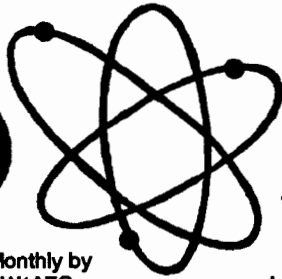


ZERO BEAT



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South Dartmouth, MA 02748

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Larry Houbre, AA1FS
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Meeting Highlights

Here are the highlights from the August 4th SEMARA business meeting:

The meeting came to order with the pledge of allegiance, followed by the roll call. There was a moment of silence for a silent key. The secretary's and treasurer's reports were read and accepted. The balance was \$1375.29.

Committee reports included Charles, KD1DA, reporting on the Ham Fest. World Radio sent a donation for the Ham Fest give-away. Bill, WA1FYF, noted that the grass had been cut.

Under old business was more talk about donations for door prizes. It was noted that the Fairhaven Road Race donated \$100 to the club. There was discussion about sending out postcards to hams in the area to notify them of the ham fest. Expenditure for \$190 of postage was approved. After more discussion concerning the ham fest, the meeting adjourned.

DON'T MISS THIS ONE!! SEMARA and WARC PROUDLY PRESENT HAMFEST '94'.

When: September 11, 1994 9am -
5pm (rain date Sept. 18)
Admission: \$2 (free to all members
and their family)
Table Space: \$8 (free to all mem-
bers and their family).

We still need donations for the "club table". We are also looking for donations for "door" and "raffle" prizes. Some members have made donations for the club to purchase food... If you would like to donate anything, reserve a table or chat, please call Pete (KA1WOJ) at 993-6262. As mentioned before, the WARC will be our invited guests this year, so spread the word. We have mailed post-cards to 1100 area "Hams" announcing the "94 Fest". So come on down, bring the family, have some fun, some food, check-out the gear for sale and see your fellow "Hams".

News Briefs

From The ARRL

● Senator Barry Goldwater, K7UGA, appeared on the "Ham Radio & More" AM radio show on June 26, and was "sensational, as usual," according to the show's producer, Len Winkler, KB7LPW. Senator Goldwater answered callers' questions ranging from MARS to SDI military hardware. Much praise was given to the Senator for his time given to the country.

Goldwater said that since code is outdated and not so widely used in the military today, he believes the time has come to do away with the code requirements, even though he thoroughly enjoys code and can be found on CW many times each week. He also believes that "our" ability to handle national emergencies is justification in itself for our existence, and he is very opposed to charging for amateur licenses.

● The FCC has proposed to reorganize several of its bureaus and offices. A new Wireless Telecommunications Bureau is to have as a co-deputy chief Ralph Haller, who currently is chief of the Private Radio Bureau and is well known to amateurs. Richard M. Smith, now head of the Field Operations Bureau, is to be chief of a new Office of Engineering and Technology. Beverly Baker, who is now deputy chief of the Private Radio Bureau, is to become chief of the Field Operations Bureau.

FCC Chairman Reed Hundt said, in announcing the proposed reorganization, that wireless and international were the areas calling for the "biggest changes." He said that personal communications systems and other emerging technologies made a Wireless Bureau necessary. An International Bureau "will better meet the challenges ahead as the FCC continues its role in international telecommunications, working with the Department of State and National Telecommunications and Information Administration (NTIA) in the promotion of the Global Information Infrastructure."

● The Federal Communications Commission's "Auction Team" has received the Hammer Award "for reinventing government initiatives."

The award recognizes that the auctions (which were for narrowband Personal Communication Service spectrum and interactive video allocations) served consumers by licensing new services faster, served the public by selling rights to the spectrum rather than giving it away, and served industry by getting licenses to those "who value them most highly."

to anyone interested in education. The organization's focus is school educators at all levels. For a free informational pamphlet, write The National Association of Space Simulating Educators, attn. Robert E. Morgan, University School, 20701 Brantley Rd., Shaker Heights, Ohio 44122.

Disaster Communications

The Disaster Emergency Response Association (DERA) is putting together a network of licensed amateur operators, commercial licensees, military stations, satellite hub terminals and gateway nodes, to respond to catastrophic disaster anywhere in the world.

An undertaking of this magnitude requires a cross-section of every skill: Leadership, operating ability, engineering, Old Timer experience, Newcomer energy, bookkeeping, small engine repair, Channel Watch, computer operation and envelope stuffing.

No matter what your ability--If you are sincerely interested in using Amateur Radio for disaster communications, DERA has a job for you... and we need your active support.

DERA is ARRL-affiliated, and is not in competition with RACES, the Red Cross, ARES, FEMA or the National Guard! Our mission is to link across functional lines and make everyone's system work better. Amateur operations are critical to this success.

DERA members have responded to numerous disasters since 1962. They were there at Hurricane Camille, Mount Saint Helens, the Oakland Earthquake,

Packet Directory

144.990 N1KBT	145.090 KC1CE
144.990 NS1N	145.090 KD1NU
145.010 Fara Digi	145.570 N1QWW
145.010 N1CSI	145.530 KQ1K
145.050 WA1ZUF	145.710 KA1THM
145.070 WQ1O	145.710 KC1KM
145.090 AA1FS	145.710 N1LDY
145.090 K1UGM	145.730 KC1UA

Hurricane Andrew, and others, as well as the U.N. mission to Somalia.

Please contact DERA for information and details about the current programs. Write to:

DERA - Amateur Radio
P.O. Box 37324
Milwaukee, WI 53237

Maxim Memorial Award

The Genesis Amateur Radio Society is extremely pleased to announce that Jonathan M. LeBretton (N1MJM) has been notified, by Rick Palm of the ARRL, that he is the 1994 recipient of the Hiram Percy Maxim Memorial Award.

Jon is an energetic young amateur who has worked hard to promote amateur radio by emergency service and traffic handling. He is also an avid DX'er and rag chewer while maintaining a high scholastic average. Jon is also a member of the National Honor Society.

This awards commemorates the founder of the ARRL, and is given each year to a Ham under of 21 yrs whose accomplishments and contributions are of the most exemplary nature in HAM activities including technical, operating, recruitment and public relations.

Mystery Circuit

Last month's mystery circuit was correctly identified by our resident high priest of electronics, Bill, KB1IR. To quote: "Circuit appears to be an equal-component-value design of a sallen-key 2nd order filter with damping optimised for flattest gain. The IC is most likely an OP1 or LM741."

For Sale

Alinco DJ-180 with 200 memory chip. \$220. Call Larry, AA1FS, 991-6055.

'94 SEMARA OFFICERS

President

Pete Carreiro, KA1WOJ, 993-6262

Vice-President

Robert Peckham, KA1YDG, 995-9137

Secretary

Karen Peckham, N1LIE, 995-9137

Treasurer

Pat Carreiro, KA1YUH, 993-6262

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Bill Field, WA1FYF

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Edward Blouin, KA1AW

Andrew Reuter, WA1FNM

Buildings & Grounds Committee

Bill Field, WA1FYF, Chairman

Technical Committee

William M. Miller, Jr., K1IBR, Chairman

For Sale

Alinco DJ-160, with battery, pouch, mag mount and Concept RFC232. Call John, N11QU at 508-992-4440.

Wanted

PSU-3A Power Supply for "Swan" 700HF. Call after 4:40 pm, 508- 993-7947, David, N1MVZ.

Repeater Directory

145.150 -	WA1DGW, Fall River
145.490 -	KA1WBF, Fairhaven
146.700 -	WA1RBT, Cranston
146.655 -	WA1GPO, Falmouth
146.685 -	N1OEG, Plymouth
147.000 +	W1AEC, South Dartmouth
147.045 +	WA1AIC, Yarmouth
147.135 +	ND1N, Taunton
147.180 +	WB1FLD, Bridgewater
147.315 +	N1BBT, Wareham
441.400 +	WG1U, Assonet
442.200 +	NY1D, Fall River
443.450 +	K1MYL, Westport
443.600 +	NS1N, Norwell
443.800 +	N1RFH, New Bedford
444.250 +	WA1GPO, Falmouth
444.350 +	W1ACT, Fall River
444.550 +	WA1ZUF, Bridgewater
446.325 -	KA1CLX, Plymouth
446.625 -	NC1K, Plymouth
447.075 -	N1DZD, Kingston
448.675 -	N1FPH, West Greenwich

CALENDAR

August

- 21: MIT Flea Market
- 27: Ham Fest, Gardner, MA
- 28: Ham Fest, Fall River, MA

September

- 1: 7:30p, SEMARA Business Meeting
- 2: VE Exams, South Dartmouth
- 11: Ham Fest, South Dartmouth
- 18: MIT Flea Market
- 25: Ham Fest, Framingham

October

- 1-2: ARRL NE Div. Convention, MA
- 6: 7:30p, SEMARA Business Meeting
- 7, 8: Hoss Traders, Rochester
- 16: MIT Flea Market
- 29: National Exam Day

VE EXAMS

August

- 20: Melrose, MA Scott, 617-322-7654
- 21: Shirley, MA Tom, 508-425-6672
- 24: Cambridge, MA Nick, 617-253-3776
- 26: Holyoke, MA Jim, 413-245-3228

September

- 3: S. Dartmouth, MA Ray, 508-995-0334
- 4: Shirley, MA Tom, 508-425-6672
- 5: Cambridge, MA Bob, 617-593-1955
- 7: Acton, MA Dave, 508-263-3712
- 8: Providence, RI Judy, 401-231-9156
- 10: Marlborough, MA Bill, 617-891-9079
- 10: Braintree, MA William, 617-843-4400
- 10: Chicopee, MA Jim, 413-245-3228
- 10: Falmouth, MA Geoffrey, 508-548-0969
- 11: Gloucester, MA Rick, 508-283-2278
- 14: Billerica, MA Bruce, 508-851-2886
- 17: Melrose, MA Scott, 617-322-7654
- 18: Shirley, MA Tom, 508-425-6672
- 21: Cambridge, MA Nick, 617-253-3776
- 21: Lunenburg, MA Tom, 508-534-9377
- 23: Holyoke, MA Jim, 413-245-3228
- 24: Slatersville, RI Bob, 401-333-2129
- 25: Framingham, MA Dick, 508-877-0563

October

- 1: Buxboro, MA Dexter, 508-774-1765
- 2: Buxboro, MA Dexter, 508-774-1765
- 2: Shirley, MA Tom, 508-425-6672
- 3: Cambridge, MA Bob, 617-593-1955
- 5: Acton, MA Dave, 508-263-3712
- 8: Marlborough, MA Bill, 617-891-9079
- 8: Braintree, MA William, 617-843-4400
- 8: Brewster, MA Henry, 508-255-2818
- 8: Chicopee, MA Jim, 413-245-3228



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* Some sessions require preregistration and do not allow walk-ins. Please check with the contact listed for each session to verify the exam date, time, and location.

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The FCC Auction Team includes employees who worked on allocation and auction rule making as well as the team that organized and carried out the actual auctions in late July.

After 47 rounds of bidding, the PCS auction earned more than 600 million dollars for the ten nationwide licenses being auctioned. An interactive video spectrum auction earned an additional 214 million dollars for 574 licenses that will be used for new broadcast services.

Youthnet News

Alexis Leynes, N9KYJ

Nine year old Casey Halley, AB5RG, was able to obtain his DXCC award this past month, after a few years of work. He is currently is the youngest ham operator to obtain DXCC. He was able to make many contacts through pile-ups because of his young voice out on the air (and he sounds like a YL), also through persistence and dedication with a goal in mind. One of his most interesting contacts was made on a school day morning when he heard Albania on 15 meters.

He has already attained his three goals, which was an Extra class license, Worked all States (WAS), and DXCC. Now he is going for a Worked all Zones award.

If you want to contribute to Youthnet News, please send it to one of the following addresses:

Packet: N9KYJ@W9ZMR.IL.USA
E-mail: AlexN9KYJ@aol.com
Mail: Alexis Leynes, N9KYJ, 7703
Bolton Way, Hanover Park, IL
60103-2733

Space Briefs

● The Goddard Amateur Radio Club (GARC) invites interested people to tune in to STS-65 shuttle ground communications transmissions. As a public service to the Amateur radio community, the

GARC retransmits the space shuttle air-to-ground communications. Listen to these transmissions on the following HF (single sideband) frequencies:

3.860 MHz (LSB)
7.186 MHz (LSB)
14.295 MHz (USB)
21.395 MHz (USB)
28.650 MHz (USB)

● The August 1994 issue of QEX magazine has an article describing the "KD2BD Pacsat Modem", a high-performance 1200 bps BPSK modem designed for communication with "Pacsat" satellites. The Modem is the result of several years of development and testing. It was designed around commonly available components for easy duplication and provides outstanding performance.

Among the modem's strengths is its ability to successfully decode BPSK signals well into the noise level using correlation decoding techniques. The modem can be used for communication with PACSAT, WEBERSAT, LUSAT, FO-20, and ITAMSAT as well as many future digital store-and-forward amateur communication satellites. It can also be used for weak signal terrestrial packet radio communications.

Schematics, photographs, and a discussion of the modem design and its operation are included in the article.

● Amateur astronomer Syl Pauley, K1ZFN, in Warwick, RI, observed the remnants of two comet "hits" into the planet Jupiter using his 13.1-inch reflecting telescope (Dobsonian) and a 4 mm eyepiece. The holes created in the Jovian atmosphere were readily observable by him and interested neighbors. Observations were made at approximately 9:30 PM EDT on 19-Jul-94.

Syl would like to hear of any other reports from observations made by others using small telescopes. Syl can be reached via his packet radio address: K1ZFN @ KC1CE.

Dreamer's

Computer Communication and
Information Service
New Bedford, MA

508-991-6058 (modem)

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National Conferences ●
Multinode chat ●
Amateur Radio ●
Health and Medical ●
More! ●

Online!

● Slow scan television (SSTV) enthusiasts are invited to join the SSTV sessions being carried on the AMSAT-OSCAR-13 satellite on a downlink frequency of 145.955 MHz.

The SSTV net meets at 45 minutes before the Mode S transponder is activated, and on Mode B following Mode S sessions on Saturdays and Sundays. Comments on these nets should be directed to wb6llo@amsat.org who is coordinating the SSTV nets on AO-13.

● A group of space science educators involved in the use of classroom and school space simulators (including permanent, semi-permanent, and temporary simulators) met at University School in Shaker Heights, Ohio (a suburb of Cleveland) during July of 1994 for the purpose of establishing a national organization.

The organization hopes to facilitate the exchange of ideas, information, and technical enhancements among simulator using educators, assist teachers interested in developing space simulators, provide consultation services to teachers and schools regarding the use of space simulators in space science education, encourage the use of the computer communications as a tool for enhancing space science simulations, provide assistance regarding sources of free or low cost resources and materials from the aerospace community, government organizations, and information providers, and to advance the use of simulation as an educational technique in all areas of education.

Membership in The National Association of Space Simulating Educators is open