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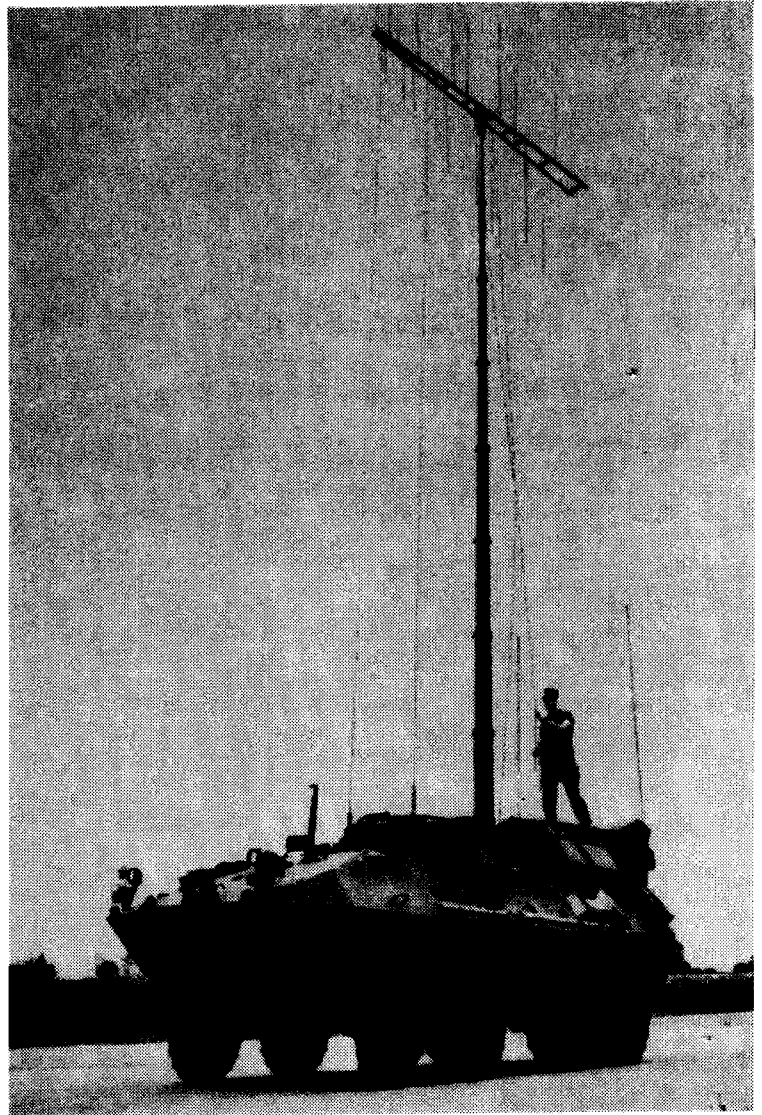
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THE ULTIMATE CAVE-RESCUE VEHICLE?

Photo from an ad in DEFENSE ELECTRONICS magazine, October 1987, for GTE Government Systems Corp's "Magic Mast" mobile antenna tower. The vehicle, reminiscent of a Soviet BTR amphibious armored personnel carrier, is unidentified.

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Foreign subscriptions can be paid in U.S. "paper" dollars in the mail; an international money-order may cost as much as the subscription. Many members have sent cash without problems. (No foreign currency, please.)

Editorship rotates among the officers. Volunteers are encouraged to guest-edit or produce an issue. A technical session, followed by election of officers, is an annual event held during the NSS Convention.

Complimentary copies of **SPELEONICS** are mailed to NSS offices and sections, the U.S. Bureau of Mines, U.S. Geological Survey, and the Longwave Club of America.

NEWS AND ANNOUNCEMENTS

CAVE RADIO FEATURED IN CANADIAN VIDEO

Ian Drummond reports that video-tape recorded during the April, 1988 expedition to **Castleguard Cave** is now being edited. Ian hopes to show the finished product at the NSS Convention in South Dakota in June. The video shows details of the cave-radiolocation process, using Ian's 2-way SSB voice equipment. The camera was taken underground in this famous cave system which extends beneath a glacier in the Canadian Rockies, and there are surface views from a helicopter. The video will eventually be available through the NSS Library, and the Communications and Electronics Section intends to make it available to our members who are not NSS-affiliated. More details later!

--

CAVERS' COMPUTER-MAILING LIST GETS NEW MANAGER

Ron Lussier, founder of the 'caver net' (see **SPELEONICS** 9, p. 3), regrets that he is no longer able to distribute messages, due to employment change. **John Sutter** has agreed to take over administration of the Cavers' mailing list.

New mailing-list addresses:

cavers@m2c.org
harvard!m2c!cavers : for the list

cavers-request@m2c.org
harvard!m2c!cavers-request : for admin requests

cavers-archive@m2c.org
harvard!m2c!cavers-archive : for archive requests

The new addresses allow for both **Usenet** and **ARPA** access, and hopefully will increase the membership.

From: **John D. Sutter** <jds at ODIN.M2C.ORG>

I will be maintaining an archive of the Cavers mailing list here at M2C. For the time being I

will handle the archives manually but will be going to an automated server as soon as possible.

The address of the list is:

Internet: cavers-archive@m2c.org
Usenet: harvard!m2c!cavers-archive

Requests should be stated in simple terms as follows:

HELP will return help file to user.
INDEX will return index of articles in archive.
ARTICLE ### will return article number ### to user.

The archive will also be available via anonymous ftp in pub/cavers-archive on m2c.m2c.org [128.188.1.2].

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NSS 29355

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PRODUCTION IRREGULARITIES

We try to publish quarterly but sometimes miss a season (a hazard of volunteer-produced newsletters). For this reason, **SPELEONICS** issues are numbered consecutively, and subscriptions are for a certain number of issues rather than per year. This and future issues will be dated only with the month and year of publication; some confusion has resulted in complaints that people didn't receive the (nonexistent) Fall 1987 issue.

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NSS BULLETIN PUBLISHES CAVE RADIO PLANS

The NSS Bulletin, v.49 no.1, June 1987 (received April 1988-- other publications have schedule problems too!) published "A New Radio Location Device" by Anne and Andrew Bell of Wales, United Kingdom. The article (previously published in UK) fully describes the "Ogof Beacon," a 38.4-kHz CW cave-radiolocation device of design different from most U.S. cave radios, and having a very successful history of operation. The name comes from Wales' famous Ogof Ffynnon Ddu cave system.

The easily-built transmitter features CMOS circuitry, crystal control, power-FET output stage, antenna coupling which accepts coils of different sizes, and a keyer circuit which is programmable for Morse-code characters (useful for identifying multiple transmitters used on a single cave trip). The superheterodyne receiver has an i-f filter made from inexpensive 4.469896-MHz crystals (the color-burst frequency of UK television). The design is adaptable to 3.597545-MHz US color-tv crystals.

A license would be required to operate the Ogof Beacon in the U.S. if its output exceeds the specifications of FCC Rules and Regulations Part 15 which apply to license-free operation between 10 and 490 kHz (reprinted from SPELEONICS 5):

15.111: Field strength (microvolts per meter measured at 300 meters) not to exceed 2400 / f(kHz). [62.5 uV/m at 38.4 kHz].

An experimental license is easy to get; Ray Cole (NSS 12460) has studied the procedure and can provide advice.

NSS Bulletin is the scientific journal of the National Speleological Society. Copies of the 9-page article are available from Frank Reid (address in masthead) for SASE with 2-ounce postage.

MEMBERS MEET AT DAYTON HAMVENTION

Twelve people attended our group's first informal meeting at the world's largest hamfest, in Dayton, Ohio, April 30 (see announcement in SPELEONICS 9). Next year we intend to find a meeting place with chairs, and schedule the meeting in the afternoon so that people will have time to scout the vast flea market and record locations of items especially interesting to cavers and low-frequency experimenters. (This year, one caver bought a plane-table alidade with telescope for \$100!)

Members and friends attending:

Dick Blenz	Lance Lide
Don Conover	David Martin WA4TRW
Rick Davis K8DOC	Joe Morgan
Angelo George	Frank Reid W9MKV
Diana George N9DEJ	John Sowers WB2YJN
Randy Jackson	Gary Taylor N8HRE

News and notes were shared. Interest was expressed in organizing a Midwest weekend meeting for enthusiasts in cave radio, LF, VLF, metal detectors, etc., similar to the annual events in California hosted by Jim Ericson, publisher of 1750 Meters: Western Update. The ideal spot would be an isolated area (away from power lines and electric fences) with caves, enough room for antennas, a picnic shelter and camping facilities, and motels within reach.

MORE RADIO MODIFICATIONS

Danny Britton KB4TEP has sent instructions for out-of-band modification of the Kenwood TH-215A 2-meter handheld transceiver, expanding our file of similar information (see SPELEONICS 9). Copies are available from Frank Reid for SASE.

REPRODUCTION OF SPELEONICS ARTICLES

Caving publications are traditionally not copyrighted (SPELEONICS authors may copyright their work if so desired). Our purpose is to spread information; we are honored when other newsletters reprint articles. Unless otherwise noted, material originally published in SPELEONICS may be reprinted without prior permission, provided that the author is credited and SPELEONICS is identified as the source. The editors would appreciate receiving a copy of the reprinting publication.

SUBSCRIPTION COST HELD CONSTANT

The April, 1988 increase in US postal rates has not destroyed our budget, since we currently enjoy economical printing arrangements. We presently plan NO increase in subscription costs, though it will probably become necessary someday. Members may, of course, extend subscriptions for any number of future issues at current rates.

SECTION LOGO REVISED

Our "Better Caving Through Electrical Stuff" emblem ('borrowed' from an ad in a very old electronics trade-journal) has been modified. Diana George added artwork to make it more "cavey" and further symbolize connection.



