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WILD GOOSE ASSOCIATION

NEWSLETTER

MAY 1980

ITEM - WGA AWARD NOMINATIONS WANTED

Bob Frank, this year's chairman of the Awards Committee, needs nominations by July 15 for awards to be presented at the 1980 Technical Symposium in October. The awards are: MEDAL OF MERIT--a Medallion and framed citation for contributions of outstanding value to the development and fostering of Loran, PAPER AWARD--a Trophy with Wild Goose for outstanding paper published prior to July 1, PRESIDENT'S AWARD--an inscribed Plaque for significant achievements, selected by the President, SERVICE AWARD--a framed certificate for outstanding service to WGA, HONORARY MEMBERSHIP--framed certificate with citation for an outstanding contribution to Loran (usually restricted informally to those whose present professional activity is not Loran).

See the WGA Bylaws in the Radionavigation Journal for more details on the awards and criteria. Complete information is in the 23 September 1976 Report of the Awards Committee--sent to all members at that time; a copy will be sent by Bob on request, or he will answer questions by phone. SEND YOUR NOMINATIONS with supporting information to Robert L. Frank, 16500 N. Park Dr., Suite 720, Southfield, MI 48075. Phone: (313)559-8208. Early starts for next year's awards are also welcome!

1979 WGA AWARDS (Citations Abbreviated)

In case you missed last year's meeting the awards were:
Medal of Merit: Capt. Loren E. Brunner USCG Ret. (Leadership in operational implementation of transportable Loran-A and first overseas Loran-C, ensuring future of Loran-C).

Paper Award: James P. VanEtten (Loran-C: Its Future in the Shadow of NAVSTAR GPS--PLANS '78)

President's Award: Capt. William P. Mohin USCG Ret. (Promoting Loran-C Terrestrial Applications)

Service Awards: Leo F. Fehlner (Awards Chairman and Acting President), Lloyd Higginbotham (Founder and Editor WGA Newsletter), Eilena Roland (Convention activities), James P. VanEtten (Technical Chairman 1978 Symposium), Vernon P. Johnson (Chairman 1978 Convention)

Honorary Memberships: Capt. Clyde L. Olson, USCG Ret. (Installation and operation of Northern European Loran-C), Capt. Raymond H. Baetson, USCG Ret. (posthumously). (Many contributions to Loran-C station equipment and operation.)

ITEM - Proposed Coordinate Converter Meeting - Planning is underway to have a technical symposium on Loran-C, with major emphasis on coordinate conversion. The major thrust of this meeting will be to formulate an input to the Radio Technical Commission for Marine Service (RTCM) from the West Coast. As you may know, there is a special committee established by RTCM to examine "Minimum Performance Standards (MPS) for Automatic Coordinate Conversion Systems." This committee, RTCM SC75, is headed by Mr. Mortimor Rogoff, who has indicated his desire to attend this symposium - schedule permitting.

This meeting will be held in Long Beach, California in mid-July, 1980. Arrangements have been made to hold the symposium at the Long Beach Harbor Department Board Room, which will accommodate approximately 100 attendees. This room has complete recording facilities and arrangements will be made to provide copies of the recordings. There will be a modest registration fee to cover expenses.

Active participation from the Coast Guard is expected and, if possible, a representative of the Coast Guard will lecture on calibration of Loran-C chains, charting of the Loran-C data and how this relates to Loran-C Time Difference vs. Lat/Lon readouts.

If you have comments or suggestions regarding the prospective symposium - including preferred dates and times - please contact Walt Dean, (213) 373-1309. An alternate contact is CDR Jim Alexander: (213) 590-2247.

ITEM - CONVENTION 1980

Start making plans to attend this year's Wildgoose Convention. "A Forward Look at Loran in the 1980s" will be the theme for the ninth annual convention to be held in Boston, October 22-24 at the Bradford Hotel. Technical meetings in conjunction with Fish Expo will be held at the Prudential Center and the Department of Transportation Systems Center. If you are interested in submitting a technical paper on Loran; past, present, and future, please contact Commander David H. Amos, USCG, Program Chairman for the technical symposium at (617) 861-2934. If you have other questions concerning this year's convention, please contact Bill Rice, Convention Chairman at (617) 275-6100.

800-327-9157
 617-426-1400
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ITEM - NOIA FORMS TELECOMMUNICATIONS POLICY COMMITTEE

The National Ocean Industries Association has announced the formation of a new Committee on Telecommunications Policy. NOIA is the only national association representing all facets of the offshore industry. Since its formation in 1972, NOIA has grown to a membership in excess of 400 companies and is a respected voice for the ocean industries.

The newly chartered NOIA Telecommunications Policy Committee (TPC) was established with the following terms of reference: "The Telecommunications Policy Committee is comprised of companies concerned with government policy relative to telecommunications systems that support the offshore industry. Satellite radionavigation systems are a prime concern but terrestrial systems are also of interest as are general communications services used by the industry. The focus is on government policy and designed to keep NOIA members informed of new developments and to influence appropriate government authorities to accommodate the telecommunications requirements of the industry." For information, contact John Fuechsel at (202) 785-5116.

ITEM - Estero Communications is a consulting firm located in Los Osos, CA. The organization specializes in high seas SSB, Trimble Navigator and Loran-C. The organization is headed by Cliff Buttschardt (805)528-3228.

- ITEM - New England Sailing Yacht Symposium. The New England Section of the Society of Naval Architects and Marine Engineers, the U.S. Coast Guard Academy and the Eastern Connecticut Yacht Racing Association held a symposium at the U.S. Coast Guard Academy, New London, CT on March 22, 1980. Papers can be obtained from Justin E. Kerwin, Chairman Papers Committee, New England Sailing Yacht Symposium, New London, Connecticut 06320.
- ITEM - CANADIAN EAST COAST LORAN-C CHAIN, RATE 5930. The Canadian Coast Guard, in cooperation with the United States Coast Guard, will establish a Canadian East Coast Loran-C chain, rate 5930, during the Spring of 1980. This chain will provide Loran-C coverage for the Bay of Fundy, Georges Bank, Nova Scotia and Western Grand Banks area. Test transmissions for this chain commenced in February 1980. The stations which make up the Canadian East Coast chains are listed below along with their geodetic positions and emissions delays. Coordinates are based on World Geodetic System 1972 (WGS-72).

<u>STATION</u>	<u>FUNCTION</u>	<u>COORDINATES</u>	<u>EMISSION DELAY/ CODING DELAY</u>
Caribou, ME	MASTER	46°48'27.2"N 67°55'37.7"W	
Nantucket, MA	XRAY	41°15'11.9"N 69°58'39.1"W	13131.87/11000 Microseconds
Cape Race, NFLD	YANKEE	46°46'32.2"N 53°10'28.2"W	28755.02/25000 Microseconds

The Canadian Hydrographic Office will have charts available with 5930 Loran-C information for the area covered by this chain by the time the chain becomes operational. These charts are listed below and may be obtained from: Canadian Hydrographic Office, 1675 Russell Road, P.O. Box 8080, Ottawa, Canada K1G3H6.

- ITEM - RADIONAVIGATION IS AFFECTED BY THE 1979 WORLD ADMINISTRATIVE RADIO CONFERENCE (WARC) - The 1979 WARC was convened for 11 weeks to revise the Radio Regulations of the International Telecommunications Union (ITU). It was attended by 150 nations, and considered 15,000 proposed changes. Among those which were adopted, several changes will affect the status of radionavigation services.

The Loran-C band (90-110 kHz) was shared with Fixed and Maritime Mobile services on an equal basis. The WARC conferred priority status to radionavigation in the band. Additionally, the ITU adopted a new resolution which urges countries to coordinate the technical and operational characteristics of services in this band in order to minimize harmful interferences between each other.

The OMEGA band (10-14 kHz) previously was shared with radiolocation. The WARC expanded the band to 9-14 kHz, and provided an exclusive allocation to radionavigation.

Frequency provisions for the NAVSTAR Global Positioning System were provided by WARC in the 1559-1610 MHz band, and 1215-1260 MHz band.

ITEM - GREAT LAKES LORAN-C CHAIN, RATE 8970, BEGINS TESTING - Loran-C transmitting stations scheduled to become part of the Great Lakes Loran-C Chain, rate 8970, have commenced test signal transmissions. The signals transmitted from these stations should not be used for navigational purposes at this time. This chain should become operational for navigational use on 31 March 1980, and will provide Loran-C coverage for Lakes Superior, Michigan, and Huron. Loran-C coverage for Lakes Erie and Ontario, and overlapping coverage for Lake Huron is already being provided by the Northeast U.S. Loran-C Chain, rate 9960. The stations, which will make up the Great Lakes Chain are listed below along with their geodetic positions and emission delays. Coordinates are based on World Geodetic System 1972 (WGS-72).

<u>STATION</u>	<u>FUNCTION</u>	<u>COORDINATES</u>	<u>EMISSION DELAY/ CODING DELAY</u>
Dana, IN	MASTER	39°51'07.5"N 87°29'12.1"W	
Malone, FL	WHISKEY	30°59'38.7"N 85°10'09.3"W	14355.11/11000 Microseconds
Seneca, NY	XRAY	42°42'50.6"N 76°49'33.9"W	31162.06/28000 Microseconds
Baudette, MN	YANKEE	48°36'49.8"N 94°33'18.5"W	47753.74/44000 Microseconds

ITEM - Japan Enters Loran-C Receiver Market - The TAIYO TL-828 is a fully automatic and computer controlled Loran-C receiver. TL-828 automatically acquires and tracks master and all available secondaries in a selected Loran-C chain. All time differences (TD's) in a chain are tracked simultaneously and any two of them are displayed concurrently. Four tunable with vernier dial on front panel and two internal notch filters perfectly eliminate interferences detected by tuning control and level meter.

Memory can store up to 3 points with function switch M, S1, S2 position and is recalled easily. Hold freezes the display without affecting tracking for easy reading. The flashing of LOP1/LOP2 readout automatically warns against Loran-C transmitter's malfunction.

For further details contact Taiyo Musen Co. Ltd., 20-7, 2-Chrome, Ebisu-Nishi, Shibuya-Ku, Tokyo 150, Japan (Telephone (463)3221), Telex: 29438 Taelec J.

ITEM - From the Institute of Navigation News Bulletin - Annual Meeting plans are progressing. Plans for the Annual Meeting scheduled to be held in Monterey, California, June 23-26 are moving along well and the meeting promises to be an outstanding one. Full details will be included in a mailing scheduled for early May. The program will include a classified session.

New Corporate Members added to The ION. Five new Corporate Members have been welcomed to The ION since the beginning of the year. They are:

- Battelle Memorial Institute
- Efratom California, Inc.
- Marine Safety International
- Sercel, Inc. (Houston)
- USCG Station Alexandria

Descriptions of the activities of these organizations will be included in forthcoming issues of the Journal. The new members bring the total corporate membership to 94.

Marine Meeting site chosen. The ION 1980 Marine Meeting is tentatively scheduled for November 18-20 in New Orleans, Louisiana. Abstracts are due by August 1, 1980. For details write Capt. Charles W. Koburger, Jr., USCG (Ret), 3619 North 22nd St., Arlington, VA 22207.

Global Positioning System Monograph. Waverly Press has informed us that they have started the press run on the GPS Monograph. Response has been excellent with almost half the printing sold at press time. If you have an order placed you should receive it shortly.

ITEM - Newsletter Editor Change of Address - Your newsletter editor has rejoined General Electric-TEMPO in a new position as Manager, Field Test and Evaluation (FT&E). Responsibilities include: field test planning, instrumentation selection and calibration, system test, operational evaluation, training, test range support and system integration associated with a variety of navigation, communication and other system applications. Field Test and Evaluation personnel are located in Santa Barbara, CA; Albuquerque, NM; and Bel Air, Maryland supporting DOD Laboratories.

If any members have noteworthy Loran-C news please forward a few one-liners to your newsletter editor:

John D. Illgen
 Manager, Field Test and Evaluation
 General Electric-TEMPO
 816 State Street
 Santa Barbara, California 93101

or call Madelyn Bleak - (805) 965-0551, Ext. 338 or 336.

Associate Editors: John Beukers (Beukers Lab)
 Fred Kartilik (SCI)
 Dave Carter (USCG-G-WAN)

Contributors this quarter includes Bahar Uttam (Jaycor), Lloyd Higginbotham (Consultant), Bill Rice (ITT), Walt Dean (Consultant), Bob Frank (Consultant), Coast Guard Loran-C Bulletin Editors (G-WAN).