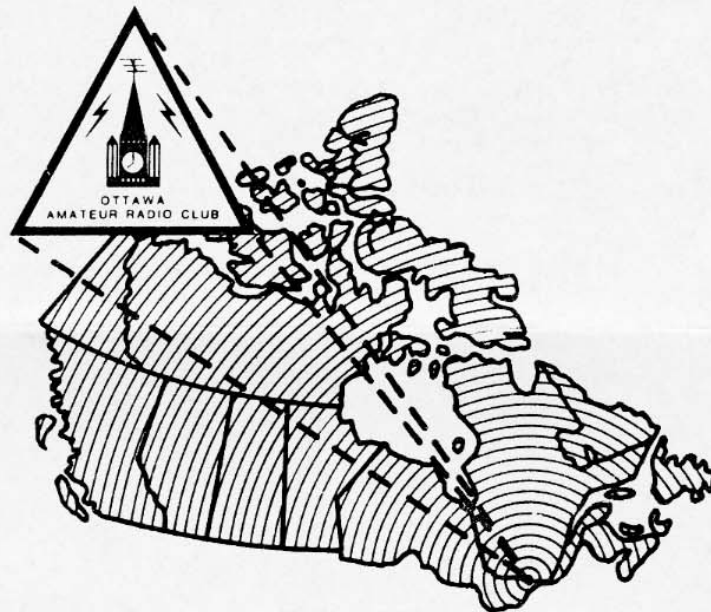


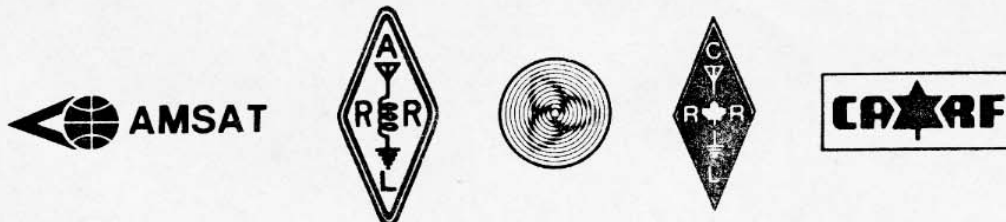
APRIL 1987

THE GROUNDWAVE



Club Call VE3RC

Repeater VE2CRA



THE GROUNDWAVE

Official Bulletin of the Ottawa Amateur Radio Club, Inc.

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THE OTTAWA AMATEUR RADIO CLUB, INC. is an association of Radio Amateurs devoted to the promotion of interest in Amateur Radio communications in the National Capital Area; and to the advancement and achievement of club members.

REGULAR MEETINGS of the OARC, Inc., are held on the first Wednesday of each month (except July and August) at the National Research Council Auditorium, 100 Sussex Drive, Ottawa, at 2000 hours. A bulletin board is available for posting notices of interest to other members about 1915 hours. Further details about each meeting is elsewhere in this publication.

THE OARC EXECUTIVE normally meets on the second Wednesday of each month in the Board Room of CFRA, 150 Isabella St., Ottawa, at 1930 hours. Contact the President to confirm the date of the next meeting.

DEADLINE FOR COPY is the second Wednesday of each month. Make yourself better known to fellow members and other amateurs, too, by giving us an article, technical or otherwise, relative to our hobby. They may get reprinted in far away places; and the family will be proud of you.

MATERIAL PUBLISHED herein does not necessarily represent the official OARC viewpoint. Items may be reprinted by Amateur Radio or other publications provided that proper credit is given to the author and to the OARC, Inc.

RADIO AMATEUR CALL BOOKS are available at many local libraries. Ask at the information desk.

SAFETY BELTS, 2-METER RIG AND AN ENGRAVING PENCIL are available for loan to club members. The 2-meter rig may be borrowed by members who are hospitalized. The engraving pencil (to mark valuables for identification in case of loss or theft) and the safety belts with pole straps are available to any member.

A \$100 refundable deposit is required for the belts. Contact the President for the 2-meter rig or the engraving pencil; and Paul, VE3ICV, at 820-6643 (West End) or Brian, VE3JKZ, at 523-1535 (East End) for the belts.

THE CAPITAL CITY NET meets every Monday at 2000 hours on the club repeater VE2CRA (146.34/.94) to pass traffic and to make announcements of interest to Amateurs in the National Capital Region.

THE SWAP NET, is a service provided and conducted by Ed Morgan, VE3GX. This feature appears on the Capital City Net, noted in the foregoing paragraph. To list items and make inquiries, call Ed Morgan at 733-1721.

POT-HOLE NET is a SSB/HF net sponsored by the Ottawa Valley Mobile Radio Club, and conducted every Sunday at 1000 hours on 3.760 MHz. All amateurs are welcome to check in. The Swap-Net is a regular feature.

POT-LID CW NET is an informal slow-speed CW net sponsored and conducted by Ed, VE3GX, and meeting every Sunday, except during July and August, at 1100 hours on 3.620 MHz, to promote interest in CW and CW procedures.

MINUTES OF THE OARC GENERAL
MEETING OF MARCH 4, 1987

The March general meeting was called to order at 8:04 p.m., local, by our president, John, VE3NVF. John greeted visitors: Jack, VE7DBK, Jean Desbiens, Mike Baker and John, VE3HAT. Visitors were invited to a free coffee and copy of the GROUNDWAVE.

Regarding last month's minutes, Peter, VE3LBW, made the following corrections: the RSO convention last year ('86) was with the Newmarket Fleamarket, not this year as stated and, regarding satellite sensitivity, it is capable of detecting a transmitter whose output power was as stated. With these corrections, the minutes were adopted on a motion by Herb, VE3HMF, and seconded by Mike, VE3PDE.

Dan, VE3EBI, stood to remind members of the upcoming CARF election of two directors - please remember to mail in your ballots.

Gord, VE3PPE, was suddenly presented with the opportunity to mention the Joe Norton Award. Basically, the rules are the same as last year (see page 9 of the March GROUNDWAVE) with the following exception. The period of eligibility has been extended to amateurs newly licensed in the preceding two (2) years, instead of one. The executive felt this might increase the number of applicants over last year. John reminded members that questions/suggestions regarding this award may be directed to him.

Craig, VE3KKU, has recently sponsored Mike Baker, a blind amateur. Mike has been licensed for the last 10 years, but because of problems of sponsorship, he has operated at most 10 hours. The CNIB is willing to support Mike through provision of an antenna and a special purchase plan of a Ten Tec Argosy.

Craig made the following motion: The executive be directed to look at including Mike as a candidate for the Joe Norton Award. Merv, VE3CV, seconded.

Mike, VE3PDE, felt that Mike Baker was a worthy candidate, but he does not fall into the award guidelines as eligible. Samson, VE3JSP, wondered if there was a procedural error: the motion should have gone to the executive first, and then the executive should bring it before members.

Craig explained a little more about Mike's situation. Mike is keen and had the sponsorship of the late Bud Punched (ex VE3UD), but that only lasted for a few months. Craig is glad to sponsor Mike now. Apparently the CNIB and Ten Tec have worked out a deal whereby a rig can be purchased for an initial cost of \$280 followed by 4 more yearly payments of \$140. Since Mike is in a different economic class than most hams, this would be an ideal way to put him on the air. The CNIB would also be willing to obtain an antenna for Mike.

Paul, VE3ICV, expressed concern about having exceptions for every handicapped ham. The Pioneer Amateur Radio Club (PARC) has sponsored and passed five blind amateurs - perhaps Craig/Mike should appeal to them? Craig noted Mike became a member tonight, and the Award money was a legacy, last given out two years ago.

On a show of hands, the motion was PASSED.

Paul gave members present the following DX tips: 3D6/VE3FXT, in Swaziland. Look for George on 160-10 M, CW, from March 13-15: then, George is moving to South Africa using ZS6NPOA (for the Nation Parks anniversary) during March 16-21: then George will be using A22/VE3FXT in Botswana, 160-80 M CW, during

March 21-31. Try ZD8DP, Ascension Island, name is Dave, at 14.127 MHz, at 20:30 UTC. Try also ZD7XY, St. Helena Island, name is Patsy, at the same time and frequency. She was calling CQ with no takers and a 58 signal, today (870304) at 4:15 p.m., local. (QSL via P.O. Box 54, St. Helena Is., Atlantic Ocean.)

John suggested the idea of a problem forum for members - people would stand up, describe a problem, and whoever could help would identify themselves, to resolve the problem at coffee break. Shy people could write problems on the black board. Fred, VE3IO, wondered if anybody had built a battery minder like the one he'd shown at last year's homebrew night. One member had put his battery charger on a light timer.

At this point, John introduced our guest speaker, Ralph, VE3BBM. Ralph took the floor to talk about sampling/storage oscilloscopes.

There are three types of analog storage scopes. The first, Bistable, controls the screen voltage to cause the phosphor to enter a bistable state. They are reasonably cheap (\$300), with a large screen area, but have a writing rate limited by the product of amplitude and frequency. The second is a variable persistence scope, that uses a fine storage mesh for waveform capture and flood guns for re-display. They are more expensive than bistable scopes, and can capture 400-500 MHz waveforms. The third type of scope is called fast-transfer. It is the most expensive analog scope (\$3,000), but the fastest, because it uses a small second mesh to capture the waveform. A flood gun technique is used to transfer the pattern from the first to the second mesh, and from the second mesh to the screen.

Coffee break was held from 8:45 to 9:10 p.m., local. John welcomed

members to come down and take home the copies of other clubs' newsletters distributed on the front table.

Digital techniques yield either real time digitizers or sampling scopes. Real time digitizers acquire a waveform in one pass, whereas sampling scopes require many signal periods.

Digital scopes have the advantages of comparing acquired and stored waveforms, displaying pre-trigger events, high accuracy, no display blooming, lowered eye-strain (automation), capture of slow-moving single shot events and lower bandwidth displays.

There are five main types of Analog to Digital converters: SA, CCD, EBSi, Flash and Scan.

Successive Approximation is the older technique, but it is limited to 1-2 MHz signals. Charge Coupled Devices use analog shift-registers to sample signals. They suffer from losses - hence errors - in charge storage and transfer. Electron Bombardment of Silicon is one of the newest and most expensive (\$8,000) techniques. It involves having an electron beam write on a tiny silicon wafer engraved with a grey-scale pattern. Flash converters use a number of parallel comparators and a resistive ladder network. The input voltage is compared against the voltages along the ladder, so hopefully the entire digital word is known at once. Flash converters are used up to 50 MHz. Scan converters are the most expensive (\$145,000) and the fastest (6 GHz). They use the concept of an electron beam scanning across a digital encoder.

Ralph entertained several questions and set up one of the more advanced scopes for members to come down and examine. John thanked Ralph for his interesting talk and hoped to get a look at that scope.

Doug, VE3CDC, mentioned the Signals Corps are having a reunion this year. Write for tickets (\$35) at Reunion 87, P.O. Box 1983, Kingston, Ontario, K7L 5J8. Apparently the food is excellent and tickets go fast!

Art, VE3ZS, read a note from the DOC, dated February 13, 1987. Some of the highlights include DOC's completion of the banks of questions, they'd prefer evaluators to suggest replacement questions rather than complaints; exams will be scheduled according to district managers; and a process review is scheduled for this fall.

Ralph noted the Ravenscroft appeal is under way; they hope to learn the tentative date this week. Donations to the JRSD fund will still be received through P.O. Box 8873, Ottawa, Ontario, K1G 3J2.

Craig noted a new crime prevention council is being set up; it hopes to take a look at high-tech methods. For further information, please contact Craig.

Merv informed members of a mail canvass of CRRA members about voice-linking, apparently 3/4s responded positively, so the executive is going to go ahead. The RSO convention this year will be held in conjunction with the HEX-9 Group, at the Georgian College in Barrie, September 19th.

Brett, VE3PAK, wondered if a field day committee has been set up yet. John responded no, but encouraged members, if they liked last year's field day, to let Mark, VE3OWL, and Dave, VE3JTZ, know.

The meeting was adjourned at 10:05 p.m., local, on a motion by Merv, seconded by Craig. All voted affirmatively with their feet - therefore CARRIED.

Homebrew Night - next meeting - April 1st. Bring the best gadget and get a prize.

CANADA-JAPAN RECIPROCITY

On September 17, Canada signed a reciprocal licensing/operating agreement with Japan, effective November 16, 1986.

This is the third country that the Japanese government has entered into such an agreement with, the other two being the United States and the Federal Republic of Germany.

Full information for US or Canadian amateurs to operate in Japan is available from the CRRL, ARRL, the Department of Communications in Ottawa, or JARL Secretariat, 1-14-2 Sugamo, Toshima, Tokyo 170, Japan.

Amateurs operating in Japan under a reciprocal licensing/operating agreement sign 7J calls, such as 7J1AAA in Tokyo, 7J1ACH on Minami Torishima, 7J3AAA in Osaka, and 7J8AAA in Sappora.

de CRRL and DOC

INFO EXCHANGE

If you have a radio-related problem, please give us a written description and we will print it in this column. Hopefully someone who knows the solution will tell us and we will print that too.

Problem (1) - Can anyone describe an antenna for 80 or 40 metres that will fit on an apartment balcony and not need a tuning unit?

Emergency Measures
Amateur Radio Group
Regional Municipality
of
Ottawa-Carleton

86-12-14

Contrary to popular belief, organized emergency communications by radio amateurs in the Regional Municipality of Ottawa-Carleton (RMOC) is not dead. When the Emergency Measures Organization was disbanded as a separate organization in 1985, responsibility for emergency planning changed hands a few times and finally ended up with the Transportation Department of the RMOC. Jim Becking, P. Eng., Director of Operations for the Transportation Department, is the Emergency Measures Coordinator. Larry Abbott of his office handles emergency planning on a day to day basis.

As those of you who are on the EMARG mailing list will know, I took over coordination of EMARG at Joe MacPherson's (VE3CAT) request at the beginning of 1986. In June, the Region appointed me Emergency Planning Officer - Communications. In this position, I have the responsibility of organizing all auxiliary emergency communications, coordinate frequency usage during an emergency and advise primary services on emergency communications.

Although we haven't been sending out any newsletters, there has been a lot of activity in emergency planning during 1986. The Region has set up HF and VHF stations at the Emergency Operations Center at 222 Queen Street. These stations operate under the call sign VE3OCE (for "Ottawa Carleton Emergency"). It has also purchased new VHF gear for the Regional Mobile Emergency Command Vehicle. This vehicle was ordered late in the year. Communications equipment for the vehicle for use by primary services (police, fire,

ambulance/hospital) was arranged with our advice. An emergency plan has been written by the Region and submitted to us for review. An emergency communications plan was written by us and will be published as soon as the callout procedure is finalized. Two voice papers have been issued to EMARG to allow quick activation of the callout tree.

In addition to planning, the group has participated in various emergency exercises and training efforts. Chris, VE3PAE, coordinated two emergency exercises involving evacuation of the Champlain Nursing Home and St. Patrick's Nursing Home for which we received letters of appreciation for our help. Various members have participated in providing communications for emergency training courses at the Emergency Preparedness Training College run by Emergency Planning Canada in Arnprior. These efforts were coordinated by Herve Tremblay who acts as a consultant to the College. Three more courses are coming up in January, February and March and volunteers are needed. A Regional emergency exercise is being planned for the spring and participants will be needed for that as well.

The Region and the province have agreed to fund the connection to the provincial voice linking system being coordinated by Harrie, VE3HYS. Once installed, this system will allow Ottawa and Valley amateurs to link on VHF to many other areas of the province. It is this system which provided communications during the Barrie tornado.

Arrangements have been made for the Region to provide ID cards to members. These cards have been recognized by all regional primary services. Members will be advised how to obtain the cards once the membership list is updated.

There are, I am sure, many people on the membership list who have lost interest in participating. There are also probably many new amateurs who are anxious to participate. Having people on our list who will not respond only lengthens response time in an emergency because of the wasted phone calls. If you are on our list and don't want to be, or are not on the list and do want to be, please let me know. Once the list is finalized, the Emergency Plan will be published and ID cards issued.

In summary, EMARG is alive and well. Events are moving quickly. I would like to thank VE3KMV, VE3PAE, VE3KKU, VE3PAP and the many others whose active participation had aided our progress. Please help us to further our progress by participating in the exercises being planned.

David Goldsmith, VE3FM
Emergency Planning
Officer - Communications
RMOG

NOTES FROM THE EXECUTIVE

1. The Pioneer Amateur Radio Club has donated two MOCOM-35 450 MHz transceivers to the OARC for use in our voice-linking project - special thanks to PARC for their contribution.

Harrie Jones, VE3HYS, is looking for people to form work crews. Details will be available at the April 1st meeting.

2. Volunteers are needed for this year's Field Day. Several of last year's organizers have volunteered again but all members interested should identify themselves at the next meeting - more details then.

LEGAL NOTE

Marcogram (the Montreal ARC Bulletin) had the following in its February 1987 issue: "Cote-St-Luc City Council has now accepted (sic) a By-Law permitting Amateur Radio antenna towers up to 80 feet with 5-foot setback to perimeter at the beam. Dipoles can be erected with the ends run up to a tree or other natural height, or to an existing telephone/hydro pole, but no extra poles are permitted".

Ed. Note:

1. Local (OARC) folklore has it that only the Feds can regulate radio antennas.
2. If we lived in Cote-St-Luc (or anywhere else) we would check with the telephone/hydro company before using their poles, and not take City Council's word that it is okay. (Also, we might be cautious about hydro poles even with permission - they often have nasty wires on them that can easily produce cooked ham.)

CARF MEMBERS

Dan Holmes, VE3EBI, our past president, is running for Director. If you haven't voted already, please do so now and give Dan your support which he really deserves. He did a fine job for the OARC and will do the same for CARF.

JOE NORTON AWARD

Don't forget the deadline for this year's Joe Norton Award is April 1, 1987.

THE RAVENSCROFT APPEAL

(Status as of 4 March 1987)

Borden & Elliot, solicitors for Jack Ravenscroft, have deposited the necessary Factum and Appeal documents and received a certificate of Perfection which indicates Jack's defence material has been officially deposited with the Supreme Court of Ontario.

It is now a matter of waiting for a copy of the Factum from the Plaintiffs which will represent their cross appeal. A tentative date for the Appeal to be heard in Osgoode Hall, Toronto, should be known by mid-March.

Three primary issues and arguments are detailed in the Factum and extracts supporting these issues and arguments have been taken from the trial transcripts (received, finally, after ten months). The Appeal raises the following issues:

- 1) The regulation of the transmission and reception of radio communication is within the exclusive jurisdiction of the Federal Parliament and cannot be affected by Provincial law;
- 2) The conduct of the defendants does not amount to an actionable nuisance;
- 3) In the alternative, even if the defendants' conduct amounts to an actionable nuisance, the defence of statutory authority applies.

In expanding on item 1), it is stated, "The Parliament of Canada has exclusive jurisdiction to regulate and control radio communication, including the transmission and reception of signs, signals, pictures, and sounds of all kinds by means of Hertzian waves, and including the right to determine the character, use, and

location of the apparatus employed. In the Radio Reference, the Privy Council made clear that both the transmission and reception of radio communications was exclusively within Federal jurisdiction:

Parliament has exclusive jurisdiction, "to enact legislation in relation to radio communication and broadcasting by virtue of the power granted to it by Section 91 of the BNA Act to enact legislation for the peace, order and good government of Canada and Section 92(10) which excepts radio communication and broadcasting from the classes of subjects that fall within provincial jurisdiction."

Additional reference cases and texts support this argument. Four cases cited support the statement, "Further, provincial law cannot affect a federally licensed undertaking to the extent that it is sterilized in its functions and activities or its status and essential capacities are impaired in a substantial degree."

In support of item 2) above, there are numerous cases cited and legal references quoted which have little meaning when quoted out of context. One statement worthy of note is the following, "The law of nuisance makes a distinction between situations in which there is actual physical injury to the property of the plaintiff and situations in which there is no physical injury but rather an interference with the beneficial use and enjoyment of the property. In the absence of physical injury, the plaintiff bears a heavier burden of proof and must show that the interference is serious and substantial and of such a nature that it is clear according to the accepted standards of the day that it should be an actionable wrong."

In determining whether or not the RF interference amounts to a nuisance,

the factors used for evaluation are the same as those argued previously and are still relevant:

- (i) The type and severity of the harm
- (ii) The abnormal sensitivity of the plaintiffs
- (iii) The character of the locale
- (iv) The utility of the conduct.

"The defence of statutory authority is well established in the case law. Citations are included from Allen v. Gulf Oil Refining Limited, [1981] A.C. 1001 (H.L.) at p.1011 and from Royal Anne Hotel Co. v. Ashcroft [1979] 2 W.R.R. 462(B.C.C.A.) at p.465.

In the use of the above case law as an issue or reference, the Apellant's (VE3SR) solicitor will argue the following to prove the defence of statutory authority:

- "1) Has Parliament by express direction or necessary implication authorized the undertaking?
- "2) Is the damage complained of an inevitable result of the statutory authorization?
- "3) Was there any negligence in the exercise of the statutory authorization."

Arguments then appear for each of these above issues.

"In conclusion, it is submitted that to the extent that an actionable nuisance is found, Mr. Ravenscroft is entitled to invoke the defence of statutory authorization."

Part IV of the Appeal Factum describes the "ORDER REQUESTED" - "It is submitted that this appeal should be allowed with cost both in this Court and below, and the action of the plaintiffs dismissed."

All of which is respectfully submitted.

SIGNED

J.D.Hylton, Q.C.
Christopher D. Bredt
of counsel for the appellants

NOTE

The above extracts have been taken from the Factum, Court file No. 274/86, filed with the Supreme Court of Ontario, Court of Appeal. The entire document comprises 24 pages and includes all necessary legal references. To this document is attached the Appeal Book which includes 64 pages of extracts from the trial transcript along with copies of relevant Court exhibits. Copies of the Factum book are available to any parties which may have interest in this Appeal. These documents are now in the Public domain. Contact: Borden & Elliot, 250 University Avenue, Toronto, Ontario M5H 3E9, Attn: Mr. Christopher D. Bredt.

POINT OF VIEW

Three IBM (read TI or whatever) staffers out for a drive - a salesman, a hardware engineer, and a software engineer - suffer a flat tire.

The IBM salesman surveys the disabled vehicle and says, "We need a new car."

Counters the hardware engineer, "Let's just swap tires until we figure which one is flat."

"Why don't we just wait a while?" says the software engineer. "Maybe the problem will fix itself."

de The WIARC Bulletin
West Island Amateur Radio
Club Inc.
Pointe Claire - Dorval, Quebec

REQUIRED READING REMINDER

In case you missed them, two articles in The Canadian Amateur, October 1986, should be in your reading schedule.

A 'RIGHT TO USE RADIO' LAW, by Bill Wilson, VE3NR, discusses susceptibility of consumer electronic equipment, offers a suggested version of a radio user's rights act, and ends with an appeal to users to make their views known to the Minister of Communications of the Federal Government.

In a complementary article in the same issue, Ralph Cameron, VE3BBM, provides some statistics on the problems and complaints raised by lack of immunity in other than radio communication equipment. The author points out that interference problems between two users of communication equipment, (TV, radio, hi-fi, etc.) can be refereed by DOC. DOC, however, has no mandate to become involved in problems which do not involve radio communicating devices.

THE MEMBER WHO NEVER CAME BACK

It amuses me to think that your organization spends so much time looking for new members when I was there all the time.

Do you remember me? I am the one you asked to join. I paid my dues and when I was asked to as a loyal and faithful member.

I'm the one who came to every meeting but nobody paid any attention to me. I tried several times to be friendly but everyone seemed to have their friends to talk to and sit with. I sat down among to me unfamiliar faces several times but they didn't pay much attention to me.

I hoped somebody would ask me to join one of the committees or to participate or contribute but no one did.

Finally, because of illness, I missed a meeting. The next month no one asked me where I'd been. I guess it didn't matter very much whether I was there or not. On the next meeting date I decided to stay home and watch a good television program. When I attended the next meeting no one asked me where I was the month before.

You might say that I'm a good person, a good worker and I love my community. You know who else I am? I'm the member who never came back.

de FEEDLINE Niagara
Peninsula Amateur Radio Club

COMMENT: The little story recounted above has been around for a long time in various versions but it serves to remind us that in any larger club there is bound to be reticent newcomers who feel that they are intruding upon staked out territory. It takes two to tango and any newcomer can get into the dance quickly by asking, "Is there anything I could do to help?" One suggestion that might help ham clubs is a colour code scheme of lapel badges. Name and call sign are usually pinned on somewhere but a distinctive colour for visitors, another for first year members, and a fiery red one for club officials might do a lot towards improving eyeball communication. (Ed.)

AMATEUR SPACE TELESCOPE PLANNED

The Independent Space Research Group (ISRG) recently moved its headquarters to Rochester, NY. The ISRG is attempting to construct a launch of a small (18" diameter) orbiting telescope for use by amateur astronomers and educational institutions of all levels. The satellite, called the Amateur Space Telescope or AST, is being designed to transmit pictures in digital form over amateur radio bands so that anyone with modest amateur radio gear can receive pictures.

A few months ago, AMSAT accepted a proposal for AMSAT participation in the AST project. AMSAT has agreed to build communication devices for the satellite, help organize a control station network, and allow the use of phase III satellites as relays between the AST and the ground. Dr. John Champa of AMSAT will be organizing teams for this purpose. Two projects have been proposed for the coming year.

- A test, in cooperation with AMSAT, of the Phase III satellite's ability to act as a downlink relay. A test setup would mimic the proposed communication system planned for the AST, in terms of ERP, data rate, etc., and use it to transmit digital pictures from a CID camera up to the satellite and back to earth,

- Design and construction of a prototype interface capable of taking recorded digital pictures from the satellite and creating a picture on a TV screen or homemade photographic printer.

Anyone interested should contact Jesse Eichenlaub at 1170 Genesee Street, Bldg. 5, Apt 3, Rochester, NY, 14611 or phone (716) 464-0125.

A SAD POSTSCRIPT TO FIELD DAY

We regret the necessity for reporting accidents that occur during ham activities but we all need reminders of the need for constant vigilance and awareness of the hazards of the hobby. From the RaRa Rag, published by the Rochester Amateur Radio Association, Inc., and the ARRL Letter comes this sobering account.

". . . North Dakota Section Manager Mike Mankey, WBOTEE, was killed when an antenna he was helping to install at a Field Day site came into contact with power lines. The familiar site had trees that looked ideal as antenna supports, but it was discovered - too late - that there were power lines hidden behind them. Mike was 36 years old. Our deepest sympathies go to his family.

"While it cannot in any way reduce the loss to Mike's family, and to the Amateur Radio community, we hope this note will remind all of us to put safety at the top of the check list for antenna projects, at home or in the field."

de ARRL LETTER via RaRa Rag

Wallet: A device that permits you to lose all your valuables at the same time.

de Bulletin of the Peel
Amateur Radio Club Inc.



| | | | |
|--|--------------------------|--|----------------------|
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