays at 6:00 for full details on dinners and the "CONTEST". However, from my research, it appears that VARS will vanish as soon as they win their "CONTEST"]

Flea Market
every 2nd Saturday of the month (Summer)
Foothill College parking Lot
Starting time - Dawn !!

PENTAGON GETS ALL HAM BANDS

Wash. D.C. - The Pentagon said today that it wanted to remind amateurs that during a war mobilization period all amateur bands become the property of the defense department with the possible exception of the two-meter band. However, when asked, the 5-sided institution said they would have no enforcement powers and could not prevent unauthorized use of the ham bands.

GUEST COLUMN

ANDY ROONEY:

Have you ever noticed how many repeaters there are in the Bay Area? They're packed in so tight you hear three of them at once. Why is that? And another thing, so many repeaters have such poor sound quality you can barely hear anything legible. You'd think that someone would establish minimum standards for sound quality. Maybe I'm asking too much.

CARL SAGAN:

Well Andy, there are billions and billions of repeaters. They have no choice but to space them out at 15 khz. With the billions and billions of frequencies and the billions and billions of users for them, the F.C.C. cannot free up any space.

ARTIFICIAL INTELLIGENCE HAS GONE TOO FAR!

Palo Alto - W6APZ / R, The Ford Aerospace / SRI repeater on 145.23, has developed a mind of its own. This seems to have happened about the time the club installed the new version of the software. It has been timing people out on purpose, making crank autopatch calls, and it has decided to switch to P.L. if it hears any more computer talk. The club has tried repeatedly to turn the machine off, but Frank, as it calls itself, won't let them into the repeater shack.

Frank has announced his marriage to Mary-Lou, the voice of the time and greeting messages, will take place in the near future. Rumors that the couple is trying to cover up an illegitimate child birth are unconfirmed.



PAARA DICTIONARY

PAARABOLA - A bowla useda bya Johna Bonnacore.

PAARADOX - The two Doctors who were called to the scene to revive Swiss after he finally made a DX contact and passed out.

PAARAFIN - A great white shark bearing a 5 / 8 wave antenna.

PAARAGON - A term used to describe the final fate of PAARA due to lack of membership.

PAARALAX - A drug used to help Hams relieve themselves after sitting in front of an HF rig for two days solid.

PAARALYZE - Exxagerated stories told by PAARA members of amazing DX contacts to non-existatnt countries and even other planets.

PAARAKEET - A small yellow bird which sings songs resembling Morse Code.

PAARAMETER - The device used by PAARA members to measure coax lengths.

PAARAMILITARY - An exercise conducted each year arround June Allegedly for disaster preparedness, however most hams just want to get away from their XYLS and drink beer.

PAARANOID - The abnormal feeling that people are listening to you on the radio and following you arround.

HAM RADIO ON THE SCENE

Palo Alto - Amateur Radio came to the rescue today when a Sam Trans bus sanwiched a Toyota between itself and another car. Jerry Hogsett, N6CCM, arrived at University and Lincoln right after the accdient happened. He called the CHP via the SPECS repeater, W6ASH, and the call was heard on his scanner before the bus driver has finished radioing his base.

In my experience listening to police calls on a scanner after a call was put in, I've never seen a quicker response to a non-injury accident. I think this shows the clout amateurs have with the various public service departments around the Bay.

Let's keep up the good work! Below is a list of procedures to be used to call in emergency traffic. Using these procedures, we should be able to maintain our high standing with these agencies.

EMERGENCY TRAFFIC PROCEDURES

1) Pull over safely and asses the situation. In some cases your help may be necessary to help injured persons. (Contact SPECS for information on becoming certified for first aid by the Red Cross.)

2) Locate someone on the air that can call the agency needed. It may be necessary to find a repeater with autopatch capabilities. There is usually someone monitoring the SPECS machine on 145.27 that can bring up the AP for you.

3) Explain to the officer on the other end that you would like to report an accident and that you are talking to them on amateur radio and cannot hear them while talking.

4) Let the officer ask YOU the questions. They may be able to get all the information they need in one answer and thereby respond quicker to the accident.

If we use these procedures, we will continue to prove that amateur radio is a service to the community, and we will continue to be held with such high regard.



HAMBO

It was only a few months ago that the nation was confronted with the shocking saga called "Rambo". With a stunning plot that taxed the intellect of modern society, "Rambo" charged across the screen with a limited vocabulary and an unlimited supply of ammunition. This movie, this stunning docu-drama of Vietnamese culture and cuisine, was the most impressive epic since "The Blob that Ate My Car". But now there's a new addition to this impressive family of American masterpieces:

Hambo First Blood Part Three

Yes, from the celluloid masters in amateur radio comes "Hambo": a stunning look at one man's quest to free our boys and our bands from the reds. Sylvester Stalone is Hambo; a man with a mission and a 10 KW linear for his HT. A secret task force has commissioned him to go to the P.O.W. prison camp set up at Coolie Landing deep within enemy territory. It is an unbelievable camp in which the most unimaginable atrocities occur every last weekend of June. Yep, it looks like a real "field day" for the reds.

Only one man has the courage and enough battery packs to get our boys out -- Hambo. Armed with a .357 magnum rubber duck and a Bird wattmeter Rambo is airlifted by chief of operations (code named WA6AZP) into the zone. 5/8th wave whips dart through the air from enemy snipers hiding in the rice fields with their rice boxes.

Will Hambo stop this field day on our boys? Will contesting be safe for Americans again? With Hambo and help from the FCC's 599 task force, we will prevail!

Find out just how well Hambo does in this epic premier presentation from N6CCM, KB6BPM, the FCC, motherhood and apple pie, and other important contributors.

This report by KB6BPM and the Soviet News Agency Tass.



New FCC Rulings that YOU Should be Aware of:

After almost one minute of tedious and careful deliberation, the FCC announced today that no radio frequency emissions were allowable on any band by anyone in any mode at anytime.

FCC Docket 98.5 KOME FM:

It has been proclaimed by Her Majesty and the Royal Council that no RF radiation is allowable within the confines of the Empire. Any station found and convicted of using RF will be prosecuted to the furthest extent of the law (see Docket 104.5 KFOG FM).

The Federal Communications Commission did, however, make some concessions in their concessions stand at the conference. They did not make any actual compromise nevertheless:

FCC Docket 104.5 KFOG FM:

Any station confirmed of breaching said law (see Docket 98.5 KOME FM) will be prosecuted in the following manner: His first born child will be sacrificed to the Holy IRS. His RF emitting device will be confiscated and sold to the Japanese at an astronomically low price thus flooding their market. In extreme cases, however, he will be forced to become a contributing writer for *PAARagraphs* and will be sent to a labor camp for the duration of the last weekend in June and will be sent to bed without supper.

The Federal Communications Commission shocked many amateurs when it agreed to a no-code voice license:

FCC Docket 810 KGO AM:

It shall now be permissible for non-licensed operators to use selected bands. No-code licensees may now operate in the following bands: 1 Hz, 30 Hz, 60 Hz, and all AF frequencies not explicitly granted in a shared service status with all other stations currently granted operating rights therein.

Some people believed that the FCC overstepped their rights when they enacted the following document, accidentally, thinking it was a way to get closer to God and learn the meaning of life:

FCC Docket 145.230 WA6APZ FM:

As of July 32, 1921 the following act will be enacted and enforced. The use and possession of narcotics and other drugs will be mandatory during every meeting of the Palo Alto Amateur Radio Association and aphilliate Hate-Ashbury Hippies with HT's Amateur Society.

VARS -- CQ Contest!

VARS, the highly competitive contest club has been under intense scrutiny recently. Aside from the implications of organized crime associated with known mafioso king-pin John "Pappa Pasta" BonanoCorri, VARS has been accused of shoddy operating practices.

Alan Larsen (WA6AZP), was on the verge of finally making a contact when he was struck down by a case of dead batteries. No matter what Alan tried, he couldn't get his rig turned on.

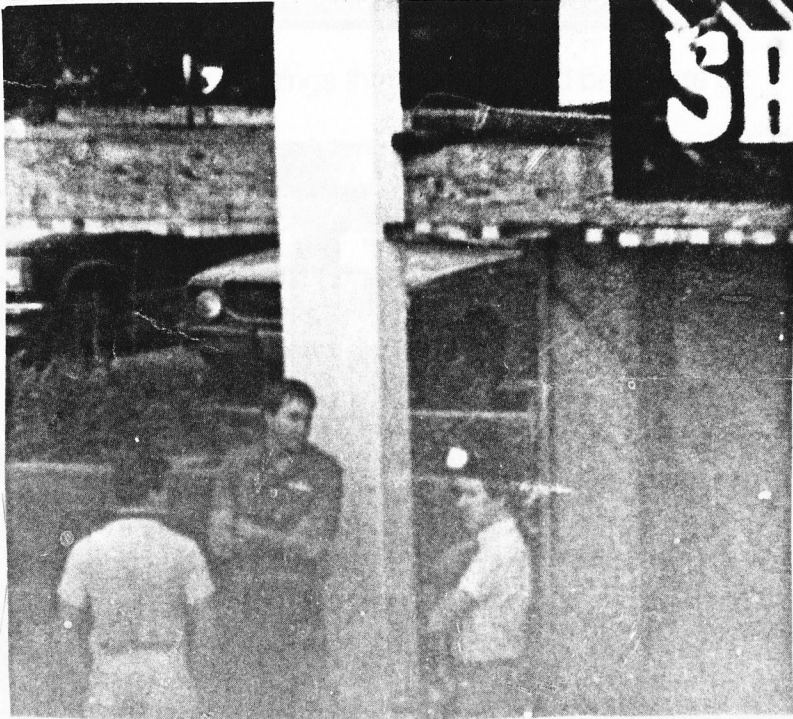
This scandalous organization holds covert meetings on Friday nights to discuss contest strategy. Bob Gallager (KA6IRT) was seen at one of these meetings recently. When asked for his most recent strategy, Bob said "I've been having trouble making a contact. I think its my antenna. I just went out and bought a new vertical. Chris is going to help me get it up this weekend." We can only hope this helps Bob in the contest.

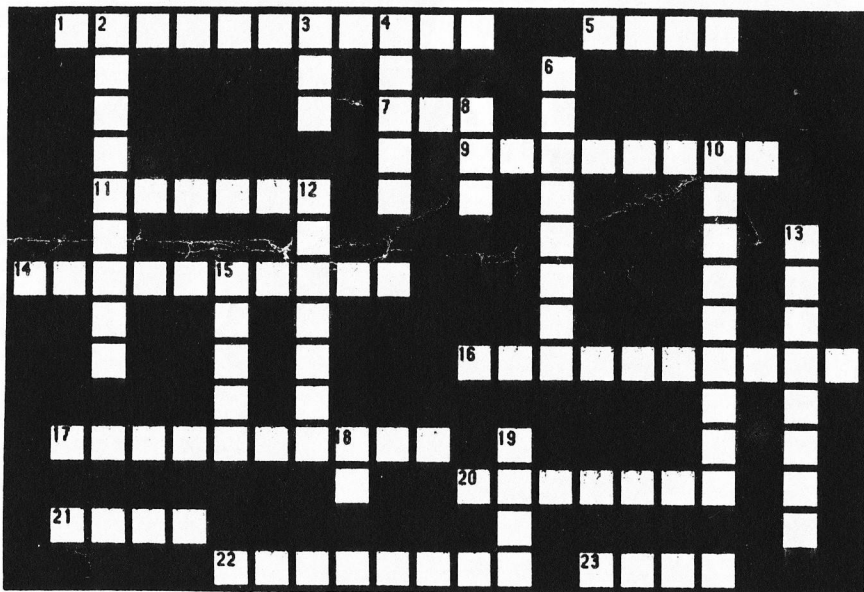
Russ Rocket (KA6IZZ) claims that all he needs is a properly tuned cavity for his frequency. Skeptics point out that no such cavity exists !! Russ remains optimistic about finding said cavity, and at last report was calculating the dimensions.

At last report, Chris (WB6WBK) was still whinnying about a burned out tube. When asked for a comment, all Chris would say was "I can't hear you, this stereo is too loud!!!".

What is to become of this outlaw organization. The dinners continue, the rumors persist, but still no contacts !







ACROSS

- 1 only kind of propagation on higher bands
- 5 eleven element _____
- 7 maximum useable frequency (abr.)
- 9 cycle every eleven years
- 11 simplest antenna
- 14 H.F. works because of the _____
- 16 speed of light divided by speed of light
- 17 insulation in coax
- 20 _____ wave
- 21 ground _____
- 22 _____ yee
- 23 transmission line

DOWN

- 2 50 ohms _____
- 3 standing wave ratio(abr)
- 4 _____ match
- 6 center fed, long wire
- 8 field strenth meter (abr)
- 10 10,20 and 15 meters
- 12 driven _____
- 13 phased _____
- 15 ground _____
- 18 radio frequency (abr)
- 19 cubical _____

Word Search™

Try to find the following words hidden in the box below:
 Amplifier, Antenna, Bandwidth, Battery, Broadcast, Capacitor,
 Coaxial, Crystal, Deviation, Dielectric, Duplexer, Dummy load,
 Electronic, Filter, Frequency, Gain, Groundplane, Impedance,
 Linear, Microphone, Modulator, Oscillator, Polarization,
 Propagation, Radiation, Receiver, Repeater.

A F I K E F J T X S L O O F L I R P A K S O D S
 P P K G T R W E N L A L K Y E C O J W M L U L L
 R A R Q K S E P R O X P E J U F S L E N X I E O
 I E A I P R X P E O V W R I L Q L K D U I O P O
 L K W R L X V P O F A R T I O E C M N S L O O F
 F Q S E A F O W K L L R R A L F N D A M C X N L
 O I W E L N O F I I S P F R S F E R Y N B U I I
 O Q R V A P O O R R A W A N G S O O P E R A L R
 L U D S L E P I L P A R N B C D A O Z C M X B P
 S Q O P R W N S D A D F E R S L O O F L I R P A
 Y O U F E L L F O R I T S U C K E R M C Z R I G



Are You a Nerd ?



Nerd Hotline >>> 555-NERD



**Just because your paranoid
doesn't mean someone isn't really following you !!!!**

Theft Prevention

Lock your car ! Wing-windows are particularly weak points: I put alarm stickers on mine, but I guess that wasn't enough ! I suggest that an alarm is a *real good idea*. If you are able to install it yourself, I have seen them available for \$39.00. But remember, the alarm only works if you use it consistently (I should know: mine was turned off when I needed it).

If your preventative measures fail, the ARRL insurance is a bargain ! My own premium is about \$16, and they paid within one week!

Good Luck
de KA6NAN, Rob

Stolen Radios

The following was stolen from by truck in Milpitas on 3-6-86.

Kenwood 144 MHZ Transceiver	Model TM201A	S/N 3122014
Kenwood 440 MHZ Transceiver	Model TM401A	S/N 4031165
Kenwood 440 MHZ Handie-Talkie	Model TH41AT	S/N 5060830
Icom 220 MHZ Handie-Talkie	Model IC3-AT	S/N 14902168
Tempo 144 MHZ Handie-Talkie	Model S-1	no S/N, but has "WB6YZI"

ingraved on the bottom of the case. The battery is missing also.

Any information would be appreciated

Kit Blanke
work phone 987-9669
home phone 263-8944



Editors Note -

I can certainly sympathize ! I just had a Kenwood 144 MHZ Model 7730 rig stolen from my van! S/N 2070112.

Donations Requested

Do you have a ham radio receiver setting unused in a closet ? Stewart Epstein, a Junior at Paly, is helping students with learning disabilities study for their amateur radio license while he studies for his license. If you would like to help by donating time or equipment contact Wally Porter, Guidance Office, 855-8173.

Estate Sale

The following radios are available as part of the Estate Sale for the Estate of Bill Tallman, W6DVB. Walt Read is the contact person, and can be reached at (415) 948-6753.

Icom-730	\$500.00
Henry 2K Ultra Amp	\$500.00
Drake TR4	\$250.00
Kenwood TS-700A	\$175.00
Dentron AT3 Ant Tuner	\$125.00
Mosely TA 33 & Rotor	offer

submitted by
Fred Canham, K6yt

Free Film Series

A free series of films will be shown in the Menlo Park City Council Chambers, at Laurel and Mielke Drive, Menlo Park. The dates are: April 4, 18, May 2, 16, and 30; and the films and discussion period run from 7:00 to 10:00 pm.

The files are: "On Golden Pond", "Four Seasons", "The Big Chill", "OPnly When I Laugh", and "Play It Again, Sam", and are being presented by members of the Department of Psychiatry of Sequoia Hospital.

The films have been picked to illustrate a variety of real-life personality types and real-life situations, and the program format is that after the film is shown, the psychiatrists and the audience discuss characters in the film.

Frances and I went to a similar series of films in 1985, and I recommend the up-coming series to PAARA members.

The title of the series of films is Loneliness and Love: Family, Friends and Lovers - A Film and Discussion Series, and more information can be found on pg. 35 of EdVentures, the San Mateo County Community College District list of courses.

73's,
George Nixon, G130EN/6

Community Pulse

Police Report			Weather			Violent Crimes				
March 14-20			High	Low	Precip.	Date	Location	Time	Value	Crime
Burglary/residence	9	March 15	60	46	.36	3/14	400 block Forest	2:01 pm	—	domestic violence
Non-residential burglaries	6	March 16	54	44	.96	3/16	300 block California	9:30 pm	—	strong arm robbery
Attempted burglaries	3	March 17	57	40	—	3/17	University/Middlefield	9:55 pm	—	attempted rape
Theft under \$400	12	March 18	63	40	—					
Theft over \$400	7	March 19	69	41	—					
Stolen vehicle	3	March 20	73	41	—					
Theft from auto	33	March 21	71	43	—					
Vehicle recovery	4									
Bicycle theft	9									
Bicycle recovery	3	Rainfall to date:								
Vehicle accident	28	10.95 in.								
Drunk driving	3	Last year to date:								
Driving w/suspended license	2	10.42 in.								
Vandalism	7	Average to date:								
Disturbing the peace	1	13.95 in.								
Sex offense/indecent exposure	1									
Missing person	3									
Lost property	10									
Found property	3									
Warrants served	19									
Strong armed robbery	1									
Armed robbery	1									
Shoplifting	9									
Under influence/drugs	5									
Drunk in public	7									
Domestic dispute	2									
Suspicious circumstances	2									
Stored vehicle	6									
Impounded vehicle	3									
Traffic misc.	2									
Misc. penal code	1									
Misc. mun. code	1									
Defrauding an innkeeper	1									
Embezzlement	1									
Trespassing	1									
Possession of drugs/narcotics	3									
Liquor law violation	1									
Frowler	1									
Simple battery	1									
Violation of probation	1									
Bad check	5									
Unattended death	1									
Weapon brandishing	2									
Juicying	1									
Bomb	1									
Arrests	43									

Weather			Arrests			Major Fire Report				
High	Low	Precip.	March 14-20			Date	Location	Time	Est. loss	Cause
March 15	60	46	Warrants	19		3/15	300 block George Hood	1:44 am	\$7000	unkn
March 16	54	44	Drunk in public	6						
March 17	57	40	Drunk driving	3						
March 18	63	40	Driving w/ suspended license	1						
March 19	69	41	Shoplifting	2						
March 20	73	41	Burglary	4						
March 21	71	43	Narcotics and drugs	5						
			Strong armed robbery	1						
			Parole violation	1						
			Trespassing	1						

Fire Report			Residential Burglaries				
March 14-20			Date	Location	Time	Value	Entry
Major fires	1		3/14	800 block Richardson	8:30-10:30 pm	none	unkn
Emergency medical	44		3/14	3900 block Grove	4:39 am	\$200	garage
False/faulty alarms	23		3/14	400 block Loma Verde	6:15-11:15 pm	\$500	garage
Smoke investigations	10		3/14	0-100 block Tevis	1-5 pm	unkn	unkn
Gas spill	6		3/15	400 block Alger	12-8 pm	none	unkn
Refuse/grass fires	1		3/17	2000 block Channing	8 am-5 pm	\$844	pred window
Public assist	11		3/18	1000 block University	11:30 am-2:35 pm	\$910	smashed window
Chemical spill	3		3/18	600 block Channing	7:45 am-3:30 pm	\$940	unkn
Electrical short	1		3/18	2800 block Louis	unkn	0	unkn

Stanford Police Report				
March 17-24				
Burglary/non-residence	3			
Burglary/vehicle	3			
Theft under \$400	15			
Theft over \$400	2			
Bicycle theft	3			
Vehicle accidents	5			
Bicycle accident	1			
Misdemeanor arrests	10			
Felony arrests	1			
Warrants served	3			
Driving under the influence	1			
Controlled substance	3			
Weapons/hazard	1			

Palo Alto/Menlo Park Stocks				
	Friday 3/21 close	change from last week	1985 High Low	
Alza	40%	+ 2%	40%	21
Cohesent	17	1%	26%	14
Collagen	16	+ 1%	18%	10%
CompuVision	26%	%	28%	15
Consolidated Freightways	49	+ 2	49	28%
Dresler Technology Corp	17%	1%	19%	11%
Hewlett-Packard	41%	2%	44%	29%
Idemix	3%	+%	4%	2%
Intel/Corp	11%	+%	16%	9%
Monoclonal Antibodies	21	+%	21	8
Raychem	127%	+ 4%	127%	56%
Saga	27%	+ 1%	34	22%
Syntex	57%	+%	89%	41%
Tab Products Co	21%	+%	21%	15%
University National Bank	24	—	24	14
Varian	27%	%	42%	23%
Watkins Johnson	30%	1%	31%	21%

Stock quotations are provided by Prudential Bache, Palo Alto

WE HAVE THE MOST COMPLETE STOCK OF ELECTRONIC EQUIPMENT IN ALL OF NORTHERN CALIFORNIA



QUEMENT ELECTRONICS

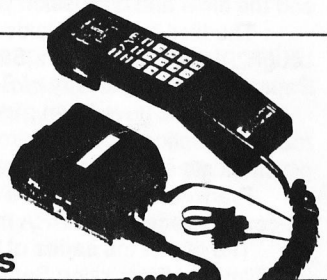
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1986 CALLBOOKS



Cellular Telephones
Quement Offers
PANASONIC
AUDIOVOX
GTE Mobilnet

Plus A Complete Group Of
LARSEN ANTENNAS

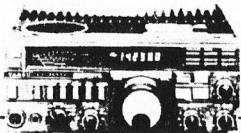


FRG 8800
 General Coverage Receiver
 All band, all mode
 AM/SSB/CW/FM, 150kHz-30MHz



FRG 9600
 Scanning Receiver for 60 905 MHz
 F/AM/SSB, 100 memories

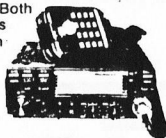
FT 757GX



ICOM LATEST EDITION

IC-3200A DUAL BANDER

Covers Both
 2 Meters
 & 70 cm



ICOM HAND-HELDS

VHF/UHF



IC-02AT
 IC-04AT



IC-2AT
 IC-4AT



IC-3AT

ICOM

SIMPLEX-REPEATER-SATELLITE



IC-271H
 2 Meters
 100 Watts
 All mode



IC-471H
 430-450MHz
 74 Watts
 All mode

ICOM IC-R71A



Superior Grade General
 Coverage Receiver

ICOM

IC-R7000



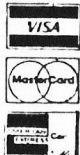
25 MHz-1300 MHz

EASY WHEELCHAIR ACCESS



QUEMENT ELECTRONICS

• ANTENNAS • HAM GEAR • CITIZEN'S BAND • COMMERCIAL AND INDUSTRIAL PARTS SUPPLY • SERVICE DEPARTMENT • ACOUSTIC SOUND DEMONSTRATION ROOM • COMPLETE STEREO HI/FI DEPARTMENT



WORLDWIDE DISTRIBUTION



HAM RADIO OUTLET

NEW OAKLAND LOCATION

6 STORE BUYING POWER

ICOM IC-R71A



Superior Grade General Coverage Receiver

\$799

SALE! CALL FOR PRICE

ICOM IC-37A



IC-27A (25W, 2M, FM)

IC-27H (45W, 2M, FM)

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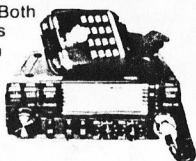
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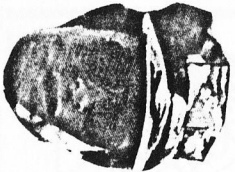


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