

28 January 1988

MINUTES OF THE 80th MEETING OF THE BOARD OF DIRECTORS

The 80th meeting of the Board of Directors was held as scheduled at the Red Lion Resort, Santa Barbara, California on 28 January 1988. See Exhibit 1.

Attendees:

Directors

J.D. Illgen  
J.F. Culbertson  
J.L. Toms  
W.N. Dean  
M.J. Moroney  
C.S. Andren  
W.L. Polhemus

Proxies

Culbertson for VanEtten  
& McGann  
  
Toms for Fehlner

Thirteen additional members and guests attended the meeting. See Exhibit 2.

Item 1 - Call to Order

The meeting was called to order at 1725 28 January 1988. The number of Directors present, plus proxies, met the requirements of a quorum.

Item 2 - Secretary's Report

The Minutes of the 78th and 79th meetings of the Board were accepted as written. The Secretary's Report dated 23 January 1988 was read by Culbertson. The Board unanimously agreed with the recommendations regarding death of members and a suitable WGA condolences card should be obtained by the Secretary to be sent for future deaths. The President will forward the death notices, enclosed with the report, to the editor of the Goose Gazette. The Board deferred discussion of a WGA position on new Law and the suggested position paper to New Business. The Secretary's Report was accepted. See Exhibit 3.

Treasurer's Report

The Treasurer's Report, as shown in Exhibit 4, was accepted as presented.

John Illgen then explained the Convention '86 Proceedings payment and unsuccessful attempts to reduce and reconcile the costs incurred. Legal council advised that the payment should be made. A discussion ensued concerning future Proceedings costs and how this expense should be handled. There was no official Board action except that such expenses should be included in the WGA Budget as well as in the Convention Budget planning.

#### Item 4 - Standing Committee Reports

##### a. Conventions

1986 - No Report. It was again noted that no final accounting for the 1986 Convention has been received.

1987 - A Financial Report dated January 21, 1988 (see Exhibit 5) was submitted by Toms who explained several items. Although the Report reflects income from the Convention the Proceedings has not yet been printed due to the absence of nine papers and the need for guidance on the number of copies to be printed. Toms indicated he has requests for quotation out to several printing firms and desired to submit one to Printing Impressions in Santa Barbara who printed the 1985 Proceedings - Illgen to make the connection. It was agreed that 700 copies of the Proceedings should be printed. Attendance was approximately 144. Toms to send letters to all tardy authors and if papers are not received, will print Abstracts, if available, and note that paper was not submitted. Moroney suggested that names of late paper authors be given to each Board member. The Board complimented Toms on his successful convention.

1988 - Dale Johnson of II Morrow represented Bronson. Illgen had received verbal report from Bronson before he departed ION Convention for emergency. Chairman has strong committee. Larry Cortland handling hospitality and fund raising job again. Paul Burket arranging speakers. Bob Miller is the Technical Program Chairman - very busy. Culbertson handling protocols and needs input concerning those Agencies and people who should be invited and encouraged to support the WGA Convention particularly from FAA, DOD, Coast Guard, etc. Send their names, addresses and phone numbers directly to Culbertson. Illgen stressed importance of tightening up on budget requirements for conventions. Illgen letter of 11 January 1988 to Bronson (Exhibit 6) should be answered with copies to the Board.

1989 - Ed McGann Chairman. Convention to be held in Boston, MA area. No report provided. Toms expressed need to have certain preparations planned ASAP.

Convention Reports were accepted.

b. Journal. No report. Moroney requested matter be deferred and discussed with planned presentation by Buekers under New Business. Moroney observed that letters to Board should spell Board Members names correctly - his name was spelled three different ways (Mahoney is NOT correct).

c. Membership. No written report. Toms reported approximately \$200 in the membership account. Explained procedure for new members and package of material sent. There has been little activity recently. Culbertson stated that new Fact Sheet has been prepared by Fehlner - Beukers will prepare master for duplication. Report accepted.

d. Newsletter. Illgen noted editor letter of 20 January 1988 (Exhibit 7). Letter to be included in planned Newsletter presentation

by John Beukers under New Business. Illgen reminded contributors to Goose Gazette that inputs are required by 1 March 1988. Board should look at committee responsibilities and insure appropriate news material is submitted on time. Andren raised question on rising costs of Goose Gazette - running around \$1000 or so. Item to be included in WGA budget being prepared by Andren. Report accepted.

e. Nominations. Chairman Van Etten submitted a written report dated 15 January 1988 which was read and accepted. See Exhibit 8.

f. Congressional. No written report. Illgen talked to McGann. Board is encouraged to make contact with their local Representatives and Senators to bring up and discuss Loran-C issues at hand. Illgen has mailed up dated list of Senators/Representatives to all Board members. Illgen will write some standard words as guidance to the Board and for their use in making contacts. Polhemus made point that we should not hit randomly but pick topics carefully - otherwise miss best shot.

g. Awards. No Report. Culbertson reminded Board that recommendations, in writing, are always welcomed by the Awards Chairman.

h. Civil Working Group. No report.

i. DOD Working Group. Illgen read letter report dated 8 January 1988 (see Exhibit 9). Results of meetings with Tom Quinn summarized. Illgen encourages visits with COL Nakamura when anyone visits Pentagon - he is now on POSNAV working group. CAPT AMOS, USCG spoke to Coast guard guidance given Navy on use of Loran-C and differential Loran-C for MARDEZ use in U.S. ports. Although directly related to issue in Persian Gulf, he was not addressing that issue with Navy. Andren spoke to use of HYPERFIX and its planned use in 25 harbors of the U.S. Navy does not consider the issue in Persian Gulf to be a Navy problem. Decision made by those who funded system. CAPT AMOS mentioned possible designation by EPA of Loran-C for sewage outfall monitoring from ongoing CG R&D project with Orange County, CA. DOD Report accepted.

j. Audit. No report. Illgen working with Vern Johnson to get this set up.

k. Historic. No report. Illgen working to set up. John Castonia to help.

Item 5 - Old Business

NONE

Item 6 - New Business

a. New Newsletter. John Beukers presented his plan for developing a NEW Newsletter which would serve the Loran community on a global basis. See Exhibit 10. This would be based on a 5-year plan, 20 issues, high quality with advertising paying for the costs of

publication. The Goose Gazette would be retained in its present form concerned with the affairs of and personal interest to the members of WGA. The Journal should also be retained, but possibly in some other form, to convey static information (bylaws, charting, etc). Biggest problem may be finding some one to publish the new newsletter after it is off the ground. John Beukers has volunteered to develop a 5-year business plan plus plan for getting the project started. Board approved his effort.

Further discussion was held with Toms suggesting that perhaps the new newsletter might replace the Goose Gazette (eventually). Beukers indicated it would be at least 9 months before a newsletter could be on the stands - so this is a late 88 issue to deal with. Decided to withhold any decision on next edition of Journal until we are further along with Beukers plan for new newsletter. Discussed possible name for the new newsletter. Board seemed to focus on "LORAN NAVIGATOR" as best choice.

Circulated Bob Miller's letter on expanded newsletter. Discussion by John Beukers defused this issue as the Goose Gazette would not be expanded as originally thought.

John Beukers passed out a form to be completed by all Board members concerning their personal or business computers. (Exhibit 11)

b. Culbertson introduced proposed resolution dated 28 January 1988 (Exhibit 12) concerning Board approvals/oversight for certain Convention activities. After discussion, Board agreed to provide this information to Toms for consideration in his ongoing efforts to develop standard Convention planning guidance.

c. Culbertson introduced suggestion that a post card reply request be used as the WGA insert with Loran products as discussed during the Convention meeting in Washington. Mailing in the card would trigger sending of additional WGA brochure/fact sheet plus an application blank to the person buying the Loran-C equipment. The card would be much easier to handle and less costly than a brochure or fact sheet. Idea used successfully by SOCAL Sports Car Club (see sample Exhibit 13). Board approved the suggestion. Executive committee will work to have samples developed.

d. NEW Board members/officers are advised that they can order WGA business cards. WGA pays for initial quantity of 100 - member must pay for any additional desired. Order blank included as Exhibit 14. Send directly to printer. A consolidated printing will be scheduled for 15 March 1988. Orders received after that time will be held for the next consolidated printing. Cards will be mailed directly to Board member/officer.

e. Dave Carter has accepted job as the WGA Information Resources Manager and will work closely with the Executive Board in sorting out such things as WGA computer resources and information exchange between modems.

f. Illgen has recommended that Dean submit best WGA papers to

Oceans Meeting. Exhibit 15.

g. Fehlner and Culbertson will prepare WGA Article for publication in IALA Bulletin pursuant to IALA letter request dated 4 December 1988 (Exhibit 16). Fehlner will reply to IALA.

h. Andren announced planned Air/Marine/Land Radionavigation Users Conference being planned by DOT for 18 March 1988. (Exhibit 17) This apparently will be the ONLY public forum for comments on the most recent edition of the Federal Radionavigation Plan (FRP). Dean questioned mechanism for preparing this - Board did it last time. Illgen pointed out that the new Civil Working Group under Schorr should handle this matter. Dale Johnson asked to have Larry Cortland contact Schorr. Toms to contact Schorr. Illgen to close loop with Schorr.

i. Culbertson suggested that there should be a standard ribbon for wearing the Medel of Merit around the neck - many do this but with a variety of ribbon colors, etc. Sample of ribbon (using Beukers medal) shown. Board agreed with the idea. Culbertson will pursue. Cost should be about \$1.00 per ribbon. Also discussed having some sort of WGA "presento" for speakers and others at luncheons, etc. Board concurred and Culbertson will pursue. Marilyn Beukers suggested that perhaps some nice glasses etched with the WGA logo could be considered and might be popular for sale at Conventions. A coffee cup with WGA logo also was shown.

j. TOMS reported one casualty of the Convention in Washington. The NEW honker is missing! (again). It was reported to him that a member was seen picking it up presumably for safe keeping. If anyone knows the whereabouts of the honker, please contact Jimmie Toms. Bill DeGeorge offered to donate one of his REAL honkers (lung powered). The banner survived!

k. The Massachusetts corporation document was circulated and signed by appropriate officers/board members. Culbertson will mail back to Fehlner.

l. Returned to Fehlner's report (Exhibit 3) and items for WGA position or action. Dean suggested wait until we see what happens at Friday morning sessions of ION when these issues would be discussed. Suggested that Fehlner outline what WGA position should be on each item and submit to Board for comment.

m. Beukers suggested that new Fact Sheet should be presented as an attractive three-fold. He will prepare example for Board consideration.

n. Illgen read letter sent to Toms regarding misspelling of Illgen (Exhibit 18).

#### Item 7 - Next Meeting

The next meeting will be held in Washington, D.C. On Wednesday 27 April 1988. Dave Scull can arrange meeting place. Board will be

advised of exact meeting location and time.

Item 8 - Adjournment

The meeting was adjourned at 2000.

J. F. Culbertson  
Secretary (acting)

cc: Board of Directors  
Member Attendees  
J. M. Beukers  
R. H. Miller  
A. W. Marchal

## EXHIBITS

### WILD GOOSE ASSOCIATION

Board of Directors Meeting: 28 January 1988

1. Agenda - Illgen Memo of 23 December 1987
2. Sign In Please (list) \*
3. Secretary's Report of 23 January 1988 \*
4. Treasurer's Report of 28 January 1988
5. Financial Report - 16th Convention dtd 21 January 1988
6. Illgen letter to Bronson of 11 January 1988
7. Editor, Goose Gazette letter of 20 January 1988
8. Van Etten letter to Sect. WGA of 15 January 1988
9. Illgen DOD Working Group Report of 8 January 1988
10. Beukers "Loran Navigation News" - outline 1/24/88
11. Beukers PC Questionnaire - 1/24/88
12. Proposed Resolution - Culbertson 1/28/88 \*
13. Post card response example - Group Z \*
14. Business Card Order Form \*
15. Illgen ltr to Dean - Oceanic Eng. Society (IEEE) 1/11/88
16. IALA letter of 4 December 1988
17. DOT User's Conference announcement of 22 January 1988
18. Illgen letter to Toms of 6 January 1988

NOTE: \* indicates Exhibits enclosed

All others presumed to be in  
Illgen files

# **EXHIBIT 1**

## **AGENDA**



## BOARD OF DIRECTORS

J.D. ILLGEN ..... *President*  
J.F. CULBERTSON .. *Vice President*  
L.F. FEHLNER ..... *Secretary*  
C.S. ANDREN ..... *Treasurer*  
B. AMBROSENO  
R.D. BRONSON  
D.A. CARTER  
W.N. DEAN  
V.L. JOHNSON  
E.L. MCGANN  
M.J. MORONEY  
W.L. POLHEMUS  
W. SCHORR  
J.L. TOMS  
J.P. VAN ETEN



## WILD GOOSE ASSOCIATION

DATE: December 23, 1987  
TO: WGA Directors and Committee Chairmen  
FROM: J. D. Illgen  
SUBJECT: 80th MEETING OF THE BOARD OF DIRECTORS

The next meeting of the Board of Directors will be held Thursday, January 28, 1988 at 5:15 PM in the Red Lion Inn immediately following the last ION technical session of the day. The meeting room will be posted on the hotel marquee. Please note this is a change from what we discussed at the 79th Board Meeting. The previous date conflicted with the ION reception.

If you are unable to attend please forward your committee report(s) to John Illgen, 7819 Langlo Ranch Road, Goleta, CA 93117 and provide a proxy statement.

I look forward to seeing each of you in Santa Barbara. I have attached the meeting's agenda and a revised WGA Board and Committee Organization Chart as a result of suggestion from Leo Fehlner.

## AGENDA

1. Call to Order
2. Secretary's Report
3. Treasurer's Report
4. Standing Committee Reports
  - a. Conventions
    1. 1987 Convention Report Toms
    2. 1988 Convention Report Bronson
    3. 1989 Convention Report Mc Gann
  - b. Journal Maroney
  - c. Membership Toms
  - d. Newsletter Miller
  - e. Elections Van Etten
  - f. Congressional Mc Gann
  - g. Awards Frank
  - h. Civil Cortland
  - i. DOD Illgen
  - j. Audit Johnson
  - k. Historic Frank/Castonia
5. Old Business TBD
6. New Business
  - a. Convention Approvals Culbertson
  - b. Journal Moroney
  - c. Publications/Newsletter/  
Advertising in Newsletter Benkers
  - d. Individual Membership forms to  
manufacturers for dissemination  
with each LORAN receiver purchase Culbertson
7. Establish next meeting date

**EXHIBIT 2**

**ADDITIONAL MEMBERS AND GUESTS**

**SIGN IN SHEET**

# SGH IN PLEASE

<u>NAME</u>	<u>AFFILIATION</u>	<u>TEL #</u>
FRANK VAN GRAAS	AUIONICS ENG CNTR Ohio Univ.	(614) 593-152
Robert E. Mitchell	McDonnell Douglas Helicopters	(602) 891-514
F. "CHARLIE" SAKRAN	International Omega Association	(301) 863-4578
ROBERT LILLEY	OHIO UNIVERSITY	(614) 593 1514
Bill DeGeorge	ITT AVIONICS	(201) 284-2184
RICHARD N. TURNER	OHIO UNIVERSITY	(614) 593-1524
TED MELICHAR	META, INC.	(703) 243-3608
JOHN CASTONIA	CALIFORNIA MICROWAVE	(818) 992 8000
ERIC TORANO	META INC	(703) 243-3600 516 - 862-7500 516 - 851-0767
JOHN M. BEUKERS	BEUKERS PROMOTIONS	
CAPT DAVID AMOS	USCG R+D Center	(203) 441-2605
DALE JOHNSON	II MORROW INC.	(503) 581-8101
C. L. POLHEMUS	PAI	(802) 644-5569

## **EXHIBIT 3**

### **SECRETARY'S REPORT**

## BOARD OF DIRECTORS

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



## WILD GOOSE ASSOCIATION

Post Office Box 556  
Bedford MA 01730 USA

23 January 1988

### Secretary's Report

To: The Board of Directors

From: Leo F. Fehlner

Reference: a. Secretary's Memo to the Board of Directors dated 3 Nov 1987

- Enclosures: 1. Three Death Notices  
2. Conference Report on Section 310 of Airport and Airspace Safety and Capacity Act of 1987 (The Act is not yet printed)  
3. Proxy Assignments

By Reference a, the Directors were informed of the consensus of the Executive Committee regarding the revision of the dues structure, and Directors were requested to return a ballot indicating approval or disapproval. Approvals were received from Fehlner, VanEtten, Dean, Culbertson, Johnson, Illgen, Andren, Toms, Bronson, Ambroseno, Schorr, and Carter. Polhemus disapproved. Moroney and McGann abstained. Thus the revision carried by more than a 2/3 majority. The response permitted the 1 December dues notices to be mailed starting on 15 December. 597 letters were mailed. Of these, about 100 contained only the President's letter explaining the dues increase, and were mailed to members who owed no dues, for their information. As of this date, we have collected about \$6000, which equates roughly to 300 returns.

Every year there is a sad side to the opening of the returns. This year we have received notices of the deaths of three of our members, all of whom have been members for many years. Copies of these notices are enclosed. It may not be too late for condolences. As a minimum, perhaps we should include a 'Memorium' section in the next Gazette. I suggest this as an agenda item for the 80th meeting.

By a law signed by the President on 30 December 1987, DOT has been required to complete three Loran tasks by the end of September 1989: 1. Time master stations to within 100 nsec of UTC, 2. Report on a study of Loran-C/GPS interoperability, and 3. Report on a study of the impact of time-of-emission control (TOE). See Enclosure 2. We can anticipate that the WGA will get involved with these tasks in some way, and, to address the subject with one voice, it would be wise to have an internally coordinated position established as soon as possible. As another agenda item therefore, it is suggested that the Board authorize the development of a position paper ASAP on Loran-C/GPS interoperability and related matters, such as 'sole source', improved timing of Loran emissions, chain-to-chain synchronization, synchronization to UTC, TOE control, user responsibility for coordinate conversion, etc. Such a paper would provide a firm basis for probable involvement and serve our charter interest in preserving the art of Loran.

Leo F. Fehlner  
Secretary

ORIG  
EXHIBIT 3

**EXHIBIT 4**

**TREASURER'S REPORT**

## BOARD OF DIRECTORS

J.D. ILLGEN ..... President  
J.F. CULBERTSON .. Vice President  
L.F. FEHLNER ..... Secretary  
C.S. ANDREN ..... Treasurer  
B. AMBROSENO  
R.D. BRONSON  
D.A. CARTER  
W.N. DEAN  
V.L. JOHNSON  
E.L. McGANN  
M.J. MORONEY  
W.L. POLHEMUS  
W. SCHORR  
J.L. TOMS  
J.P. VAN ETEN



## WILD GOOSE ASSOCIATION

### TREASURER'S REPORT JANUARY 28, 1988

Balance from October 19, 1987

\$11,677.61

#### TRANSACTIONS

##### RECEIPTS

Dues	5,712.00
Proceedings/Journals	165.00
Journal '86 Ads	2,960.00
	<u>\$8,837.00</u>

\$20,514.61

##### EXPENDITURES

Treasurer's Expense	46.80
Secretary's Expense	478.83
Vice President's Expense	13.70
Stationery Expense	348.60
Newsletter Expense	1,221.20
Convention '86 Proceedings	<u>11,654.62</u>
	<u>\$13,763.75</u>

\$ 6,750.86

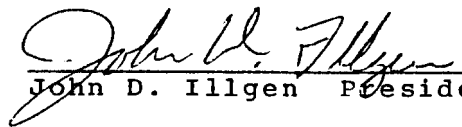
WGA Account Balance as of January 28, 1988

\$ 6,750.86

Submitted: January 28, 1988

Approved: Date Jan 28, 1988  
Board of Directors

  
Carl S. Andren Treasurer

  
John D. Illgen President



**EXHIBIT 5**

**1987 CONVENTION FINANCIAL REPORT**

## BOARD OF DIRECTORS

J.D. ILLGEN ..... *President*  
J.F. CULBERTSON .. *Vice President*  
L.F. FEHLNER ..... *Secretary*  
C.S. ANDREN ..... *Treasurer*  
B. AMBROSENO  
R.D. BRONSON  
D.A. CARTER  
W.N. DEAN  
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M.J. MORONEY  
W.L. POLHEMUS  
W. SCHORR  
J.L. TOMS  
J.P. VAN ETEN



# WILD GOOSE ASSOCIATION

WILD GOOSE ASSOCIATION  
16TH ANNUAL CONVENTION

FINANCIAL REPORT

JANUARY 21, 1988

WILD GOOSE ASSOCIATION  
16th ANNUAL CONVENTION  
FINANCIAL REPORT

INCOME:

REGISTRATION FEES	\$20,825.00
TOURNAMENT FEES	.00
GUEST FEES	1,133.00
SPONSOR FEES	2,500.00
PROCEEDINGS	60.00
MISCELLANEOUS	613.97

TOTAL INCOME

-----  
\$25,131.97

EXPENSES:

WELCOME RECEPTION	3,288.04
LUNCHEONS	4,388.03
BREAKFAST MEETINGS	415.53
HOSPITALITY SUITE	472.72
BANQUET	5,499.11
TECHNICAL SESSIONS	3,091.95
SPEAKERS	676.28
EXHIBITIONS	.00
TOURNAMENTS	.00
GEN & ADMINSTRATIVE	3,914.91

TOTAL EXPENSE

-----  
\$21,746.57

NET INCOME

-----  
\$3,385.40  
=====

*proceedings  
not printed*

WILD GOOSE ASSOCIATION  
16th ANNUAL CONVENTION  
ADJUSTING ENTRIES

	ENDING BALANCE	ADJUSTMENTS	ADJUSTED BALANCE
RUN DATE: 01/21/88			
BEGINNING CASH	.00		.00
INCOME:			
REGISTRATION FEES	20,825.00		20,825.00
TOURNAMENT FEES	.00		.00
GUEST FEES	1,133.00		1,133.00
SPONSOR FEES	2,500.00		2,500.00
PROCEEDINGS	230.00 (A)	( 170.00)	60.00
MISCELLANEOUS	3,725.97 (B)	(3,112.00)	613.97
TOTAL INCOME	28,413.97	(3,282.00)	25,131.97
EXPENSES:			
WELCOME RECEPTION	3,288.04		3,288.04
LUNCHEONS	4,388.03		4,388.03
BREAKFAST MEETINGS	415.53		415.53
HOSPITALITY SUITE	472.72		472.72
BANQUET	5,499.11		5,499.11
TECHNICAL SESSIONS	3,091.95		3,091.95
SPEAKERS	676.28		676.28
EXHIBITIONS	.00		.00
TOURNAMENTS	.00		.00
GEN & ADMINSTRATIVE	4,937.21 (C)	(1,022.30)	3,914.91
TOTAL EXPENSE	22,768.87	(1,022.30)	21,746.57
NET CHANGE IN CASH	5,645.10	(2,259.70)	3,385.40
ENDING CASH	5,645.10	(2,259.70)	3,385.40
G&A EXPENSE DETAIL:			
PRINTING	1,283.72		1,283.72
POSTAGE	1,044.55		1,044.55
OFFICE SUPPLIES	157.14		157.14
SIGNS & DISPLAYS	293.17		293.17
CAPS W/WGA LOGO	717.59	( 156.40)	561.19
GOLF SHIRTS	917.05	( 652.50)	264.55
T-SHIRTS W/LOGO	504.80	( 213.40)	291.40
MISCELLANEOUS	19.19		19.19
TOTAL G&A	4,937.21	(1,022.30)	3,914.91

NOTES:

(A)	RECEIPTS FOR PAST PROCEEDINGS	170.00
(B)	RETURN OF WGA DEPOSIT	3,000.00
	NEW MEMBERSHIP FEES	60.00
	SALE OF WGA PINS	52.00
		3,112.00
(C)	RETURN OF SHIRTS & CAPS	1,022.30

## **EXHIBIT 6**

### **CONVENTION REPORT FOR PORTLAND**

## BOARD OF DIRECTORS

J.D. ILLGEN ..... President  
J.F. CULBERTSON .. Vice President  
L.F. FEHLNER ..... Secretary  
C.S. ANDREN ..... Treasurer  
B. AMBROSENO  
R.D. BRUNSON  
D.A. CARTER  
W.N. DEAN  
V.L. JOHNSON  
E.L. McGANN  
M.J. MORONEY  
W.L. POLHEMUS  
W. SCHORR  
J.L. TOMS  
J.P. VAN ETEN



## WILD GOOSE ASSOCIATION

DATE: Januray 11, 1987  
TO: Bob Bronson  
FROM: John Illgen *John Illgen*  
SUBJECT: Convention Report for Portland

Please present the WGA Board of Directors a report on the progress for this years convention at the Board Meeting January 28, 1988 at Santa Barbara's Red Lion Inn. This report should include:

1. Budget by line item
2. Budget control procedures
3. Costs
  - Rooms
  - Meeting Rooms (including video and audio aids, soda, coffee, pastries)
  - Cocktail Reception Costs
  - Hospitality Suite Sponsors *L. Cortland*
  - Publication Costs
  - Cost of Registration
  - Menu
4. Technical Program Planning
  - Papers
  - Panel Discussions
5. Luncheon and Banquet Speakers *-Paul Buckett*
6. Identificaion of your convention committee members
7. Technical Proceedings Plans
8. Suspense Dates (call for papers, due date for papers, registration, etc.)
9. Ladies Events

I have heard that excellent progress is being made (not surprising). I believe a report on this to the Board plus any assistance the Board or other WGA members could provide you should be addressed at the January 28, 1988 Board Meeting. Again, we all thank you for accepting this project and I look forward to seeing you in Santa Barbara.

Thank you,

John

*Answer to letter*

**EXHIBIT 7**

**WGA NEWSLETTER ENHANCEMENT  
PROGRAM**

TO: WGA BOARD OF DIRECTORS  
FROM: EDITOR, GOOSE GAZETTE *Bob Miller*  
SUBJECT: WGA NEWSLETTER ENHANCEMENT PROGRAM  
DATE: 20 January 1988

The purpose of this memorandum is to present a keen sense of awareness for my concerns associated with advances in the enhancement of the Newsletter. While the fundamental concept of the direction proposed by John Beukers is theoretically most promising, I submit that the WGA assets to implement such a project are considerably in deficit.

I have reviewed with interest the letter submitted to the President by Mike Moroney which detailed the requirements to produce an annual Journal. His analysis presented the conclusion that publication costs alone amount to \$10 per copy for a run of 800 issues. Consider, if you will, the production of the current newsletter four times annually. The total financial burden is in the order of \$4400 for a run of about 600 per issue. The present effort in producing 2400 annual copies is considered highly cost effective from the viewpoint that the simplest of all production techniques is being applied. The only costs associated with the present method are those of reproducing a camera ready master by copy machine, application of labels, and postage. No costs associated with typesetting, layout, artwork, silk screening, etc. currently exist.

WGA Directors must recognize that a newsletter enhancement program which demands more than the present production capability will have to consider a large increase in costs. As a committee of one serving voluntarily to achieve the current production rate would logically become considerably overburdened with requirements normally associated with professional publishing. The present level of effort consumes in the order of some 30 hours from start to camera ready copy per issue. Annually, that's a man-month which even exceeds what most employers authorize in vacation for some 2000 hours of compensation. Any newsletter enhancement can only be satisfied by one of two options. One is to solicit a volunteer to undertake the task at a level of effort in excess of the above cited amount and another is to contract with a professional activity for the total effort. The former option is deemed impractical from a human viewpoint and the latter will generate a financial burden for the WGA greatly exceeding one annual publication costing \$8000.

It is most essential that the WGA Directors take into consideration the means to implement any enhancements to the newsletter. The contents of this memorandum should clearly indicate that the current system is riding the ragged edge of present capabilities. In the same context, Directors must be aware that the present level of effort does not support active solicitations by the Editor for input materials. It is recommended that consideration be given to a more active system which requires each Director to submit material for publication in their respective areas of prime responsibility.

The looming consequence of Board actions in oversight of reality pose the danger of another remission into nonexistence for The Goose Gazette. I hope you realize that what I'm saying is that I can't add more time to doing the work that I'm doing now. If there's another volunteer for the job, I wouldn't argue in the least at relinquishing the task.



## **EXHIBIT 8**

# **NOMINATIONS AND ELECTION COMMITTEE**

WILD GOOSE ASSOCIATION  
Nominations and Election Committee

230 Rutgers Place  
Nutley, NJ 07110  
January 15, 1988

To: Secretary, Wild Goose Association

From: Jim Van Etten

Subject: Status Report, Nominations and Election Committee

The WGA Nominations and Election Committee for 1988 has been formed. Membership is as follows:

John Beukers  
Jim Culbertson  
Bill deGeorge  
Bill Garmany  
Jim Van Etten, Chairman

Term of office for the following elected Directors expires at the end of 1988:

Ed McGann  
Bill Polhemus  
Bill Schorr  
Jim Van Etten

The committee will develop a slate in the February/March time period for President and for Directors; presentation to the President for Board of Director's action is planned by April 1, 1988.

cc: ✓ John Illgen, President  
Committee members

## **EXHIBIT 9**

# **DOD WORKING GROUP REPORT**

## BOARD OF DIRECTORS

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



## WILD GOOSE ASSOCIATION

DATE: January 8, 1988

TO: W. J. Peters                      David King  
     P. Maltby                        B. Flanders  
     R. Keating                       E. McGann  
     L. Charron                       W. Dean  
     J. Toms                           D. Amos  
     J. Hopkins                       C. Culver

FROM: J. D. Illgen *J. D. Illgen*

SUBJECT: DOD WORK GROUP

Just a note to briefly indicate the DOD Working Group is making considerable progress. Key action not reported to date includes:

1. John Hopkins has conducted successful meetings with Larry Brown (CIV), DIV. Ch., U.S. Navy, Rm 570, JPZ - Crystal City, Washington D.C. Larry Brown according to John Hopkins is a real LORAN-C ally. If you plan to visit Larry Brown be sure and obtain a data dump directly from John Hopkins.
2. Calvin Culver and John Hopkins had a very successful meeting with the DOD POS-NAV Working Group. The word is really spreading within DOD that a "Mix of Navigation" systems is required. I plan a follow-up meeting with the DOD group early this year.
3. I have conducted several meetings with Dr. Thomas Quinn (Asst. Sec. of Defense for C3I) and Richard Howe (Cittadino's replacement). Again, the interest in a "Mix of Systems" is growing.
4. Army public relations people are using "LORAN-C" in their video tapes describing systems.
5. Intelligence Agencies and Services who conduct tests and operations need systems such as LORAN-C now. Lets not forget the need for accurate timing (impacts communications and navigation as well as control systems). In a conflict redundancy is an important contribution to survivability.

### Near-Term Action

1. Illgen invited as speaker at National ION Luncheon - Santa Barbara, CA, on January 28, 1988. Please attend and provide supporting comments at the end of the talk.

2. Illgen to follow-up with briefing to Jim Atkinson and the POS-NAV Working Group.
3. Outline to be submitted highlighting sections for a position paper to be prepared by the WGA DOD Working Group Members. I will ask each of you to provide a contribution to this summary report. More on this soon.
4. Please provide presentations to DOD on the need for a Mix of Navigation Systems whenever possible and inform committee members and myself of progress.
5. I plan a meeting in Washington, D.C. within the next three months.

John Illgen  
WGA DOD Working Group Chairman

**EXHIBIT 10**

**LORAN NAVIGATION NEWS OR  
THE NAVIGATOR  
OR THE LORAN NAVIGATION**

**LORAN NAVIGATION NEWS  
or THE NAVIGATOR  
or LORAN NAVIGATION**

or ?

**An Outline**

**1. Purpose**

There are two publications of the WGA in addition to the proceedings of the annual technical conference. These are the Journal and the Newsletter. The Newsletter tends to be concerned with the affairs of the WGA and does so in a personal manner to the association. The Journal, being an annual publication, serves as an update on the affairs of the association and provides reference information. News, if presented, is dated because of the infrequency of publication. Both publications are free to the membership.

There is a need for a third publication that will serve the Loran community on a global basis. This will provide information and news in a regular and timely manner. Its scope will be substantially expanded from the current publications. It will teach, provide history, give news of current operations and provide a forum for communication throughout the loran community and regulatory bodies.

**2. Audience**

The new proposed publication will have a wide readership. It will be directed towards users in the land, sea and air applications, governments, committees, technical personnel, regulatory bodies, both domestic and international.

**3. Circulation**

The circulation will be paid by subscription. This will be achieved through advertising and, with the cooperation of manufacturers of equipment, by providing a one year free subscription with each equipment sold. WGA members will receive the publication free of charge.

**3.1 Quantity**

The goal should be a paid circulation of 10,000. This is considered a reasonable target considering the number of current users of loran and those projected over the next five years.

### **3.2 Mailing**

The publication will be mailed domestically in the now common polyethylene wrappers. Overseas subscriptions will reflect the additional postage required. Four issues (minimum) a year will be sent to subscribers.

### **4. Frequency**

For news to be news and chain information to be of current value the publication should be created monthly. This however is considered to be too ambitious at the start. If a quarterly issue is successful then a more frequent publication schedule could be considered.

### **5. Mechanicals**

The publication should be of high quality, typeset and in two colors.

#### **5.1 Size**

The page count at the start should be between 25 and 50. The page size will be 8 1/2x11.

#### **5.2 Style**

Styles will be selected to be consistent with the audience and messages that are being communicated.

#### **5.3 Binding**

Binding will be saddle stitch.

### **6. Advertising**

The publication will carry paid advertising at rates consistent with the circulation. Manufacturers of equipment in allied fields will be contacted to place advertising. There will be a classified section and one for consultants. WGA members will be entitled to free listings in the classifieds and consultants.

### **7. Business Plan**

For the publication to be successful a business plan has to be generated. The publication must yield a net income to the WGA which can be used to provide funds for the other publications and to help support the annual technical conference. Consideration should be given to having a publishing company undertake to provide the publication.



## **8. Content**

Below are listed some of the possible contents of the publication.

- 8.1 Letters**
- 8.2 Announcements**
- 8.3 Chain Information**
  - 8.3.1 Current Information**
  - 8.3.2 Chain Details**
  - 8.3.3 Coverage**
  - 8.3.4 Technical Topics**
  - 8.3.5 Maps and Charts**
- 8.4 News**
  - 8.4.1 General Interest**
  - 8.4.2 Other Navaids**
- 8.5 History**
  - 8.5.1 Articles**
  - 8.5.2 Bibliography**
- 8.6 Teaching Articles**
- 8.7 Association Input**
  - 8.7.1 ION**
  - 8.7.2 IOA**
  - 8.7.3 NEMA**
- 8.8 Committee Input**
  - 8.8.1 RTCA**
  - 8.8.2 RTCM**
  - 8.8.3 IALA**
- 8.9 Government Input**
  - 8.9.1 DOD**
  - 8.9.2 USCG**
  - 8.9.3 FAA**
  - 8.9.4 Federal Plans**
- 8.10 International Input**
  - 8.10.1 USSR**
  - 8.10.2 China**
  - 8.10.3 Japan**
- 8.11 User Input**
- 8.12 Meetings**
- 8.13 Sections**
  - 8.13.1 Land**
  - 8.13.2 Sea**
  - 8.13.3 Air**
- 8.14 WGA Business**
  - 8.14.1 Meetings**
  - 8.14.2 Technical Program**
  - 8.14.3 Publications**

#### 10. Consultant Listings

These can be from individuals and will be at no charge to members

#### 11. Corporate Listings

Corporate members of the WGA will be listed at no charge

#### 12. Action.

It is recommended that the WGA board of directors consider this document as a proposal to get a publication off the ground that will serve to increase communication between the outside world and the small technical WGA membership. It will serve the WGA charter of "fostering the art of loran".

Respectfully submitted



John M Beukers

**EXHIBIT 11**

**WGA BOARD OF DIRECTORS  
PC QUESTIONNAIRE**

## **WGA BOARD OF DIRECTORS PC QUESTIONNAIRE**

This list of questions is provided to you so that we can determine the best means of communication between directors, committee members and the membership at large. It would be an ideal situation if everyone had the means for creating written work in a word processor and was able to communicate by modem.

1. Do you own, or have access to a personal computer?

If so then:

2. What is the type and model?

3. What operating system is used?

4. Number of disk drives?

5. Type of disk drives and size?

6. If hard disks, what is their capacity?

7. What type of display, mono, CGA, EGA, VGA?

8. How much RAM?

9. Do you have a modem?, what type, baud rate?

10. Other features of PC system, please list.

11. What software do you use?

11.1 Database Manager (Dbase IIIPlus, Rbase V etc)

11.2 Wordprocessor (Word, Wordperfect etc.)

11.3 Spreadsheet (Lotus, Excell, Quatro etc.)

11.4 Communications (Crosstalk IV, Carbon copy etc.)

11.5 Other

12. Do you access bulletin boards and/or data services?

13. If you haven't yet tasted the wonders of data communication and what the PC can do for you, are you interested to get involved and would you be willing to do so?

14. Do you have access to a Fax machine, if so what type?

When you have had a chance to review these questions and give your input, please return the questionnaire to:

**HOME**

John M. Beukers  
8 Old Wood Road,  
Stony Brook, NY 11790

Phone: 516 751-0767  
Modem: Hayes 1200 and Hayes 2400 baud 516-751-0767  
Fax: NEC bit 1 Group 3. 516-751-0767

-or-

**WORK**

Beukers Promotions Inc.  
Flowerfield Building 7  
St. James, NY 11780

Phone: 516-862-7500  
Modem: 526-862-7500  
Fax: NEC bit 1 Group 3. 516-862-7403

## **EXHIBIT 12**

### **PROPOSED RESOLUTION**

# WILD GOOSE ASSOCIATION

## PROPOSED RESOLUTION

28 January 1988

The following Proposed Resolution concerning oversight and approval of Convention Activities is submitted for Board action.

### BACKGROUND

Over the years, various different members have become involved in planning and executing the annual technical meeting and convention. The result has been some inconsistencies and outcomes with unpleasant surprises. Jimmy Toms is Chairman of a committee to document and formalize the convention planning procedures so that ensuing chairpersons have a guide to follow including the results of prior conventions.

To assist the Board in tracking the convention planning process and provide positive support to the convention chairperson, I propose that the following lists of planning items, events and evolutions receive Board approval or oversight as indicated.

This Resolution should be made a part of the Convention planning documentation with the Chairman for each convention being responsible to submit requests for approval/oversight to the Board in a timely manner.

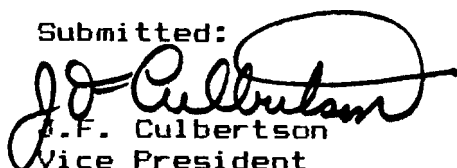
### ITEMS REQUIRING BOARD APPROVAL

Convention location	Convention dates
Cash Advance	Hotel/facilities location
Banquet Speaker	Final Report/accounting
Keynote Speaker	Theme of convention
Proceedings Publication Plans	

### ITEMS REQUIRING BOARD OVERSIGHT (notification)

Technical Program	Convention Budget (quarterly)
Luncheon\ Speakers	Quarterly Reports
Registration Fees	Convention hotel room costs

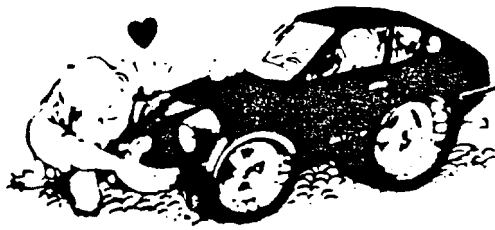
Submitted:

  
J.F. Culbertson  
Vice President

# **EXHIBIT 13**

## **SAMPLE**





PLACE  
STAMP  
HERE

**Group *Z* sports car club**

P.O. BOX 10497, SANTA ANA, CALIFORNIA 92711

EXHIBIT 13

**Group *Z*  
sports car club**

A FUN ORGANIZATION  
WITH A COMMON BOND . . .

**THE FABULOUS Z CAR!**

MONTHLY MEETING & NEWSLETTER

TOURS . . . . SLALOMS . . . . RALLYES

CONCOURS . . . . PARTIES . . . . & MORE

PARTS AND SERVICE DISCOUNTS

CARE & MAINTENANCE PROGRAMS

***Join The Group!***

**TELL ME MORE!**

Name \_\_\_\_\_

Address \_\_\_\_\_

City, Zip \_\_\_\_\_

Referred By: \_\_\_\_\_

**EXHIBIT 14**

**WGA BOARD BUSINESS CARDS APPLICATION**

PRINTING IMPRESSIONS  
526 Laguna Street  
Santa Barbara, CA 93101  
(805) 962-8193

**WILD GOOSE ASSOCIATION BUSINESS CARD ORDERING FORM**

To order your Wild Goose Association business cards, complete the information outlined below and mail the form directly to the printer. The cards will be printed two colors; black and blue on a white, dull coated cover stock.

100 cards for each Officer will be paid for by the Association. If additional cards are requested, the officer ordering will be billed.



**WILD GOOSE ASSOCIATION**

-----  
(name)

-----  
(title)

**Residence:**

**Business:**

Completed cards will be mailed to the residence address unless otherwise noted on the order form. If only one address is desired, indicate on form. Phone number should be added at end of address.

**Note to Printer:**

Advise Jim Culbertson (714) 531-7974 of extra printing cost for each batch. Submit approved billings to the Treasurer, Wild Goose Association, Carl S. Andren, 3160 Readsborough Court, Fairfax, VA 22031.

## **EXHIBIT 15**

**IEEE OCEANIC ENGINEERING SOCIETY**

## BOARD OF DIRECTORS

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



## WILD GOOSE ASSOCIATION

DATE: January 11, 1987

TO: Walt Dean

FROM: John Illgen *John Illgen*

SUBJECT: IEEE OCEANIC ENGINEERING SOCIETY

I have received your letter dated November 17, 1987 (Best Papers at 1987 WGA Convention). As Oceanic Engineering Society (IEEE) Technical Chairman for Communications and Navigation I would like to suggest these winning WGA papers be presented at Oceans 1989 to be held in Seattle, Washington. Perhaps a Technical Session could be formed based on these 5 papers

I would like to invite you to participate with me in establishing a session that includes exceptional LORAN-C papers for Oceans 1989.

I will be receiving a call for papers early January 1988. Due date for abstracts is March 15, 1988.

**EXHIBIT 16**

**I A L A**



*Association Internationale de Signalisation Maritime*  
*International Association of Lighthouse Authorities*

From: Paul Ridgway, Editor Designate,  
The IALA Bulletin,  
No3, The Green,  
Ketton,  
Stamford,  
Lincolnshire.  
PE9 3RA  
Telephone 0780 721628

PR/JS

4 December, 1987  
30 Dec 87

Mr. L.F. Fehlmer,  
Secretary,  
The Wild Goose Association,  
P.O. Box 556,  
BEDFORD,  
Mass. 01730,  
United States of America.

John,  
I received this the day  
before yesterday. Jim C. and I  
have talked about this on the  
phone. If you consent, I will  
prepare an affirmative response.  
Jim and I will do it. Leo

Dear Mr. Fehlmer,

IALA Bulletin

I take over from Strahan Soames as Editor of the IALA Bulletin early next year and am now making preparations for articles during 1988. At a recent discussion following an Executive Committee Meeting of IALA the Secretary General agreed that it would be useful to have a definitive article on the work of the Wild Goose Association and in this respect I would be most grateful if you could kindly consider producing a work of, in the region of, 1,000 words which could be used in the IALA Bulletin next year please. A selection of photographs would be most welcome and I hope that your piece will concern the history, developments and touch on plans for the future of the Wild Goose Association.

If you have any queries on this please do not hesitate to let me know.

May I take this opportunity of wishing you all the very best for Christmas and 1988.

Yours sincerely,

*Paul Ridgway*

**EXHIBIT 17**

**RADIONAVIGATION USERS CONFERENCE**



TO: WGA BOARD OF DIRECTORS

FROM: EDITOR, GOOSE GAZETTE



SUBJECT: RADIONAVIGATION USERS CONFERENCE

DATE: 22 January 1988

I received a call from the FAA as an alert to a scheduled Radionavigation Users' Conference to be held in the FAA Auditorium in Washington, DC on 18 March. Additional information will be sent by mail, but I wanted the Board to be alerted since I doubt if the information can reach the members in the next newsletter issue.

Surely the WGA can negotiate coverage with someone and provide me with the minutes or a writeup of the proceedings. It might warrant another late mailing of the newsletter to accomodate the information from this conference. Let Bob Bronson know what the Board wants done and he'll inform me. As of now, I have no locked position to go one way or the other.

**EXHIBIT 18**

**ILLGIN, ILGIN, ELGIN, NEVER MIND I FORGOT  
HOW TO SPELL IT!**

**JOHN ILLGEN**

## BOARD OF DIRECTORS

J.D. ILGIN	President
J.F. CULBERTSON	Vice President
L.F. FEHLNER	Secretary
C.S. ANDREWS	Treasurer
B. AMBROSINO	
R.D. BRONSON	
D.A. CARTER	
W.N. DEAN	
V.L. JOHNSON	
E.L. McGANN	
M.J. MORONEY	
W.L. POLHEMUS	
W. SCHORR	
J.L. TOMS	
J.P. VAN ETTEN	



## WILD GOOSE ASSOCIATION

January 6, 1988

Mr. Jimmie Toms  
Advanced Navigation Inc.  
61 Thomas Johnson Drive  
Frederick, MD 21701

Dear Jimmie,

I have received your letter dated 28 October 1987. After spending days and nights (tossing and turning) I have learned my true identity as a result of the report you provided me from the Internal Affairs Investigative Unit.

I thought for a moment I must be related to the watch/clock empire (Elgin). No, I then realized my name was Ilgin or Illgin. No again. Finally, I thought I forgot how to spell my own name. Could this be true?

Then, I realized as a result of receiving the investigative report that the spelling was due to poor accuracy and resolution produced by none other than the President of Advanced Navigation, Inc. (who claims highest accuracy and resolution).

Now I am confronted with the embarrassment and educational process of my friends, colleagues and family worldwide. I recently received a hint as to the action that must be taken by your high precision organization to avoid litigation and action of the Supreme Court of the United States of America. This action includes compensation for errors as follows:

1. A massive worldwide radio, TV and newspaper campaign recalling all errors and showing corrective action.
2. Reprint of placement cards and the agenda
3. Personally undertake a trip to visit all participants who have received inaccurate data from ANI.
4. Or else buy me a bottle of Wild Turkey Rye (101) for presentation to me at the next convention.

Best regards,

*John D. Ilgin*  
John D. Ilgin  
John D. Illgin  
John D. Elgin  
John D. Illgen

cc: All ANI, Customers,  
Investors, etc.  
President and Chairman of  
the Board - Compu Dyne

**ATTACHMENT A**

**1989 CONVENTION REPORT**

## BOARD OF DIRECTORS

J.D. ILLGEN ..... *President*  
J.F. CULBERTSON .. *Vice President*  
L.F. FEHLNER ..... *Secretary*  
C.S. ANDREN ..... *Treasurer*  
B. AMBROSENO  
R.D. BRONSON  
D.A. CARTER  
W.N. DEAN  
V.L. JOHNSON  
E.L. McGANN  
M.J. MORONEY  
W.L. POLHEMUS  
W. SCHORR  
J.L. TOMS  
J.P. VAN ETEN



## WILD GOOSE ASSOCIATION

TO: John D. Illgen *ELM*  
FROM: Edward L. McGann, Chairman  
DATE: January 20, 1988  
SUBJECT: Committee Report - 1989 Convention, Boston

Initial hotel contacts in Boston city proper (in more ways than one) have been discouraging for mid-week October convention. October is the peak convention season in Boston. Some alternatives can be explored at the Board's direction.

- . Convention starting Monday with significant Sunday night room occupancies.
- . Weekend convention (as per NOIA) opening Friday night.
- . Non-city center locations as out on Rt. 128 (25 miles from Boston) or within 50-75 miles of Boston such as Hyannis on Cape Cod, Plymouth near Cape Cod, Gloucester/Rockport north of Boston, lower Maine or coastal New Hampshire, or Nantucket Island.

None of the above will be easy since all have the same foliage tourist rush during October, but these areas do not attract the very large conventions which tend to fill up mid-city hotels.

Needs -- please give me previous convention data.

Recommendation -- If a satisfactory location is not located by mid-1988 in the Boston area, a new 1989 Convention location should be nominated. Perhaps, in fact, a backup position might be considered beginning at this January '88 Board Meeting.

c: L. Fehlnner

**ATTACHMENT B**

**CONGRESSIONAL LIAISON COMMITTEE**  
**REPORT**

## BOARD OF DIRECTORS

W. N. DEAN . . . . . President  
J. F. CULBERTSON . . . . . Vice President  
L. F. FEHLNER . . . . . Secretary  
C. S. ANDREN . . . . . Treasurer  
J. ALEXANDER  
B. AMBROSENO  
D. A. CARTER  
J. D. ILLGEN  
V. L. JOHNSON  
A. W. MARCHAL  
E. L. McGANN  
M. J. MORONEY  
W. L. POLHEMUS  
W. SCHORR  
J. L. TOMS  
J. P. VAN ETEN



## WILD GOOSE ASSOCIATION

TO: John D. Illgen

FROM: E. L. McGann, Chairman, Congressional Liaison *ELM*

DATE: January 20, 1988

SUBJECT: Committee Report - for January 1988 Board Meeting

Most of the effort since the Convention by this committee has been directed to the mine warfare community with the intent of reversing the posture of that user group toward Hyperfix in the U.S. and in the Persian Gulf. Sad to say to date that the USN presently remains committed to the Hyperfix as its "system of choice" for U.S. waters mine warfare -- which means it would prefer to see Hyperfix operated in other areas of possible activity such as the Persian Gulf.

The USN position is hard to understand -- the issue has been brought to the attention of individuals as high as the Secretary of the Navy (by Congressman Denny Smith) and to the OpNav Program office by Congressman Chet Atkins (Mass.) without any effect to date.

Technical support for Loran-C for mine warfare activities has been expressed (strongly sometimes even with rising crescendo) by the USCG (Technical Groups, especially the R&D Center), by the Applied Physics Lab of J.H. as consultants to the USN and, most strongly, by the operational elements of the mine warfare community.

This issue will be pursued. It would help greatly if all Board members would identify their Congressmen and Senators as well as any others they may have contact with and any Congressional Aides or staff people who they know may help to keep the pressure on this area.

In the Gulf, the program has reverted to a strictly Japan/UK (Racal) activity with the US/USN just looking on. Little actual progress appears to be taking place in getting all the Gulf states to agree to all conditions and cooperative efforts needed. The U.S. appears politically unwilling to step back in now that it has erroneously named the Racal Hyperfix system as its "system of choice" for mine warfare. Any inquiries, contacts, etc. by the USN to any Loran-C organization, lauding Loran-C would be most useful if copies thereof could be forwarded to the Chairman.

Committee Report - for January 1988 Board Meeting  
Page 2.

Personally, your Congressional Liaison Committee Chairman has written RTCA opposing their support for an expanded GPS satellite configuration. Although my real objection was to the actions of the RTCA Executive Committee not to SC-159, I have been offered the opportunity to participate in the SC-159 on 21 January 1988 to express my views. It should be an interesting session.

As a third item, I would like to reiterate that the ION has responded to our objections as to the imbalance of their last Technical Conference by presenting a very attractive/balanced program for their January '88 Santa Barbara meeting. I hope the WGA will so acknowledge formally -- it was most gracious of ION. It is hoped that the Loran-C community presence will be felt in Santa Barbara both in terms of numbers and in active participation with perhaps more involvement in committee and officer roles in the future.

Finally, your Chairman will be attending both the Int. Assoc. of Inst. of Navigation meeting in Sydney, Australia in early February '88 and the RION meeting in the UK in March. We hope that at each event there will be further evidence of Loran-C positive movement and growth worldwide. A report will be made for the next Board meeting.

cc: L. Fehlner



**ATTACHMENT C**

**LETTER FROM CAPTAIN DAVE AMOS  
DOD WORKING GROUP**

USCG R&D Center  
Avery Point  
Groton, CT 06340

DATE: 19 JAN 88  
TO : John Illgen  
FROM: Dave Amos  
SUBJ: DOD Working Group

John,

I have been working closely but with only moderate success to date with the U.S. Navy on the use of differential Loran C for mine countermeasures (MCM) navigation. This came to a head with the startup of activity in the Persian Gulf. I believe we may have discussed this particular area at WGA last October. My work with the Navy has gone beyond that into application of differential Loran C for precise navigation and positioning in CONUS for the MCM community. In particular, I have been trying to convince them that differential Loran C can provide them with a cost effective and timely repeatable navigation system in most of the CONUS harbors of interest to them.

There are two obstacles to bringing them into this line of thinking. First, the inertia of Hyperfix is real, and they are unwilling to admit that Loran C can provide them with the service they need now, in the time before their Hyperfix system becomes operational, and can function as an alternate system after that for redundancy and reinitialization of Hyperfix. Second, there are elements of the community that continue to insist that a truly geodetic system is required to effect interoperability between the various units involved in MCM operations. These units use a mix of radionavigation systems, including Hyperfix, Miniranger, Loran C, GPS and some residual Raydist. I have discussed the pitfalls of this approach in open forum with them, and proposed as an alternative use of one common system, differential Loran C, that can be implemented in a short time and done economically. As a point of interest, almost all units that are involved in MCM operations are already Loran equipped, and at the operator level extremely satisfied with its performance. It is a thread that already runs through the MCM community.

There are several issues that support the implementation of differential Loran C for the CONUS MCM mission, besides its precision and low implementation and support costs. The implementation of Hypefix systems in the US is lagging, and in the Persian Gulf is progressing very slowly. The statistics of Hyperfix performance are at best, unclear. I have not been able to nail anyone down with hard numbers. In order to paint a clearer picture of this, we will be conducting an accuracy and precision comparison of differential Loran C, Miniranger, and Hyperfix, using differential GPS as ground truth, in the area around New London harbor, in conjunction with an R&D project to do the detailed Q-Route survey here and demonstrate new command and control technologies available for that mission. Finally, there are a set of Q-routes that go coastwise, called coastal Q-routes, that are an intrgral part of the entire Q-route system. These are not covered by Hyperfix, and won't be.

We have some distance to go. I believe we are making progress. I think that the demonstrated availability, reliability, and performance of Hyperfix will be our ally.

I hope to see you at ION.

Sincerely,

A handwritten signature in cursive script, appearing to read "Dave".

Dave Amos