

File copy

Vol 88-1

BOARD OF DIRECTORS

J.D. ILLGEN.....President
 J.F. CULBERTSON..Vice President
 L.F. FEHLNER.....Secretary
 C.A. ANDREN.....Treasurer
 J.M. BEUKERS E.L. MCGANN
 R.D. BRONSON M.J. MORONEY
 D.A. CARTER W.L. POLHEMUS
 W.M. DEAN W. SCHORR
 V.L. JOHNSON J.L. TOMS
 J.P. VAN ETTEN



THE WILD GOOSE ASSOCIATION
 Post Office Box 556
 Bedford, Massachusetts 01730

WGA Contact: (805)685-8809

Circulation: 518 U.S. & Canada
 74 Foreign

25 Other.

THE GOOSE GAZETTE

Winter 1988

Bob Miller, Editor
 3751 Bayonne Drive SE
 Salem, Oregon 97301

(503)370-4490

II MORROW, INC.
 P.O. Box 13549
 Salem, OR 97309

THE GOOSE GAZETTE is an official publication of The Wild Goose Association. period of publication is quarterly with cutoff dates of 1 March for the Winter issue, 1 June for the Spring issue, 1 September for the Summer issue, and 1 December for the Fall issue. WGA members are encouraged to submit material for publication commensurate with the announced publication dates. Material should be sent directly to the Editor. All other correspondence for the WGA should be addressed to The Wild Goose Association, P.O. Box 556, Bedford, MA 01730 USA.

RADIONAV 2000

Editor

The 1988 International Conference of the Royal Institute of Navigation is scheduled for 22-24 March 1988 in London. This Conference will address the relevant European, Institutional, Economic and Technical aspects and their impact on the international scene. The implications for marine, air and land operations will be considered. The 3-day event will be of interest to both the civil and military communities as papers covering both activities will be presented. Two WGA members are scheduled to deliver presentations: Dave Scull, "Merits of a Radionavigation Plan", and Bill Polhemus, "Integration of GPS/Loran-C". Bill Polhemus has been asked to provide information on the conference for publication in the next Goose Gazette.

PRESIDENT'S MESSAGE

John Illgen

I am very pleased to report significant progress by the WGA Board of Directors, Committee members and WGA membership since the last newsletter. The Board met at the ION Santa Barbara convention on 28 January and a quorum was present. Several items of interest were discussed and actions were assigned at the meeting. The WGA Portland Oregon Convention organization has been formed by Bob Bronson and has an impressive list of individuals with known aggressive characteristics. See Bronson's report in a separate article. The type of organization being orchestrated by Bob Bronson and Bob Miller will result in an outstanding 1988 Convention. Mark our calendars now and let's try to achieve a record attendance in 1988 before the Presidential election. I encourage direct contact with Jim Culbertson for any of you who feel that special invitations should be sent to any State, Federal, or Foreign officials.

John Beukers, who I have named for the Board as a replacement for Barney Ambroseno, presented a plan for developing a new WGA publication intended to serve the global community of LORAN interests. The plan is based on 20 issues of the publication in high quality format with advertising paying for the costs of publication. The Goose Gazette will be retained in its present form. The Journal should also be retained but possibly in some other form to convey nautical information (By-Laws, Charting, etc.). John Beukers has volunteered to develop a 5-year Business Plan which will include plans to develop this project. The WGA Board has approved.

The WGA continues to make its presence and objectives known. I have asked Walt Dean to select outstanding WGA papers and to organize a WGA technical session for the IEEE Oceanic Society (OCEANS 1989 - Seattle, Washington). Leo Fehlner and Jim Culbertson plan to prepare a WGA article for publication in the International Association of Lighthouse Authorities (IALA) Bulletin pursuant to their letter request of 4 December 1987.

I was very impressed with the ION session on LORAN-C and GPS interoperability conducted on 29 January at the Santa Barbara ION Convention. This session provided further synergism with points that I conveyed in the ION luncheon address on the previous day regarding a need to establish a mix of navigation/position location systems for DoD applications.

Jim Culbertson has been following up on our resolution at the 1987 Rockville Convention regarding WGA announcements to be placed in the products' packages of Loran equipment manufacturers. Jim has suggested the use of a post card request to the WGA in a pre-printed format. Mailing the card would trigger WGA's sending additional WGA brochures, fact sheets, etc. plus a membership application form to the sender. This approach would be much easier to handle and more efficient than supplying an information brochure, fact sheet and membership application in all product packages. The WGA Board has approved this excellent idea. Actions have been assigned to develop samples for approval.

Bill Schorr, Dale Johnson, and Larry Cortland of the WGA Civil Working Group will organize representation from the WGA for the planned Air/Marine/Land Radio-Navigation Users Conference scheduled on 18 March in the FAA Auditorium in Washington, DC. This, according to the DoT, will be the only forum for public comments on the most recent edition of the Federal Radio-Navigation Plan in preparation.

Ed McGann has started preparations for the 1989 Convention to be held in Boston, Massachusetts.

The next WGA Board Meeting will be held Wednesday, 27 April in Washington, DC. Please call me if you wish to attend. A special line to contact me has been installed in my home. The number is (805)685-8809. I think I advertised this number as a hotline in campaigning for President which I now admit to an error in definition. Bob Miller has published it as such with no error on his part, but apparently some members feel that the phone is manned 24 hours a day. This was not my intention and I have asked Bob to place a separate article in this newsletter to clarify the issue and call it a Contact Line. As President, I encourage your direct contact with the Board members on issues in their assigned areas of prime responsibility. I have also asked Bob to repeat publication of the WGA Organization Chart in this issue.

On a final note, I regret the receipt of a resignation letter from Barney Ambroseno for whom I hold considerable respect for his years' of work in the WGA. Please join me in wishing Barney a pleasant and long future and extend our hopes that our paths will continue to join with time.

1988 WGA ANNUAL CONVENTION	Bob Bronson
-----------------------------------	--------------------

Committees have been organized to support the planning processes and the execution of the Wild Goose Association 1988 Annual Convention scheduled for 25-27 October 1988 in Portland, Oregon. The Committees and the Chairmen are as follows:

- | | |
|---------------------------------|--------------------------------|
| Technical Papers.....Bob Miller | Protocol.....Jim Culbertson |
| Hospitality.....John Illgen | Guest Speakers.....Paul Burket |
| Finance.....Scott Davis | Political.....Dale Johnson |
| Tournaments.....Sam Seery | Facilities.....Bob Bronson |
| Ladies Events.....Walt Dean | Publications.....Bob Miller |
| Registration.....Larry Cortland | Exhibits..... |

We expect to fill the Exhibits Committee with its Chairman fairly soon since we rely heavily on exhibitors and sponsors to help defray the expenses associated with this event.

The site for the Convention is the Portland Hilton Hotel located in downtown Portland at Sixth

Avenue and Salmon Street within walking distance of numerous exquisite stores and public attractions. Special rates have been granted to registrants of the 1988 Convention. The rate for a single is \$69 and for a double/twin it is \$85. The government rate for qualified registrants is \$55 for either the single or double/twin. These rates are guaranteed to reservation requests received by the hotel not later than 25 September.

We have chosen the theme **VERSATILE NAVIGATION WITH LORAN**, approved by the Board of Directors. Our theme is designed to attest to Loran's economical aspects, international interest, reliability, adaptability, technical understanding and expandability. The year 1988 is predicted by the WGA 1988 Convention Committees to surface new and expanded domestic and international interests in Loran. Still growing, Loran's doom can no longer be a topic with viable predications.

Our general agenda begins on Monday, 24 October with the tennis and golf tournaments and Symposium Registrations. On Tuesday, 25 October, morning and afternoon technical sessions will be split by a Convention Lunch. Wednesday, 26 October, will follow the same agenda with the addition of the Convention Banquet in the evening. Thursday, 27 October will open with a General Membership Meeting followed by morning and afternoon technical sessions and the Convention Closing.

We intend to publish a Symposium Program containing the Abstracts of papers to be presented organized by Session and by the scheduled order of paper presentation. This document will be distributed to attendees at registration and will contain space for note-keeping on each paper. Within three months of the Convention closing, the official Proceedings will be published as a single bound volume and distributed in accordance with Wild Goose Association policy.

For those staying over on Thursday night, consideration is being given to a dinner cruise on the majestic Columbia River depending on our ability to meet the minimum participation requirements.

The next two issues of The Goose Gazette scheduled for 1 June and 1 September will provide additional details and information on **VERSATILE NAVIGATION WITH LORAN**.

Mark your calendars now to reserve the week of 24-28 October for your attendance and participation in the 1988 Wild Goose Association Annual Convention and Technical Symposium in Portland, Oregon - the City of Roses.

CALL FOR PAPERS	Bob Miller
------------------------	-------------------

This is an invitation for papers to be presented at the 1988 Wild Goose Association Annual Convention and Technical Symposium to be held 25-27 October 1988 at the Portland Hilton Hotel in Portland, Oregon. The Technical Committee for the WGA 1988 annual event and its theme, **VERSATILE NAVIGATION WITH LORAN**, encourages all members of the greater Loran community from military, government, industry and academe to submit papers for consideration. Special encouragement is tendered to international representatives.

Suggested topical areas for papers include:

- Domestic Policy and Plans for Loran
- Foreign Policy and Plans for Loran
- Loran Interoperability with GPS and Other Radionavigation Systems
- Loran Issues for Maritime Operations
- Loran Issues for Airborne Operations
- Loran Issues for Terrestrial Operations

Papers on any topic of general interest to the Loran community of military or civilian regimes will be of interest. Grouping will be commensurate with overall Symposium and Session objectives.

Abstracts should be limited to 150-200 words and should explain the general content, objectives, methodology, scope, and conclusions of the paper. Free format is permitted for Abstracts.

Nominal time for presentations is 20-30 minutes including questions and answers. Other time requirements are negotiable with the Technical Chairman. A short biography of the author and/or presenter should accompany the paper. Audiovisual requirements should be included. Abstracts should be submitted to:

VERSATILE NAVIGATION WITH LORAN
 1988 WGA Convention Committee
 P.O. Box 13549
 Salem, Oregon 97309

Accepted papers will have their Abstracts published in the Symposium Program; the complete paper will be published in the official Proceedings. Special instructions for preparation of publication quality papers will be forwarded upon notification of acceptance. As publication by reproduction process is planned, these special instructions will focus primarily on format.

Milestone Schedule:

1 April, 1988	Mailing of separate Call for Papers
1 June, 1988	Supplemental Call for Papers in <u>Goose Gazette</u>
15 July, 1988	Deadline for receipt of Abstract
1 August, 1988	Notification of papers selected
15 August, 1988	Finalization of Symposium Program
1 September, 1988	Feature article in <u>Goose Gazette</u>
15 September, 1988	Deadline for receipt of camera-ready paper for publication
15 October, 1988	Symposium Program printed
25 October, 1988	Symposium Opening Day

NMEA GUIDE TO LORAN-C	Editor
------------------------------	---------------

Published in the 1987, the National Marine Electronics Association, offers a user's guide to the Loran-C radionavigation system. With chapters on how the system works, how to use it, waypoint navigation, interference, installation, and much, much more, it is written in layman's language. It also includes full coverage maps for all Loran-C chains. At \$4.50 per copy, plus 60¢ for postage, it can be ordered from:

NMEA
 P.O. Box 130
 Accord, MA 02018-0130

RTCA SPECIAL COMMITTEE 159	Walt Dean
-----------------------------------	------------------

The following is quoted from RTCA Paper No. 64-87/SC159-150, February 11, 1988 regarding the Minutes of the Eighth Meeting on Agenda Item 5: Discussion of MEGAPULSE, Inc. Letter to RTCA and Drafting of a Response (RTCA Paper No. 574-87/SC159-136).

"Mr. Edward McGann, speaking on behalf of MEGAPULSE, spoke for about 15 minutes expressing his company's view concerning the RTCA letter, It was his view that the Executive Committee should not have taken a position on GPS without polling its members. He stated that he believed that the letter would have an adverse effect on VOR, ILS, LORAN C and TACAN. He further stated that the RTCA should not move its technical competence into the political arena. He made a number of comments about the shortcomings of GPS and its high cost. He challenged whether GPS could do anything that existing systems could not do better and cheaper. The Chairman pointed out that Special Committee 159 was requested to look at GPS as a sole means and supplemental means navigation system and if GPS was to perform as a sole means system, that 24 satellites were desired from a technical standpoint. Mr. Quinby stated that he was at the Executive Committee meeting when the letter was approved, that he represented the Affiliated Independent Members, and that he was of the opinion that the letter was appropriate. He noted that the members of the Executive Committee made no objection to stating the technical position that was carried by the letter to DOD.

"Thereafter a draft response to MEGAPULSE was developed by the Special Committee and adopted without dissension."

NOTICE ON TELEPHONE NUMBER (805)685-8809**Editor**

Previously advertised as The Wild Goose Association HOTLINE, we have renamed this number a CONTACT line. It was not intended that this telephone number installed in the home of our President, John Illgen, would provide instantaneous response to the callers. The original intention was to provide the General Membership with a quick method to pass information to the President. If action were required, the President would then direct the action item to one of the Directors who holds prime responsibility in the area. The CONTACT line remains open for this purpose. It is equipped with a recorder so that your message can be delivered. However, if you have an item which you can identify as being associated with an area under a Director's responsibility, please feel free to make that direct contact. We are reprinting our organization chart in this issue so that you can keep these contact numbers nearby. The number as published in this issue is a NEW number so don't use the older one.

WGA ANNUAL AWARDS COMMITTEE**Editor**

Year after year Bob Frank winds up being the only nominator for the traditional Annual Awards presented at the Convention Banquet in October. Bob will be sending me another written plea for publication in THE GOOSE GAZETTE for the next issue, I'm sure. Instead of waiting for Bob to ask you for some help in 1988, I thought I might try to hammer home a reminder that your recommendations, in writing, can be of great service to not only Bob, but to the WGA as a whole also. No one can discredit the job that Bob has done over the years; he has performed so well that we all seem to accept whatever his judgement outcomes may be. This year, however, let's show Bob our respect for his work by helping him for a change!

NOMINATIONS AND ELECTION COMMITTEE FOR 1988**Jim Van Etten**

The 1988 WGA Nominations and Election Committee has been formed consisting of Jim Van Etten, Bill Garmany, Bill deGeorge, Jim Culbertson, and John Beukers. The committee will develop a slate of candidates for President and four Directors whose terms expire at the end of 1988. The four Directors with expiring terms are Ed McGann, Bill Polhemus, Bill Schorr, and Jim Van Etten. The slate will be presented in the next issue of THE GOOSE GAZETTE.

MEXICO SHOWS INTEREST IN LORAN-C**Walt Dean**

Coast Guard Commander Andy Sedlock was invited to Mexico City in January to brief members of SENEAM, Mexico's equivalent of the FAA, on the benefits and costs of installing Loran-C stations in Mexico. The greatest need for navigational coverage is in the western Gulf of Mexico, which is outside the range of the SEUS chain, 7980.

The Coast Guard suggested starting with two new stations, a Master near Acapulco and a secondary on the Yucatan peninsula, with Raymondville completing the triad. This would provide good coverage in the Gulf and in central Mexico around Mexico City. A third station near Mazatlan and a fourth near the U.S. border south of Tucson would provide coverage for all of the northern part of the country not served by the new SOCUS chain.

Apparently the only major obstacle in the eyes of Mexico is the cost per station at 5 to 7 million U.S. dollars. Of course, most of that money would flow back to U.S. manufacturers, so maybe there is a deal in there somewhere.

CONTINENTAL CHAINS UPDATE**Editor**

The North Central chain will be formed using new transmitters at Havre, Montana and Gillette, Wyoming. Havre will serve as the Master; Gillette will be a dual-rated secondary with the South Central chain. Two other secondaries in the North Central chain will be Williams Lake, British Columbia and Baudette, Minnesota. The South Central chain will have its Master at Boise City, Oklahoma. This chain will consist of five secondaries. A new transmitter at Santa Teresa, New Mexico will be the only single-rated secondary in the chain. Gillette, Wyoming, Searchlight,

Nevada, Raymondville, Texas, and Grangeville, Louisiana will also serve the South Central chain. In addition to this, the Master at Boise City will be dual-rated as a secondary to Dana, Indiana. One might predict that crossrate interference studies will soon be on the rise.

WGA AT THE ION NATIONAL TECHNICAL MEETING	Editor
--	---------------

The National Technical Meeting of the Institute of Navigation was held in Santa Barbara, CA, 26-29 January. WGA members serving as Session Chairmen were **Mike Moroney** and **Bob Lilley**. **John Illgen** was a luncheon speaker and addressed "The DoD Navigation Systems Mix". WGA members presenting papers were:

- Bob Bronson and Dale Johnson, II Morrow, "Progress Towards Loran-C IFR Avionics Systems"
- Bob Denaro, G. Kramer and S. Swale, TAU Corp., "Test Results of a Differential GPS System for NOAA Offshore Surveys".
- Dave Scull, DoT/RSPA, "DoT Policy Regarding Loran-C/GPS Interoperability".
- Frank van Grass, Ohio University, "Sole Means Navigation and Integrity Through Hybrid Loran-C and Navstar GPS".
- Sanjaya Sharma, II Morrow, Frank van Grass, Ohio University et al, "Validating the Airborne and Ground Based Componenets of a Differential GPS System".

Additional WGA papers scheduled but withdrawn were:

- Gary Westling, USCG, "Rate Selection and Chain Design for the USCG Loran-C Midcontinent Expansion Project".
- Bill Mooney, Mitre Corp., "Loran-C Navigators".

It should be noted that the ION specifically invited the WGA to participate in their National Technical Symposium. The final session at the meeting was a "Loran-C/GPS Interoperability Workshop with Bill Polhemus serving as the Coordinator.

WELL WISHES FOR BAHAR UTTAM	Editor
------------------------------------	---------------

Bahar Uttam was scheduled to be a Session Chairman at the recent ION National Technical Symposium. Bahar suffered a heart attack and was unable to make the trip. It has been reported that Bahar is steadily recovering and that he is expected to be back in circulation soon. Bahar is not a stranger to most of the Goose Gazette readers. Don't forget a short prayer to help Bahar in his strides for a return to full health.

GOOSE CALL MISSING AGAIN	Editor
---------------------------------	---------------

The Wild Goose Association's Goose Call is currently unaccounted for. It is believed that a reliable member accepted custody for safekeeping at the close of the 1987 Convention. Since no one knows who the custodian is, except himself, would he please contact John Illgen on the CONTACT line so that arrangements can be made for its transfer to Salem, Oregon prior to the 1988 Convention and Technical Symposium?

TREASURER'S REPORT	Carl Andren
---------------------------	--------------------

		BALANCE from 19 October 1987		\$11,677.61
<u>RECEIPTS</u>		<u>EXPENDITURES</u>		
Dues	5712.00	Treasurer's Expense	46.80	
Proceedings/Journals	165.00	Secretary's Expense	478.83	
Journal '86 Ads	2960.00	Vice President's Expense	13.70	
		Stationery Expense	348.60	
		Newsletter Expense	1221.20	
		Convention '86 Proceedings	11654.62	
TOTAL	\$8837.00	TOTAL	\$13763.75	\$ 6,750.86
				\$ 6,750.86

NOTICE TO ALL WHO WRITE**Walt Dean**

The word "loran" is not an acronym. It is a common noun and should be treated as such by all those professing familiarity with it. Used by itself, it should be lower case. The word "Loran-C" is written thus. Noah Webster is the authoritative source.

(I'll do my best to deal with it properly, Walt. No offense meant and none taken - Editor)

HYDROGRAPHIC SOCIETY INFORMATION**Leo Fehlner**

The Hydrographic Society of America, one of five national branches of The Hydrographic Society, is based at P.O. Box 732, Rockville, Maryland, 20851. Its individual and institutional members are drawn from all sectors of the U.S, hydrographic profession. Lt. Cdr. Andrew A. Armstrong, Chief, Operations Section of the National Ocean Service Hydrographic Surveys Branch, Rockville, MD, has been elected Treasurer. Cdr. Thomas W. Richards, Chief, Nautical Chart Branch of the Pacific Marine Center, Seattle, WA, and Mr. George Tselepis of the Defense Mapping Agency Hydrographic/Topographic Center have been elected Trustees.

BARNEY AMBROSENO FULLY RETIRED**John Illgen**

Barney Ambroseno, a very key individual in the WGA, who has given so much over the years has submitted his resignation from the WGA Board of Directors. It was with great regret that I accepted his resignation because Barney's enthusiasm and contributions will be missed. I have recommended to the Board the appointment of John Beukers as his replacement.

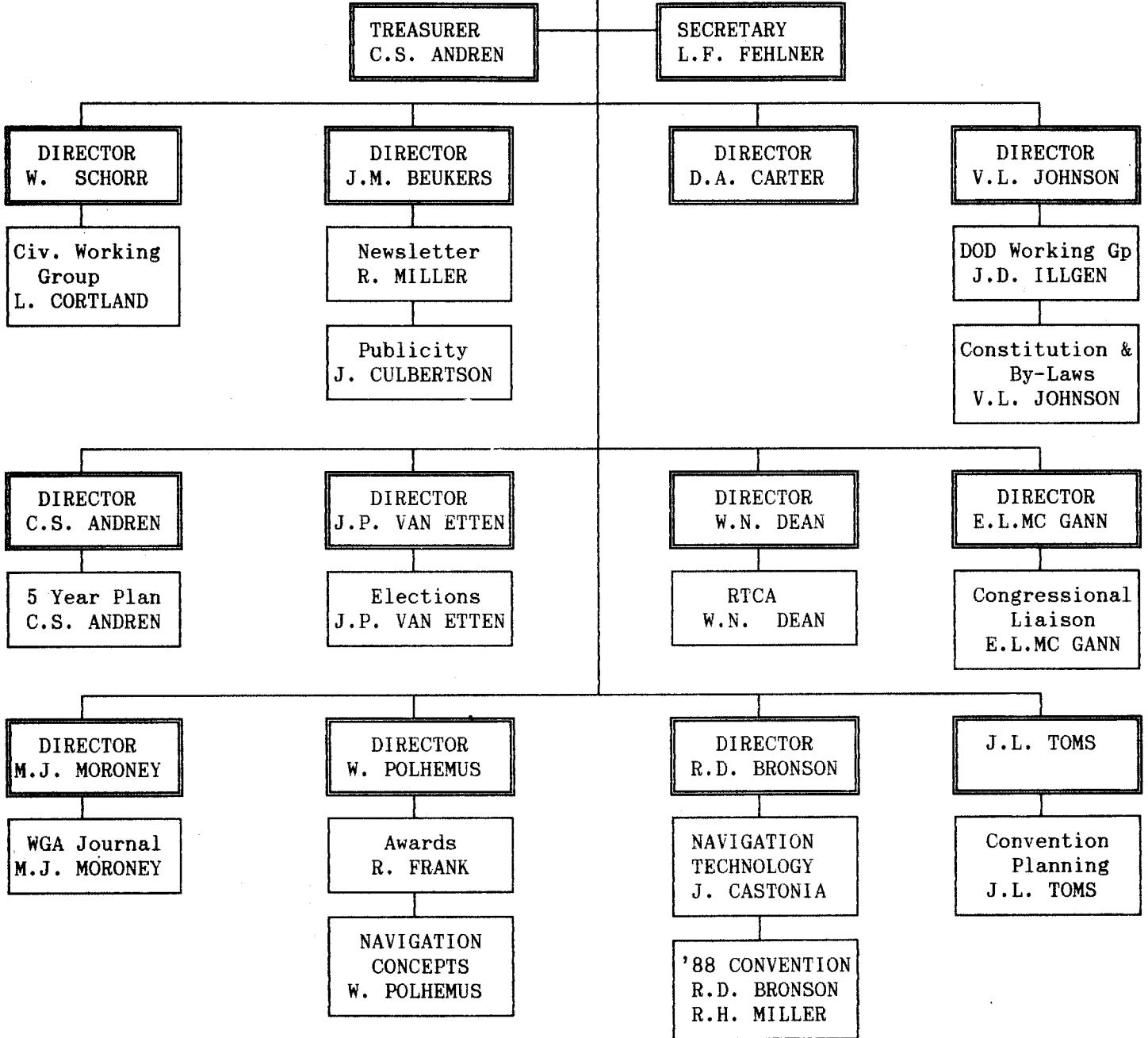
**ORGANIZATION CHART
THE WILD GOOSE ASSOCIATION**

**PRESIDENT
J.D. ILLGEN**

**WGA Contact Telephone (805)685-8809
(Recorder Equipped)**

OFFICERS:

John D. Illgen.....(805)685-8809
 Carl S. Andren.....(202)628-2436
 Leo F. Fehlner.....(301)622-0529
 James F. Culbertson..(714)531-7974



DIRECTORS:

John M. Beukers.....(516)751-0767
 Robert D. Bronson.....(503)581-8101
 David A. Carter.....(301)249-5496
 Walter N. Dean.....(503)694-1443
 Vernon L. Johnson.....(201)228-2642
 Edward L. McGann.....(617)494-2026

Maurice J. Moroney.....(617)494-2026
 William L. Polhemus....(802)644-5569
 William Schorr.....(303)695-4040
 Jimmie L. Toms.....(301)695-4040
 James P. Van Etten.....(201)661-0876

MEETINGS OF INTEREST

Editor

FEDERAL RADIONAVIGATION PLAN USERS CONFERENCE

Washington, DC, 18 March 1988

FAA Building Auditorium

42nd ANNUAL FREQUENCY CONTROL SYMPOSIUM

Baltimore, MD, 1-3 June 1988

Contact: T.R. Meeker, 2956 Lindberg Ave., Allentown, PA 18103

WILD GOOSE ASSOCIATION**Portland Hilton, Portland, Oregon, 25-27 October 1988****17th Annual Convention and Technical Symposium****Contact: Robert D. Bronson, II Morrow Inc., P.O. Box 13549, Salem, Oregon 97309****HYDROGRAPHIC SOCIETY**

RAI Congress Center, Amsterdam, 15-17 November 1988

HYDRO 88

Contact: Mr. David Goodfellow, 23 Derby Avenue, London N12 8DD