

THE LOCAL OSCILLATOR

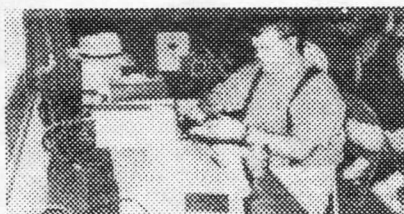


THE PUBLICATION OF THE PANHANDLE AMATEUR RADIO CLUB

THE DAY THE RATTLESNAKE ATE THE LOG BOOK

Field Day on the High Plains

If there is one single word that describes the weather on the High Plains it is "Extreme." It can drop to freezing at night and rise over a hundred during the day. And if the trees reach above your knees they must have been imported so you have to



The "Prez" KA0YOS operating in Kansas. Those are hamburgers cooking on the power supply

bring your own shade. But that doesn't stop Panhandle Hams from getting out there and having a real fun field day any more than torrential rains do in florida



Field Day 1995 at Chips

or cold drizzle does in new hampshire. Chips ranch is located about mid way between Amarillo and Claude. It's not hard to find once you have been there But I drove out and got lost. The simple way is to take 287 out of Amarillo to Washburn and turn south on FM1258. (Look at the map on Page 2) It is a good road for the first five miles. Once you cross FM 1151 you are on dirt for another 4 miles. Below 1151

the road is called Harrel Road County route 3. 4 miles below 1151 look for road J and go west. Look for a red brick house on the north side of the road. Just to the east of it there is a short strip of blacktop that will take you to Chip's.

If it is easier for you to go out South Washington or Osage follow them to 1151 and go East. Ford road is the first

street after the Armstrong County line. It is also dirt. There is a dirt pile on the north side of 1151. If you miss it, that is no problem. The next road is Harrell Road CTY RT 3. Chip's place is half way between the two.

Don, KC5EZO informs me there will be signs along the way to help. Talk-in will be on 146.92 and 444.200. Be sure to bring a side dish to share with the gang for the covered dish supper.

Did the rattlesnake really eat the log book? I don't know. The other excuse is that they never even kept one. Field day out here is for fun. Not for racking up points.

Don KA0YOS has come up with a huge tent so it sounds like we will be working in comfort this year. At the next meeting there will be a discussion concerning exactly how the field day will be set up. Come and join in. Help plan the celebration. In case there is a rain storm we will need your input on locating an alternate site. The meeting this month will be at the Tech Campus at the old air base.

ARES MEETING

June 14 7:30 PM

R A C E S MEETING

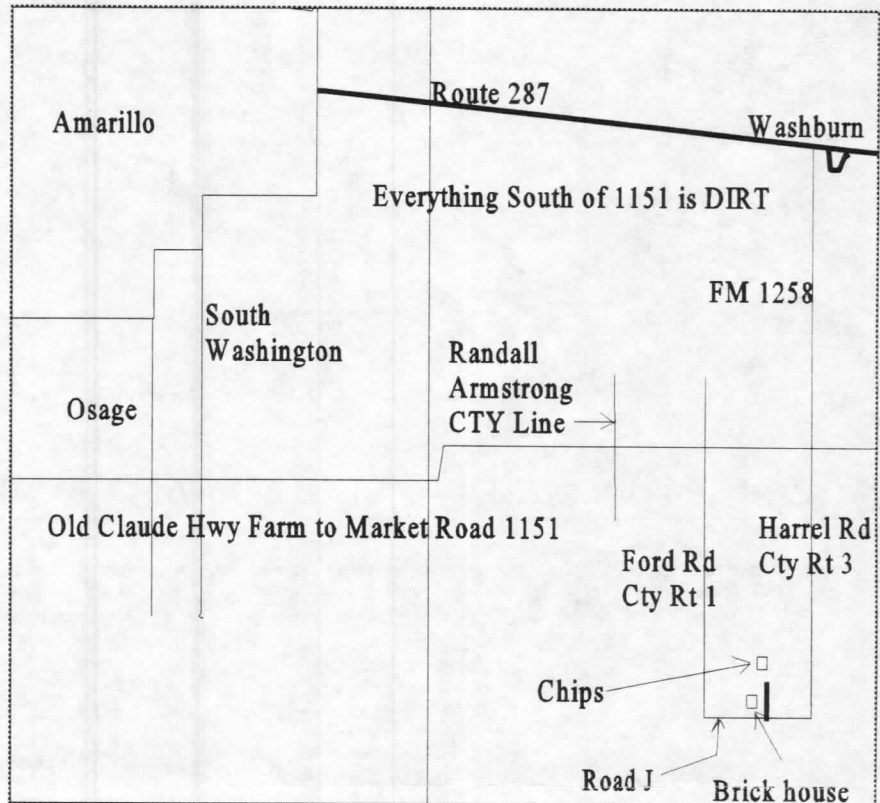
Potter CTY June 28 at EOC

Randall CTY June 21 at fire station

MINUTES OF MAY PARC MEETING

BY MONTY KC5OMK

* Meeting opened by Joe Mayfield. Officers present. Joe, Wally, Robert, Don, & Monty.



Map to Chip's Ranch

* Treasurers report read and accepted.

* Field Day mentioned by Dick. Plans are underway for several fun activities including contesting, transmitter hunts. The Club will supply the Porta Potty. We need an alternate site in case we have bad weather. FIELD DAY IS JUNE 22-23 PLEASE PLAN TO ATTEND!! * Don KC5EZO now has an alias: TENTMEISTER

* June 15 Joe will have a satellite rig at Gene Howe school park. Time is TBA depending on the trajectories. * Wally requested old Field Day Pictures to put in the Oscillator.

* Minutes were read and approved.

* Brett has installed the DVR hardware and plans to program it soon or will defer the programming to someone else on the technical committee.

* Charlie and Brett continues to work on the auxiliary receiver (located at Charlie's house 1 mile northeast of the

Buffalo Stadium) for 146.94. One yagi will be pointed out Highway 60 towards Hereford (Will help the Canyon area) The other yagi will be pointed towards the north to cover South Amarillo better. There will be a UHF link transmitter to transmit to the main Tower.

* Don was requested to check on getting a banner for the club.

* A lengthy discussion was held about who was eligible for the Local Oscillator. It was decided that in general only members will get a hard copy mailed to them. Wally will have the discretion to give away the Oscillator to nonmembers if he believes it to be in the best interest of the PARC to do so. Free Oscillators would be given to nonmembers for a limited time unless the nonmember was contributing to the PARC in some fashion other than dues. (example of exception would be our 94 tower site host)

* Discussion about the PARC having a

Web site was tabled for future discussion.

* The PARC applauded Wally for such a fine job he is doing with the Oscillator.

* Brett announced that the PARC might need to provide ACT some Tower sections. We are currently using tower that is partly owned by the club and partly owned by ACT. They may be moving to a new building and will need tower. We can leave all the tower together we are currently using if we give ACT some other Tower.

* The Technical Committee will consider putting a tone board on 146.66.

* The money in Fix 94 will be transferred into the Technical Fund.

PANHANDLE NET SCHEDULE



Won't it be great when Chip's trees grow up to give shade and hold up antennas?

P.A.I.N. 146.94 8:00PM SUN
*CLOUD CHASERS 145.92 8:00 PM
MON * SIDEWINDERS 144.2 USB
8:00 PM MON *A R E S 146.52 8:00
PM THURS *PANHANDLE
TRAFFIC AND EMERGENCY NET
3933 KHZ LSB 00:00 UTC DAILY
*A M S A T 3840 KHZ 9:00 TUES *S
W LYNX NET 147.56 6:00 PM
THURS

President's Letter

Wow, June already! That means FIELD DAY!!!! This year's Filed Day promises to be a major event in the Panhandle! I want to take advantage of my platform here to heartily invite you to Field Day. Good food, good fun, good fellowship and ham radio who could want more? If you thinking about going GO! If you haven't been to a club function in a while GO! If you're new to the hobby GO! If you've been a ham forever GO! Chip assures me that there is unlimited RV parking and tent space available (sorry no hook ups). I hope to see all of you out there.

While on the topic of Field Day I would strongly encourage you to make the June meeting and find out the Field Day

details. Dick, Chip, Don and many others have been working very hard to make this a smashing success. They will need our help to round out the details, so see you there to volunteer.

June will be busy in general. The weekend before Field Day there will be an OSCAR dry run in Amarillo. Let me encourage you to stop by there as well. I would like to see you try your hand at satellite operations. Please see

the satellite column for details.

Also, Hamcom is this month as well. I know it is difficult for many folks to get away to the metroplex for a hamfest, but if you have the opportunity you should make the trip at least once. It can be a real recharge of your ham radio juices. Only a very few hamfests in the nation (Dayton, Atlanta, ???) can claim to be larger.

So 73, and CU at Field Day,
Joe ka0yos@amsat.org

URL OF THE MONTH.

My nomination would be
www.scott.net/~wa4fat

This one has Amateur Newslines and you can hear the audio just by clicking on the week you want. Usually the last 4 weeks are archived there. It requires a suitable browser such as Netscape or Explorer and TrueSpeech. TrueSpeech is available to download for free.

It also has a direct link to the ualr callsign server, so you can enter a callsign and immediately get the holders name, address, birthday, license class, and expiration date. It is usually within updated every 24-72 directly from the FCC database. You can see your upgrade here before you get it in the mail. (I did !)

See you & 73. Reddy KC5JIF

Got a favorite URL? Share it with us.
Wally

Satellite Roundup !!!

We'll take a break from our history lesson to look at Field Day. In general contesting is strongly discouraged on the birds. They are a limited resource and it is possible to actually damage them by having to

many people running too much power into the transponder. Field Day is the only "contest" allowed on the birds (excluding receiving contests). The ARRL rules look at all birds as one "band" if you work a station on AO-13 cw and then work him on AO-10 cw that is a dupe. In the AMSAT rules they count as separate contacts. The ARRL gives a 100 point bonus for making a satellite contact then the rest are scored the same as all other contacts. One satellite station does NOT add to your ARRL transmitter count. In the AMSAT rules the scoring is the same except each satellite counts as a separate "band" and packets up/downloads count for 5 points. IF YOU HAVE A WORKING PACKSAT STATION THAT WE CAN USE FOR FIELD DAY CALL ME AT 359-5884.

For the sake of practice we will be making a dry run of our satellite station on June 15th from 9:00am to 1:00pm. OSCAR 10 will be our main objective, but we hope to work/hear AO-10, DO-17, FO-20, RS 12/13, and AO-27. We will meet in the park adjacent to Gene Howe elementary school arrive early if you want to help set up. Not all of the equipment needed is in hand. We still would like to round up the following gear: batteries (to power the station), a fifteen meter antenna (for mode K), feed lines (I have some, but it is getting old), A two meter amp/preamp combo (10 watts in please), a notebook/laptop computer (for logging), a compass (to get an idea which way the antennas are pointing), and a lantern (for light at night).

We should be able to make quite a few QSOs on the analog satellites during Field Day. Our old friend AO-13 will not be favorable for either weekend, but AO-10 should provide some excitement. If you have any questions

about the PARC satellite Field Day effort feel free to call me at 359-5884, or E-mail me at ka0yos@amsat.org

73, and looking forward to seeing You At Field Day, Joe ka0yos

*** 11th. Annual Key City Amateur Radio Club Hamfest

5/4/96 to 5/5/96 Abilene, TX

Abilene Civic Center - 1100 North Sixth St. Abilene, Texas (I-20 180 mi. west of DFW) Hamfest 8-5 Sat., 9-2 Sun., ARRL-VEC Test Session 10:30 a.m. Saturday, ARRL West Texas Section Convention, Pre-reg \$7.00 before 04/30/96 to KCARC P.O. Box 2722 Abilene, TX 79604-2722 (\$8.00 at the door) Tables \$6.00 each, specify if elect. required RV parking \$5.00 a night as avail. on-site, Quality Inn motor hotel across the street, ARRL, MARS, TX VHF-FM Society Forums Test Bench on-site, Foxhunt Sat eve. with prize - registration required, Full-service concession stand, Breakfast Sat 7-10 a.m. for nominal chg., Prizes- Icom IC-W31 Dual-Band HT, Kenwood TM733A Dual-Band Mobile

Contact Peg Richard-KA4UPA
915-672-8889.

*** Ham Holidays '96

07/26/96 to 07/27/96 Oklahoma City, OK
Ham Holidays '96...26-27 July(Fri, 26 July, 5-8 PM; Sat, 27 July, 8 AM - 5 PM). Oklahoma State Fair Park. Talkin 146.82. Advanced registration \$7; at the door \$9. Flea market tables \$10 (in advance), \$15 at door(if

available).

Contact Linda Miller, N1LPN
(n1lpn@aol.com).

*** Ham Expo '95

10/05/96 Belton, TX

Largest Indoor Tailgate Swapfest in the world! Sponsored by Temple Amateur Radio Club with support from Bell County REACT. Prizes - VE Testing - Dealers - & More. Bell County Expo Center, Belton, TX.

Contact Eric, N5WUFU (817) 986-1257 or Mike, WA5EQQ (817) 773-3590 or Temple ARC -Ham Expo - PO Box 4511 - Temple TX 76505.

This last one is the fall date of the Belton Swapfest that N5SQK and N5LTZ went to last weekend talked so highly of. N5TOY

PARC DUES

A Individual members \$25.00
B Associate Members \$ 9.00
News letter only
C Family membership \$25.00
Individual member and family at one address.

See Robert, KC5DQK or send to
Panhandle Amateur Radio Club
PO BOX 10221
Amarillo TX 79116

CONDUCTIVE GREASE ON ANTENNAS

I got this article from Ron N5ZLU. I am sure many of you will be interested in what it has to say.

To: vhf@w6yx.stanford.edu
Subject: Conductive Grease

I highly recommend using conductive grease on ANY antenna you assemble. It will make life MUCH simpler for disassembly and sometimes even with the original assembly. I use it for any slip joint on the antenna.

The products are available at any home improvement center in the electrical department or any electrical supply house. They are sold under the names "Penatrox", "NoALOX", "AlumaGuard" and several others.

With my experience with these products I would recommend Penatrox. It is the most stable in that the "grease" doesn't separate from the aluminum as easily as some of the other products. ANY of them would be better than nothing.

My 2 cents, Greg Engle, N6PYI

For Sale:

Yaesu FT-727R Dual Band HT with the following accessories: PA-3 Power Supply / Charger for use in the car Tone board Radio Shack Speaker mic Nicad pack with charger Spare battery pack Shell only NO CELLS All original boxes and documentation including schematics. Well used, but works GREAT!! \$225.00 gets it all

SBE - 144 Crystal controlled 2 meter rig. This rig is 10 Watts out. All solid state. With several popular frequencies already installed (145.01, 146.34/94, ...)

Also included is a Xerox copy of the manual and schematic. \$50 as soon as the repairs are complete

Call Joe Mayfield at 359-5884 or E-mail ka0yos@amsat.org

Micro poetry

Signal Reports

40

9

P C E F N I G
I K T E C N

Q R

S

Q R R

Q**R##m

N4BZ

FCC ESTABLISHES FAMILY RADIO SERVICE

From the ARRL Letter May 17
The Federal Communications Commission amended Part 95 of its rules May 10 to establish a new, unlicensed personal radio service, to be called the Family Radio Service. This service was created in response to a petition filed by the Radio Shack Division of Tandy Corporation, requesting that the Commission establish a new radio service aimed at providing small groups with an affordable and convenient means of direct, short range (up to one-half mile), two-way voice communication. FRS radios would use 14 channels in the 462 to 468-MHZ band. Transceivers would have to be FCC-certified.

The Commission suggests the FRS could be used by hunters, campers, hikers, bicyclists and other outdoor enthusiasts to keep in contact with one

another during outings. It could also be used by parents to keep in touch with children playing in the neighborhood, or families or friends to keep in contact with one another while at shopping malls, sporting events, amusement parks and similar locations.--FCC

NEXT MEETING

The next meeting of the panhandle amateur radio club will be held on June 7 at Amarillo Technical Center at 7:30 PM The Volunteer Examinations will be held at the Southwest Branch of the Amarillo Public Library at 11 AM on June 1.

MORE ON VANITY CALL SIGN PROCEDURES

From the ARRL Letter, May 17
Here are some tips about filing for a vanity call sign. Most of these resulted from members' frequently asked questions in the wake of the FCC's announcement to open filing Gate 1 on May 31: You don't need to include proof that you or your deceased close relative formerly held the call sign applied for, but the FCC can require proof. Remember that making a false statement on an FCC application is against the law and is punishable by a fine and/or imprisonment.

The FTP version of FCC Form 610V is acceptable for filing. In fact, you may even download or obtain it from the FCC via the Internet at <http://www.fcc.gov/Forms/Form610V> or <ftp://ftp.fcc.gov/pub/Forms/Form610V/>, or by fax at 202-418-0177 (request Form 006108).

Include FCC Form 159 if you're paying for your vanity call sign application by credit card or if multiple applications are being paid for with one fee, charge or check. But (contrary to instruction for FCC Form 610V) Form 159 is not required if paying by money order. Form 159 is available from the FCC via the Internet at

<http://www.fcc.gov/Forms/Form159>
or
<ftp://ftp.fcc.gov/pub/Forms/Form159/>.

Payments made by personal check receive equally expedient handling as money orders or bank checks, and no check-clearing delays are expected.

The most recent holder of a call sign has first access to that call sign. However, a person with an expired license that is within the two-year grace period is still considered to hold the license.

Just prior to announcing the opening of Gate 1 in the vanity call sign program, the FCC denied outright three of four petitions for reconsideration and granted only part of a fourth petition. The amendment the FCC adopted clarifies that a renewal application for a vanity call sign is considered to be filed on time when received "on or before" the license expiration date.

ANOTHER URL

If you haven't checked it out, you might want to check the following page. <http://user.itl.net/~equinox> It has links to about everywhere and some good propagation, dx cluster and general information.

Hello and 73 to all, de WS5R Ben

OPERATING IN

METAL BUILDINGS

Ron N4ZLU got this one off the Internet. I wonder if he was thinking of my new Morgan building?

From:
rohre[SMTP:rohre@arlut.utexas.edu]
Sent: Monday, May 06, 1996 11:15 AM

To: ham-tech; Jeffrey S. Thompson
Subject: RE: rf exposure

Jeff, as long as your transmitting is to an antenna OUTSIDE the steel building, and by either balanced, (non-radiating) feedline, or tightly shielded coax, from inside the steel shack, you should see less RF to yourself, than from a conventional structure, if the antenna is the same distance from the steel building as it was from the house. This also makes the premise that your transmitter is well shielded, and so on. Being inside a steel structure is actually a way to make very low signal level measurements on receiver sensitivity, etc. and is used as an RFI enclosure in industry. The shipping container may not be as well sealed as you might think, and inspection of the floor material might be in order before choosing it. I had a metal shack I used for awhile, but it had wooden floor that gave way, so it was not such a bargain.

Be sure to include a ventilator in your remodeling plans, and a way for folks to get to you inside, ie don't have such a good locking mechanism that a rescue would be difficult if you were closed up and shocked yourself. I am reminded of a QSO I heard about on 75M where a fellow was tinkering with his linear, and said he would be right back. Well, he stuck his hand inside the "hot" linear, and never made it back.

Such a shack does suggest that it should be well electrically grounded, and whether that is also a good RF ground depends on earth conductivity in your area. Just having ground rods does not do it, and you might need quarter wave radials, or counterpoises for RF grounding, in for example the tropics or desert. You should have a rubber floor mat for use under your operating and workbench to prevent having an easy path to get shocked.

100 watts is not such a high level exposure, unless it is going into a high gain dish antenna, and of course you would not want to be in front of that. Remember as far as HF antennas and power the power falls off quickly. See the Antenna books for more information. It is wise to be prudent around RF, and I for one do not use a rubber duck near my face if I can help it by using a speaker mic and holding the HT away and up from me; but most ham transmitting levels without amplifiers are within accepted guidelines for RF exposure. It must not be too bad for you, or there would not be so many old timers on 75 meters!

Good Luck with the shack,
Stuart K5KVH rohre@arlut.utexas.edu

Estate Sale

This equipment is from the estate of W5FMY in Dalhart. The list is abbreviated. I will have some copies of the complete list at the meeting and Barry KC5UGV has placed the complete list as an opening file on his Pyromania BBS (806) 355-6604. I am also attempting to get it on Packet.

For information contact any of the following;

Daryl Holmund 5117 Harvard St.
Amarillo 79109 354-8818
Tom Holmund 615 Peters Dalhart
79022

John Kimber N5BNU 418 Peters

Dalhart 249-4130
 John can be found on the Panhandle
 Traffic and Emergency net 3933 KHZ
 0000UTC most days.
 Amplifiers. Linear, several including
 Heathkit. model SB220 - 2 KW
 Antennas, a number including 1
 mobil, 2-meter. homebrew
 Cables, many including rotor control.
 4 strand. partial roll
 Capacitors, heavy duty. assorted.
 large collection
 Connectors. coax, assorted
 Control boxes. rotor, antenna
 Dummy load. Heathkit. Cantenna.
 Frequency Counter, DSI model 3550
 Generator, Signal. EICO. model 315
 Microphones including D104
 Microphone. Desk. Heathkit
 Monitor scope. Heathkit. model HO10
 Multi meters including Heathkit MMI
 Oscillator. audio. Jackson, model 655
 Oscillator. code practice, Knight
 oscilloscope, Heathkit, model o-98
 Phone patch Heathkit SB 600
 Power supplies many
 Pre-amp, Caringella Electronic.
 compression. model ACP 1
 Receiver. VHF. Hallicrafter, S102
 Scanner. Heathkit. Lo/Hi VHF/UHF,
 Scanner. Regency Touch K-100
 SWR/power meter several,
 Tracer, Signal, Precision Electronics.
 Model 201A
 Transceiver. citizens band
 Transceiver. 2 Meter. Azden 6000 (?)
 Transceiver, Heathkit Hw100 (2)
 Transceiver. Heathkit model Hw12A
 Transceiver Icom 735
 Transceiver. 2 Meter. Icom. IC22A
 Trans-citer. Multi-Elmac. AF 67.
 Transformers many small and large
 Transistors. heavy duty. some with
 heat sinks
 Tubes. large collection - includes
 some linear amplifier final tubes
 Tube testers
 Tuner. Antenna. Heathkit. model SA
 2040
 Voltmeters many.
 VFO, Heathkit SB 640,
 Wire, copper. partial roll
 Coils. plug-in type. (8 coils)

Exciter., Central Electronics. 10 A
 BC221A frequency
 Bogen Sound System, model E 14
 Microphone, mixer control,
 Power supply. Hammarlund, model
 Q multiplier, Heathkit model QF 1
 Receiver (??) Gandex HBI
 Receiver. Hammarlund. Bc779A
 Receiver(??) - Army surplus - 433G

Transmitter. BC696A
 Transmitter. BC458h....:
 Television test equipment

IMPORTANT NOTICE

FROM DAVID KK5KK
 Thu, 23 May 1996 21:42:17 -0500
 Subject: Important information (fwd)
 To: Lew Gordon
 The following received from Dave
 Sumner, K1ZZ, Executive Vice
 President of > > the ARRL:

 ALL DIRECTORS:
 WRC-97 preparation. Yes, 97 -- not
 99. The WRC- 97 preparatory process
 includes an FCC WRC Advisory
 Committee with Informal Working
 Groups (IWGs) that are developing
 draft US proposals for the conference.
 The ARRL Washington office is
 participating in the IWGs as required.
 The IWG dealing with so-called "little
 LEOs" --low-earth-orbit satellites
 operating below 1 GHz--is designated
 IWG 2A. At the May 7 meeting of
 IWG 2A, some of the mobile satellite
 interests tendered a document that
 purported to identify "candidate
 bands" for the introduction of mobile-
 satellite allocations, including
 (unbelievably) 144-148 MHz and
 420-450 MHz. This is a very
 preliminary document in the
 committee's work, but even so,
 sharing with a mobile-satellite service
 is so obviously unacceptable that no
 one with an understanding of what
 amateurs do in these bands could
 seriously contemplate their inclusion in
 such a list. Paul Rinaldo was present
 at the meeting and objected to the
 inclusion of these bands, telling the

assemblage that 144-148 MHz in
 particular would be considered "blood
 sport" by amateurs worldwide. Since
 that meeting we have been trying to
 impress upon those involved the folly
 of not dropping the bands from
 potential consideration. The response
 we have received has not been
 satisfactory; essentially it has been,
 "Until mobile-satellite needs are met
 somewhere, everything has to remain
 on the table." We advised the principal
 little LEO proponent as well as the
 chairman of IWG 2A that today was
 the deadline for us to receive written
 assurance that the bands would be
 taken out of consideration, or I would
 have no choice but to make the matter
 the subject of the July QST editorial.
 That was not in the nature of a threat,
 but merely a statement of fact; we are
 obligated to call out the troops in
 response to such a provocation. The
 deadline has passed. So be it. The July
 editorial will urge amateurs to take the
 FCC up on its invitation that
 "Interested parties should note that
 input to the Advisory Committee may
 be sent at any time directly to the
 Chair of the WRC-97 Advisory
 Committee [and] the Chairs of the
 Advisory Committee's Informal
 Working Groups." We will include the
 contact information for a couple of the
 industry participants in the IWG for
 good measure.

I will send you the editorial when it is
 completed, sometime before QST goes
 to press next Tuesday. We will also be
 making other release of the
 information in advance of QST hitting
 the streets. My reason for alerting you
 today is simply to make sure you
 heard about it first.

Dave Sumner, K1ZZ ARRL Executive
 Vice President

In Brief:

From the Arrl Letter May 17 1996

* According to FCC figures, the
 numbers of new hams and of hams
 who've changed their class of license
 are up compared to the last half of

PANHANDLE AMATEUR RADIO CLUB**PO BOX 10221****AMARILLO TX 79116**

03/03/97 - Individual

CARL JEANS N5YXN

6112 CALUMET

AMARILLO, TX 79106



1995. New hams for the months of January, March and April have each totaled more than 3000, and upgraders have topped 1200. In February, new hams numbered 2109, and there were 980 upgraders. During the last half of 1995--which included the Federal government furlough the last half of December--the number of new hams averaged 2137 per month, while upgrades averaged 811 per month.

* Students at Eisenhower Middle School in Texas, which has a scheduled SAREX QSO with STS-78 in June, will do their own earthbound micro-gravity experiment, involving 70-cm ATV between the school and the Brooks Air Force Base Lab. During the QSO itself, more than 100 students and parents will be in the auditorium.--Rosalie White, WA1STO

* A Mir update: The astronauts and cosmonauts aboard the Mir orbital complex report the ICOM-228 has been switched from the 25-W output setting to 5 W to conserve power.

This change should result in a signal reduction of about one S-unit. US Astronaut Shannon Lucid continues to operate under Russian Amateur Radio rules. Legally, she may use the Russian club call sign R0MIR. There are, however, some limitations for hams in the US, which does not currently have a third-party traffic agreement with Russia. This agreement does not affect Shannon, but it does affect US Amateur Radio stations. All properly licensed Amateur Radio stations in the US may talk to Shannon or anyone else on Mir, but they may not let unlicensed individuals--third parties--talk to anyone aboard Mir.

* James C. Garland, W8ZR, has been named president of Miami University, a 20,000-student institution in Oxford, Ohio. Garland, 53, is now dean of the College of Mathematical and Physical Sciences at The Ohio State University in Columbus.--Ronald Long, W8GUS

* Ham radio was there as the SETI League has kicked off its Project

Argus survey of the heavens, seeking microwave signals that might indicate intelligent extraterrestrial life. The first five radiotelescopes in the effort went on line simultaneously on Earth Day, April 21, at 1900 UTC. The telescopes are in Spain, Canada, Colorado, Hawaii and at SETI League headquarters in New Jersey. The simultaneous launch of the five stations was coordinated via ham radio. Dr H Paul Shuch, N6TX, is the SETI League's executive director.

The ARRL Letter is published by the American Radio Relay League, 225 Main St, Newington, CT 06111; tel 860-594-0200; fax 860-594-0259. Rodney J. Stafford, KB6ZV, President; David Sumner, K1ZZ, Executive Vice President.

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If you have a 386 or better and want fast free E-MAIL call 1-800-654 juno for free software and connection..