Board of Directors

ames F. Culbertson President
David C. Scull Vice President
Walter N. DeanSecretary
Carl S. Andren Treasurer
John D. IllgenPast President
John M. Beukers Exec. Administrator
James O. Alexander
David H. Amos
Kjell O. Enerstad
Bruce E. Hensel
Robert W. Lilley
Henry E. Marx
Edward L. McGann
Mark P. Morgenthaler
Maurice J. Moroney
William L. Polhemus
James P. Van Etten

Revan 12/6/91

Wild Goose Association

The International Loran Radionavigation Forum

Minutes of the 98th Meeting of the Board of Directors September 30, 1991, Williamsburg, VA.

1. <u>Call to Order</u>

The 98th meeting of the Board of Directors was convened at 4:05 pm, in the Fort Magruder Inn, Williamsburg, Virginia, by President James Culbertson.

2. Attendance, Proxies and Statement of Quorum

The following Board members were in attendance:

Jim Culbertson, President
Dave Scull, Vice President
Carl Andren, Treasurer
Walt Dean, Secretary
Dave Amos
Kjell Enerstadt
Bruce Hensel
Bob Lilley
Henry Marx
Ed McGann
Mark Morgenthaler
Mike Moroney
Jim Van Etten

Also attending:

Dave Olsen Zeke Jackson Bob Frank Frank Cassidy Bill Mooney

The secretary reported that the number of Directors present constituted a quorum, and equaled the two-thirds required for ratification of amendments to the By-Laws.

The president stated that an agenda for the meeting had been distributed and would be followed.

3. Adoption of Minutes

Minutes of the 96th meeting of the Board of Directors were accepted. Acceptance moved by Andren, seconded by Marx.

Minutes of the 97th meeting of the Board of Directors were accepted. Acceptance moved by Andren, seconded by Van Etten.

4. Secretary's Report

The Secretary reported that the paid membership is now 459, but that mailings are also sent to 181 one year in arrears, and 92 two years in arrears.

5. <u>Treasurer's Report</u>

Carl Andren stated that he had prepared some viewgraphs for the general meeting, but had on formal report. A copy of the balance sheet and ledger were made available, and taken by the Secretary. Acceptance was moved by Marx, seconded by Morgenthaler.

6. <u>Executive Committee Report</u>

The Executive Committee Report was presented by Jim Culbertson. A written copy was circulated to Board members prior to the meeting.

Dave Scull reported that a letter had been sent to the Coast Guard regarding the shutdown of the CENPAC loran chain.

Acceptance of the XCOM report was moved by Andren, seconded by Van Etten.

7. Standing Committee Reports

Audit

Andren reported that the audit was not yet done, but would be done in time for the next BOD meeting on Thursday.

Awards

Bob Frank reported for the last time as awards chairman, having announced his resignation from that position. He discussed the Student Paper award, which he felt should be reserved for an undergraduate (not a doctoral candidate). He questioned whether an honorarium should be considered.

The Medal of Merit this year goes to Jesse Pipkin, and the paper award to Martin Beckman. Dave Scull was selected for the President's Award, and service awards go to Jim Alexander, Bob Miller and Larry Cortland for their work on the 1990 Convention.

Jim Culbertson was given a standing ovation by the board in addition to a service award for his efforts as President for the past two years.

Bob suggested that more publicity be given to the awards, and that an awards notebook be compiled to record all the awards given over the years.

Constitution

Copy of the Constitution Committee report was distributed to all directors prior to the meeting. The Life Membership amendment was approved, and the change in the XCOM to include the immediate past President was also approved by the membership.

Elections

Copy of the Nominations and Elections Committee report was distributed to all directors prior to the meeting. Bob Lilley has been elected President. Directors elected are Dave Amos, Laura Charron, Walt Dean and Dave Scull. Frank Cassidy will occupy Bob Lilley's place on the board.

Conventions

Andren reported that all finances had been cleared from the 1990 convention, and that the book is now closed on this.

Jackson reported that attendance at the 1991 convention was approximately 100, that the Navtech symposium was well attended, and that the Russian delegation had not showed up. A financial success is expected.

John Beukers was not present to report on plans for the 1992 convention. Kjell Enerstadt reported that there will be a meeting 31 October of the European loran group to determine if they will go ahead with loran without Great Britain. If the decision is negative, this could affect the desirability of holding the 1992 WGA convention in England. It was suggested that a backup plan be produced. Mark Morgenthaler accepted the chairmanship of the 1993 convention, to be held in the San Francisco Bay area, with the possibility that it might be moved up to 1992 if England turned out to be undesirable.

Journal

No report.

Newsletter

The report on progress of the Goose Gazette, submitted by Bob Lilley, was included in mailing to directors prior to the meeting. President-elect Lilley is looking for a new editor for the newsletter.

Special Committee Reports

Government Liaison

Moroney reported that, as a result of problems in certifying the Bendix-King KLN-88 for approaches, there has developed in the FAA some arguments that Loran-C is not a viable system for the national airspace. A meeting is scheduled in Washington on October 16 to further discuss this problem, and it appears urgent that supporters of loran come prepared to defend the system.

Users Liaison

Bruce Hensel's report on activities of the Users Liaison Committee was provided to directors prior to the meeting.

IALA Liaison

Kjell reported that IALA had finally approved Loran-C as an acceptable radionavigation system.

IOA Liaison

Olsen reported the IOA will hold its 1992 meeting in the Netherlands. They are looking at possibilities of integrating with another society (WGA?).

FRP Review

The current deadline for comments for the 1992 issue is February 7, 1992. There will be a DOT Users Conference in Alexandria, VA on November 19 and 20, with an additional Aviation Users session on November 21, at the Embassy Suites Hotel. An additional West Coast Conference will be held on December 5, in Seattle, at the Sheraton Hotel and Towers. Carl Andren was appointed delegate to the Alexandria conference and Walt Dean was appointed delegate to the Seattle conference.

9. Old Business

Mid-Continent Dedication

Attendance at El Paso May 14-15 was disappointing. John Beukers' report on the event is attached.

WGA Computer Systems

Dave Scull has spend considerable time getting the system, now located at NavCom, up and running. He has hired part-time help to perform routine tasks, but still has to spend too much time on it himself. Suggestions were made that a paid position is desirable to maintain and operate the system.

Reprinting of Constitution and By-Laws

Dave Scull has had the Constitution and By-Laws reprinted, and distributed copies at the meeting. He requested that any corrections found to be necessary be sent to him as soon as possible. There was discussion as to how to implement the new life member "rule of 80". It was decided that it should be up to the individual member to determine his eligibility and apply.

10. New Business

European Loran-C Policy Group

Kjell Enerstadt reported that the British decision to go with Decca instead of Loran-C has definitely changed the loran climate in Europe. A meeting of the Policy Group is scheduled for 31 October, at which time the future direction of the loran program may be determined.

Loran Charts

Bill Mooney raised the problem that marine charts with loran information on them do not provide sufficient information. Specifically, the proper secondaries to use in a given area. He suggested that this information be included on the charts. He also criticized some of the Coast Guard's special charts for not giving the correct secondary selection information, particularly in the Florida area. He also suggested a WGA Speakers Bureau, with experts in various aspects of loran available to make presentations at gatherings of user groups.

11. Next Meeting

The date of the next meeting was set for October 3, 1991, at 7:00 am, at the same location.

12. Adjournment

The meeting was adjourned at 6:38 pm.

WILD GOOSE ASSOCIATION

MEMORANDUM

Date:

August 28, 1991

From:

Jim Culbertson, President Juliation

To:

All Directors & Committee Chairmen

Subi:

Submission of Reports and Agenda items for 98th Board meeting

Please submit all Officer and Committee Chairmen reports to reach the Secretary, care of Dave Scull at NavCom Systems, not later than 16 September 1991. Also submit any comments or new business items for the agenda at the same time.

Wild Goose Association c/o NavCom Systems, Inc. 7203 Gateway Court Manassas, VA 22110 Phone: (703) 361-0884

We have a LOT of business to cover during the Board meeting that begins at 4:00 PM (1600) on Monday, 30 September 1991. Each Committee Chairman should be heard from and we have to review certain annual information which will be brought before the General Meeting of the membership on Wednesday, 2 October 1991 (0815).

There have not been very many reports submitted for the previous Board meetings and I appeal to you all to submit something that summarizes the activities of your committees this year.

Also included with this memo is a draft agenda for the General Meeting. There is less than one hour reserved for this meeting and I believe we should have time allocated for questions and responses from the membership. We are limited, therefore, as to how much we can present. If any Director feels there is something we have missed, that should be presented, please include this with your comments.

Dave Scull will duplicate reports received and will mail a package to each Director by 20 September 1991. Any Director who misses this mailing due to travel, etc., should pick up a set from Dave Scull upon arrival in Williamsburg. Each Director should read the reports before the Board meeting as we will not be taking Board time to review them - only to approve and discuss as appropriate. Please bring your copies of the reports to the Board meeting - only limited copies will be available and they will not be mailed with the Minutes of the meeting.

Dave Scull is very busy handling most of the arrangements for the upcoming Symposium, so I request that you please submit your reports in a timely manner. Dave will not have the time to phone around asking for them.

Encl: Agenda for 98th Board of Directors meeting Agenda for the General Membership Meeting

Wild Goose Association

98th Meeting of the Board of Directors September 30, 1991 - Williamsburg, VA

Agenda

Date:

Monday, 30th September 1991

Time: Location:

4:00 PM (1600)

Fort Magruder Inn Williamsburg, VA

Location to be announced.

1.	Call to Order.	Culbertson
2.	 Attendance, proxies and statement of quorum 	Dean
3.	 Adoption of Minutes for the 96th Board meeting Adoption of Minutes for the 97th Board meeting 	Board Board
4 .	Secretary's Report	Dean
5.	Treasurer's Report	Andren
√ 6.	Executive Committee Report	Culbertson
1 7.	Operations manager's report	Scull
8.	Standing Committee Reports: Audit Awards Constituion Conventions: 1990 1991 1992 1993 Wal Cont? Historical Journal Loran Technologies/Applications Membership Newsletter	? Frank VanEtten Alexander Jackson Beukers ? Dean Beukers Amos Dean Lilley

	Nominations and Elections	VanEtten
9.	Special Committee Reports: Government Liaison	
	International Liaison	Moroney
1.	AALA Liaison	McGann
7.	User Liaison	Enerstad
	Loran Businesses Liaison	Hensel
	RTCA Liaison	Morgenthaler
	JOA Liaison next meet Netherlands.	Dean
	WARC Liaison	Olsen
	FRP Review weeks work -	Arnstein
	Comment deadline	Serrell
10.	Old Business:	teb-1.
	a. Tax information from 1990 Convention	-
	b. Director's Newsletter	Andren
	c. Reprinting of Const. & By-Laws	Beukers
	or const. & By-Laws.	Scull
11.	Next meeting place and time	Lilley
12.	Adjourn Thurs 0900	
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		Jose C ser man fer
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WILD GOOSE ASSOCIATION

General Membership Meeting

0815 Wednesday, October 2, 1991

AGENDA

CALL TO ORDER & WELCOME

Culbertson

SECRETARY'S REPORT

Dean

TREASURER'S REPORT

Andren

MEMBERSHIP REPORT

Dean

PRESIDENT-ELECT REMARKS

Lilley

OPEN FORUM - Member comments & questions

ectors

.....PresidentVice PresidentSecretary ·Treasurer _nPast President eukers Exec. Administrator ر. Alexander J H. Amos al O. Enerstad ruce E. Hensel Robert W. Lilley Henry E. Marx Edward L. McGann Mark P. Morgenthaler Maurice J. Moroney William L. Polhemus James P. Van Etten

Wild Goose Association



The International Loran Radionavigation Forum

Executive Committee Report 30 September 1991

Executive Committee activity was limited during this period. Several letters were answered to wit:

Response to Mr. Denisov, Soviet Interradionavigation Committee with respect to location for 1993 WGA Technical Symposium. Draft was circulated for comment at last Board meeting.

Responded to the U.S. Coast Guard regarding the proposed closing down of the CENPAC Loran-C Chain (Hawaii). Dave Scull has copies for distribution to Board.

Response to Fayez Ibn Ibrahim Badr, PhD, Ports Authority, Kingdom of Saudi Arabia concerning Loran-C in Desert Storm.

Response to Allen P. Villeneuve, Ontario, Canada regarding use of Loran-C in terrestrial applications.

Response to CAPT Bill Brogdon, USCG (ret) on GPS World article that discusses Loran-C.

Response to Aviator, Doru Varian, Bucharest, Romania providing information on WGA and forthcoming Technical Symposium.

Provided guidance to Dave Scull on responding to one user's complaints about Raytheon 580 Loran. Suggested that the material be simply forwarded to appropriate office in Raytheon for their information without WGA making any comments otherwise.

A letter was sent to the U.S. Coast Guard, contracting office (Mr. Manko) taking exception to the omission of Loran-C as one of the possible radio navigation systems

pecified in the RFP for the Valdez, Alaska Vessel Traffic System. This letter was suppose to have been circulated to the Board at the last meeting but may not have made it around. It was included in package with Minutes sent following the meeting.

Pursuant to the Minutes of the last (97th) Board meeting, Mr. Andrew Serrell was contacted regarding the FRP Review Committee. He indicated he had looked over the FRP but had received no inputs from his committee members. These members were contacted by the Chairman and their reports were requested ASAP. Mr Serrell has been requested to prepare a draft report for the next Board meeting in Williamsburg. Background material and copies of WGA's previous reports were sent to Mr. Serrell.

The outgoing Chairman of this Committee encourages the Board of Directors to make full use of this committee in conducting the general business of WGA. Although our business operations are again consolidated (at NavCom systems), we cannot expect Dave Scull, or anyone else managing these operations, to function as Secretary and perform all the duties that were done by John and Marilyn Beukers working full time!

Much of work John and Marilyn were doing has to be distributed among the Directors and Committees. This includes responding to correspondence we receive and preparing WGA reports and other documentation.

One way to approach this would be for the Executive Committee to serve as the clearing house for certain activities and be authorized by the Board to direct action to be taken by specific Directors and Committees. This could prevent delays in WGA responding to important issues and save time spent at meetings trying to handle these matters on the spot.

J.F. Culbertson

Chairman

98th BOD

WILD GOOSE ASSOCIATION

MEMORANDUM

Date:

August 28, 1991

From:

Jim Culbertson, President

To:

All Directors & Committee Chairmen

Subj:

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Encl: Agenda for 98th Board of Directors meeting Agenda for the General Membership Meeting



203/661-3176 FAX: 203/661-9613

354 West Putnam Avenue Greenwich, Conn. 06830

10 September 1991

To: Mr, Dave Scull

From: Capt. Henry E. Marx

Subject: Director's Report:

The enclosed "Letter to the Editor of the Goose Gazette" summarizes where the Marine User is today. All we are hearing from our customers - both commercial and recreational beaters - is: "How much has the price of GPS receiver come down"?

At the recent Newport Sailboat Show, I did not sell a single Loran C Operating Tape nor L/C Coordinates Directory. In the past both of these have been very big sellers.

I hope that the Board and the Membership will consider actively seeking the GPS Users etc. - for the future continuation of the Association.

Capt. Henry E. Marx



203/661-3176 FAX: 203/661-9613 354 West Putnam Avenue Greenwich, Conn. 06830

26 JULY 1991

LETTER TO THE EDITOR - The Goose Gazette:

It is becoming very apparent to me that the Marine Users of Electronic Navigation are fast losing interest in Loran C, and "are turning to the "new" G.P.S. Receivers.

By their own admission, the Loran C Manufacturers are focusing their R. & D. and Marketing Efforst on the G.P.S. Market and have downgraded their emphasis on their Loran C Products.

What does this mean to our Organization - The Wild Goose Association?

I am concerned that as our Manufacturers and Technical Members are forced by the Market Place to turn to G.P.S., and that as increasing Budget Constraints reduce the role of the U.S. Coast Guard in the W.G.A., that we will decline in membership, Financial Support, and in the Quantity and Quality of the Attendance and Papers at our Annual Symposium.

What can we do about this? I feel that if the W.G.A. were to expand it's horizons and invite into Membership, the G.P.S.

Manufacturers (Many of whom are already Members) and the User

Community - and become the International Electronic Navigation Forum - that we could infuse new blood, new ideas, and new technology into our Group and once again grow as an Organization.

Because I do not want our Organization to diminish as the International Forum and Watch Dog for the Navigating Community, I want to see it change with the times. Hopefully this letter will provoke a review of the goals and future of the Organization and encourage the membership to GET INVOLVED with the Challenge of the future.

Capt. Henry E. Marx

ILLGEN SIMULATION TECHNOLOGIES, INC.

Via Telefax: 011-44-(248)361429

September 11, 1991

Dr. David J. Last Reader, University of Wales, Bangor School of Electrical Engineering Science, Bangor Gwynedd LL57 1UT Wales

References:

(1) European WGA Symposium, Preliminary Programme, prepared by

J.D. Illgen, January 8, 1991

(2) 1992 European WGA Programme Comments, dated January 28.

1992, prepared by Dr. David Last

Dear David:

As promised I have reworked the 1992 WGA Programme, I have made the following changes:

- 1. Starting each day later (0900 instead of 0800).
- 2. First day is all tutorial.
- 3. Keynote speakers will start days 2 and 3. The first speaker of day 1 could also be considered a Keynote Speaker.
- 4. Regarding your comments on "Policy and Management Session," I agree on inviting Press day 2 PM (I also agree strongly that performance and use of the system must be included in this Overview/Management session).
- 5. I agree on as many European speakers as possible.

I have enclosed a three-day summary chart and revised Reference 1 (Appendix A) reflecting your excellent suggestions.

Please review and fax your changes (no comments this time - just changes) back to me by marking up the enclosures or adding new sheets. I want to have copies of a Preliminary Summary Programme for use at the convention (to disseminate to all members and for use at the Board meeting).

Your must admit I am an American who indeed compromises. Additionally, since I was educated in Denmark and born under the British Empire (Sydney, Australia) you can easily convince me to involve the European community.

On a serious note, I believe it would be timely to solicit a paper from the Russians.

John D. Illgen

Sincerely.

President/ČEO, ISTI

MI/sg Enclosure

Jim Culbertson, WGA President (fax); John Beukers; Dave Scull (fax) cc:

PRELIMINARY PROGRAMME

WILD GOOSE ASSOCIATION 1992 EUROPEAN SYMPOSIUM

THREE-DAY SYMPOSIUM SUMMARY

Tuesday

0900-1630, Loran-C Tutorials

- Overview
- Transmitting Equipment
- Coverage and GDOP
- Control Monitor Operation
- Luncheon Guest Speaker
- Loran-C Pulse Definition
- Receiver Technology
- Processing
- Displays
- EMC/EMI
- Atmospheric Noise
- Electromagnetic Propagation and Antenna Considerations
- Simulation and Test

Reception

*No Luncheon

Wednesday*

1300-1700, Policy and Management

- Keynote: Future Air Navigation Systems (FANS) and Eurocontrol
- Land Systems
- · Coastal/Riverway Navigation
- · Russian Plans
- Loran-C Air, Land, and Sea Experience in the USA

Reception and Banguet

Thursday

0900-1100, Panel Discussion

Keynote starts panel (~20 minutes)
 FANS and Eurocontrol Issues

Luncheon

1300-1615, Loran-C Interoperability

United States/Canadian Technical Chairman: John D. Illgen, Illgen Simulation Technologies • Telephone: (805)968-8661 • Facsimile: (805)968-1311

European Technical Chairman: Dr. David Last, University of Wales • Telephone: (0248)351151 • Facsimile: (0248)361429

APPENDIX A (Revised September 11, 1991)

Day 1, Loran Tutorial Sessions - All Day

0900 - 0945 Loran-C "An Overview" What is it? (tutorial) This tutorial should be directed at program managers and executives (decision makers)

- Transmitting equipment definitions (some strong emphasis on reliability)
- Control monitor (importance of minimizing temporal variations)
- Coverage (current and future)
- Receiver (processing, displays, and error)
- Loran-C pulse definitions (and measurements)
- Fix rate
- Fix dimension
- Accuracy (normal, repeatable, and differential modes)
- Capacity
- GDOP
- EMC/EMI
- Propagation (temporal and spatial) compensation techniques (such as differential Loran-C/grid calibration, etc.)
- Noise (atmospheric)
- Cost

Suggested time for the above is 45 minutes (speaker: one British speaker). Part of the above focus should be oriented toward removing Loran-C myths. For instance, "Oh, Loran-C only provides an accuracy within several miles" or "Oh, Loran is that World War II system that's outdated," or "Oh, satellites will resolve all accuracy considerations, be reliable, and cost a lot less than terrestrial systems that have not kept up with high technology, like Loran," or a real good one is "Space is where all the money should go." Yes, these are real quotes. These questions must be addressed at a more general level during the *Policy and Management Session*. I am not publishing the names in order to protect the guilty,

0945-1000 Break

Transmitting Equipment. This should provide a clear functional description of Loran-C transmitting equipment. Reliability and signal availability should be stressed here. Also, the fact that high technology is reflected in these transmitters should be emphasized. Time it requires to establish a Loran-C chain should be emphasized (i.e., implementation), portability.........Paul Johansen (Megapulse)

1045-1130 Coverage and GDOP (Geometric Dilution of Precision and Accuracy Definitions [normal repeatable and differential modes]). Describe how coverage is repre-

Paul is a U.S. citizen but to my knowledge his company is the only one in the world building Loran-Q transmitters.

, '	
	sented. Show examples that are of interest to land, air, and sea communities. Key equations and relationships should be carefully defined here Van Willigen
1130-1200	Control Monitor Operation - Tutorial. Describe placement of monitors (that is, site selection process), receiver requirements and operational, communications, and impact or accuracy
1200-1300	LUNCHEON This presentation should focus on the merits of Loran-C in Europe (European speaker preferably someone from France already using Loran-C).
1300-1345	Loran-C Pulse Definitions/Receiver Technology/Processing/Displays - Tutorial Functional description level definition of Loran-C receivers (using advanced digital processing techniques/hard limiter and linear versions). This is a natural place to define Loran-C pulse definitions in depth. Emphasis again should be placed on the high technology incorporated into Loran-C receivers, Loran-C pulse control, and Loran-C receiver sampling characteristics
1345-1400	Break
1400-1430	Loran-C Simulation (including interoperability with GPS)(I volunteer)
1430-1500	EMC/EMI (TBD) definitions, frequency interference (inter and intra), powerline effects, etc
1500-1515	Break
1515-1545	Atmospheric Noise Definitions (median noise values, European Speaker impulsive noise, receiver compensation techniques), impact on SNR and accuracy
1545-1630	Electromagnetic Propagation (Temporal and Spatial/include European Speaker skywaves and compensation techniques)
Day 2 PM Session	Policy and Management Session (except for one paper, these presentations should all be European speakers)
1300-1345	Future Air Navigation Systems (FANS)
1345-1430	Land SystemsTBD
1430-1445	Break
1445-1530	Coastal/Riverway Navigation/Position Location
1530-1615	Loran-C Air, Land, and Sea Experience in the USA. These two speakers (1 USCG and 1 FAA) must carefully coordinate their presentations from the USA. I will act as catalyst for this.
1615-1700	Russian Plans

	Day 3	Panel Discussions
٠.	0900-1100	FANS and Eurocontrol Issues (panel and chair to be determined from European and Russian sector). Technical, management, policy, and funding issues. Impact on air, coastal/sea, and land navigation
	1130-1300	Luncheon (European speaker who is prepared but can capture essence of morning panel sessions).
	Loran-C and	Interoperability Applications Session
	1300-1345	Airborne Applications
	1345-1430	Loran-C/GPS Interoperability
	1430-1445	Break
	1445-1530	Loran-C/GPS Interoperability Simulation
	1530-1615	David Last Suggestion

250 Storke Road, Suite #10 Goleta, CA 93117 FAX: 805/968-1311

*	VERIFY: 805/968-8661	
* • •	TO:	
	Q Jim Culbertson-301/392-988	3
	@ Nove Scull - 703/361-0535	
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	FROM:	
	John Illgen	
	DATE:	ļ.
•	9/11/91	
	FAX NUMBER:	
	301/392-9883	
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	MESSAGE:	

ard of Directors

Wild Goose Association



The International Loran Radionavigation Forum

Mr. Walter N. Dean Secretary, WGA 8060 Sacajawea Way Wilsonville, OR 97070

To: WGA Secretary, xc. D. Scull

From: R. Lilley, Chairman, Newsletter Committee

Date: September 16, 1991

Subj: Committee Report for 98th Board Meeting, Williamsburg, VA, October, 1991

1. Spring Issue, Goose Gazette

This issue went to press somewhat early, to insure that the membership gets the mailing before the convention. A "convention centerfold" was the high point, to try to attract some more attendees.

2. Follow-on:

I am convinced that the newsletter, suitably expanded, can be a significant WGA "product," and that it can serve some of the functions we have traditionally ascribed to committees on membership, promotion, user education, liaison, etc. I hope the Board will consider and comment on an expanded newsletter as a group effort, with quarterly columns contributed by members, with central editorship and publishing by our administrative office.

Please consider this item for addition to the Board agenda as new business. Thank you.

Souli Vice President Souli Vice President Or N. Dean Secretary Sarl S. Andren Treasurer Sohn D. Illgen Past President Sohn M. Beukers Exco. Administrator Sames O. Alexander David H. Amos Sjell O. Enerstad Bruce E. Hensel Sobert W. Lilley Henry E. Marx Edward L. McGann Mark P. Morsenthaler
Mark P. Morgenthaler
Naurice J. Moroney
Villiam L. Polhemus
ames P. Van Etten

Wild Goose Association



The International Loran Radionavigation Forum

July 15, 1991

Mr. Gus Gyllenhoff Communications & Electronics Specialist American Trucking Association 2200 Mill Road Alexandria, VA 22314

Dear Gus,

It was a pleasure speaking with you recently about the Wild Goose Association and the radionavigation needs of the trucking industry. I've enclosed a pamphlet that contains information on our annual technical symposium. As I mentioned, the WGA is trying to broaden the representation of LORAN-C users within the organization. We welcome you to attend the upcoming symposium and encourage you to join the WGA as a corporate or individual member.

A second thrust of the WGA's efforts is to increase the awareness of and participation in the federal radionavigation planning process within the user communities. The Federal Radionavigation Plan, revised biennially, is the official source of such policy and planning for the federal government. I've also enclosed a preliminary announcement of conferences that are being scheduled to solicit input for the 1992 plan.

Please feel free to call if you would like additional information on the Wild Goose Association, the Federal Radionavigation Plan, or any related topic. My telephone number is (616) 285-4396. Thanks

Sincerely,

Bruce Hensel

cc: Bill Tracy, ATA

Wild Goose Association, Inc. P.O. Box 556, Bedford, MA 01730, USA

Jard of Directors

acs F. Culbertson Prosiden	t
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Wild Goose Association



Radionavigation Forum

Date: September 16, 1991

From: Bruce Hensel

To: Walt Dean, WGA Secretary

Subj: WGA User Liaison Committee Report

This past quarter I sent letters to representatives of the American Trucking Association, National Private Truck Council, Federal Highway Administration, and IVHS America that discussed the purpose and activities of the WGA and the federal radionavigation planning process. A copy of a representative letter is attached to this report.

The proliferation of LORAN-C for land-mobile applications is uncertain. The land-mobile, LORAN-C user base was adversely affected this quarter by the demise of Geostar. Further, emerging land applications for radionavigation sensors, such as vehicle moving map displays and intelligent vehicle highway systems, favor the use of GPS.

The momentum gained by GPS this past year increases the importance of attracting LORAN-C users to the WGA. Representation of the interests of those users is an important role for the WGA to assume, especially for a mature technology such as LORAN-C. Unfortunately, I did not make any progress this past year in my stated intention to add LORAN-C users to the appropriate WGA database. Movement of the associations' computer hardware to NavCom Systems, Inc. made this difficult; however, this activity should now be pursued with the move complete.

I fully agree with observations and recommendations made in the past by Henry Marx. In order to attract more users to the WGA, the board must consider what value the organization can offer. At a minimum, I believe that more information that is pertinent to the users must be included in the Goose Gazette. Obviously, this will require work to put this together. In addition, Henry's suggestion to publicize the WGA via articles or advertisements should be pursued to reach a broad segment of the user community.

Although I don't have any specific proposals for the board to consider, I'ld like to generally discuss these topics as new business at the upcoming board meeting.

1 Druce

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MLCPAC LOG

"LOGISTICS IS OUR MIDDLE NAME"

Volume 2, Number 2

Maintenance and Logistics Command Pacific

Alameda, CA

May 1991

NORTHWEST PACIFIC LORAN-C TRANSMITTERS UPGRADED

- Barbara J. Lawless (tes)

An MLCPAC (t)-led electronics team has successfully completed a difficult and challenging engineering task. Obsolete Loran-C transmitting equipment in the Pacific has been upgraded in a major administrative and logistical effort stretching halfway around the world.

Deteriorating motor-driven power supplies in transmitters on Loran Stations Marcus Island and Iwo Jima, Japan, were replaced with solid state power supplies (SSPS). SSPS will ensure continued high reliability (99.9%) Loran operations. During the upgrades, both Loran stations continued to broadcast signals without interruption

"Replacing the old power supplies averted a likely catastrophic failure," said Project Manager CWO4 Burt Thomas of the Navigation Systems Section (tes-3). "The SSPS modification came none too soon. The old parts were crumbling in our hands as we removed them."

Thomas coordinated plans among 65 Coast Guard offices in 14 commands, plus two civilian firms. Within MLCPAC, tes, tb, fac, vpl, ESU-Alameda, ESU-Honolulu, and CEU-Honolulu participated in the SSPS Project.

Among those assisting were COMDT (G-TES), PacArea (Ptl), CGD Fourteen (oan), and FESEC. EECEN in Wildwood, N.J., supplied technical manuals. Supply Center Brooklyn contributed SSPS kits and spare parts. FESEC provided an installation crew. CEU Honolulu contracted to strengthen the transmitter building floor at Iwo Jima. Loran Stations Marcus Island and Iwo Jima crews contributed support ranging from physically moving equipment to providing meals at odd hours.

"No Hardware Stores"

Supplies were critical. "You can't go down to the corner hardware store for parts," said Thomas. Nearly 50,000

pounds of equipment were shipped from East and West coasts to Barbers Point, Hawaii, and Tokyo, Japan. A Coast Guard C-130 ferried supplies from Hawaii to Marcus Island and Iwo Jima. Log flights from Yokota Air Force Base, Japan, delivered other needed materials.

"Precision planning was necessary to be sure that they were all set for the job," said (tes-3) Section Chief LT Dan Larson. "The transmitters had to be gutted. Oodles of wires had to be pulled, rerouted, and checked."

Three Decades of Loran-C

Air and sea navigators rely upon Loran — LOng RAnge Navigation — to determine their location. A Loran—C chain issues a series of precisely timed, low-frequency, high-power radio pulses from a master station and a series of secondary stations.

The Northwest Pacific Loran-C Chain has been in continuous operation since 1963. The U. S. Air Force funded an upgrade of the Loran transmitters at Gesashi, Okinawa, and Hokkaido, Japan, as part of its Commando Lion project in 1979. A Loran station was built at Barrigada, Guam, to replace the one at Yap in 1987

Meanwhile, the original equipment at Iwo Jima and Marcus continued to suffer from the ravages of time and environment. Electronic technicians spent an inordinate amount of overtime keeping the 28-year-old transmitters on the air.

Island Workaholics

Last summer Thomas and a fact-finding team visited four Northwest Pacific Loran Stations. They conducted tests and took measurements at Iwo Jima and Marcus, comparing conditions with those at the modern Hokkaido and Gesashi transmitters.

Then in November 1990, Thomas, aided by crew members from FESEC,

LORMONSTA Yokota, a civilian contractor, and station personnel, spent 15 days on Marcus Island installing the first SSPS modification. The crew worked without a day off to upgrade the two Loran-C transmitters. On Thanksgiving, they enjoyed an excellent turkey dinner before returning to work, Thomas noted.

Temperatures often reached 100 degrees inside the transmitter building. To avoid the heat, Thomas and his eight-man, two-woman crew took afternoon breaks and worked at night.

In honor of the first women to work on the transmitters at Marcus, the transmitters were temporarily named "Jacqui" and "Sherri". Said Thomas, "The SSPS crew and I would challenge anyone to try to outwork ET3s Jacqui Neault and Sherri Wray."

The original transmitters were held together with the proverbial bubble gum and bailing wire. "We found one transmitter not long for this world and the other one in only slightly better shape," Thomas said.

In Ephysica 1001. Thomas set out

In February 1991, Thomas set out for the small volcanic island of Iwo Jima, scene of fierce fighting during World War II. An SSPS crew of eight men worked long hours for 15 days straight at Iwo Jima. Now another Loran Station in the Northwest Pacific sends vastly—improved signals to navigators.

Kudos

In a hearty "Well done," CAPT James J. Shaw, Commander of Far East Section (FESEC), Yokota Air Base, Japan, commended the SSPS installation team. "There is no doubt that this project ranks among those most difficult and challenging ever attempted within the Loran community," he said.

"I particularly commend CWO Burt Thomas," added CAPT Shaw. "His vision for SSPS and his perseverance to see it come to fruition in NWPAC were cornerstone to this project."



Joose Association ALANCE SHEET Sep 30,1991

ASSETS		LIABILITIES	
CURRENT ASSETS		CURRENT LIABILITIES	
Operating Account	30,281.98	Accounts Payable	0.00
Money Market	0.00	FIT Payable	0.00
Cenvention Temp Funds	0.00	SIT Payable	0.00
Bank C - Payroll	0.00	FICA Payable	0.00
Cash: Total	30,281.98	FUTA Payable	0.00
Accounts Receivable	0.00	SUTA Payable	0.00
Advances Receivable	0.00	SDI Payable	0.00
Inventory	0.00	Local Tax Payable	0.00
Office Equipment	1,478.70	Deduction A Payable	0.00
TOTAL CURRENT ASSETS	31,760.68	Deduction B Payable	0.00
TOTAL CORRENT NOOL.	·	Deduction C Payable	0.00
		Sales Tax Payable	0.00
TOTAL ASSETS	31,760.68	TOTAL CURRENT LIABILITIES	0.00
TOTAL AGGLIG			
		TOTAL LIABILITIES	0.00
		·•··	
		EQUITY	
		EARNINGS	
		Retained Earnings	26,153.44
		Current Earnings	5,607.24
		TOTAL EARNINGS	31,760.68
		TOTAL EQUITY	31,760.68
		LIABILITIES AND EQUITY	31,760.68

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Le AssociationLe Oct 1,1990 TO Sep 30,1991

REVENUE

EXPENSE

		INCOME	J,001.24
		TOTAL EXPENSE	33,876.44 5,607.24
			77 07/ //
		TOTAL ADMINISTRATION	33,876.44
	,	Document Expense	0.00
		Video Supplies	0.00
		Bank Service Charges	20.29
		Accounting Expense	750.00
		License/Permits	30.00
		Office Supplies	413.80
		Postage/Delivery	382.61
		Misc	0.00
		Convention Exp 1991	4,000.00
		Convention Exp 1990	394.40
		Convention Exp 1989	0.00
		Mid-continent Expense	1,505.44
TOTAL REVENUE	4. (Proceedings Expenses	99.00
TOTAL DEVENUE	39,483.68	Equipment Expenses	8,189.99
		SDI Expense	0.00
TOTAL REVENUE	2.1.222.00	SUTA Expense	0.00
Interest Earned	39,483.68	FUTA Expense	0.00
Donations	883.33_	FICA Expense	0.00
Newsletter Ads	0.00	Wages	0.00
Mid-continent Display Reg.	212.50	Freight Expense	549.40
Mid-continent Sponsor	325.00	Proceedings Expense	1,950.00
Mid-continent Registration	1,500.00	Journal Expenses	0.00
Journal Sales	2,080.00	Convention Expense	0.00
Business Cards	90.00	I A L A Liaison	976.04
Convention 1991	0.00	Awards Expenses	336.88
Convention 1990	0.00	Membership Expenses	60.00
Convention 1989	14,227.83	Election Expense	702.68
Video Sales	1,105.00 0.00	Congressional Expense	0.00
Proceedings	3,314.52	Newsletter Expenses	4,264.09
Bibliographies		Treasuer Expenses	0.00
Papers	60.00 32.50	V P Expenses Secretary Exp e nses	7,210.64
Dues - New Members	3,805.00	President Expenses	0.00
Dues Renewal	11,848.00	Contract Services	1,287.50 <i>7</i> 53.68
			1 297 50

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Jose Association JONE Jul 18,1991 TO Sep 30,1991

REVENUE		EXPENSE	
REVENUE		ADMINISTRATION	
Dues Renewal	275.00	Contract Services	1,287.50
Dues - New Members	480.00	President Expenses	205.41
Papers	20.00	V P Expenses	0.00
Bibliographies	0.00	Secretary Expenses	0.00
Proceedings	720.00	Treasuer Expenses	0.00
Video Sales	90.00	Newsletter Expenses	1,221.13
Convention 1989	0.00	Congressional Expense	0.00
Convention 1990	0.00	Election Expense	0.00
Convention 1991	0.00	Membership Expenses	0.00
Business Cards	0.00	Awards Expenses	0.00
Journal Sales	0.00	I A L A Liaison	0.00
Newsletter Ads	0.00	Convention Expense	0.00
Donations	0.00	Journal Expenses	0.00
Interest Earned	883.33	Proceedings Expense	0.00
TOTAL REVENUE	2,468.33	Freight Expense	- 0.00
		Wages	0.00
		FICA Expense	0.00
TOTAL REVENUE	2,468.33	FUTA Expense	0.00
		SUTA Expense	0.00
		\$DI Expense	0.00
		Equipment Expenses	0.00
		Proceedings Expenses	0.00
		Convention Exp 1989	0.00
		Convention Exp 1990	0.00
		Convention Exp 1991	0.00
		Misc	0.00
		Postage/Delivery	0.00
		Office Supplies	0.00
		License/Permits	0.00
		Accounting Expense	0.00
		Bank Service Charges	6.21
		Video Supplies	0.00
		Document Expense	0.00
		TOTAL ADMINISTRATION	2,720.25

TOTAL EXPENSE

INCOME

2,720.25

==========

251.92-

		debits	credits
105	Operating Account	30,281.98	-
106	Money Market	0.00	· _
108	Cenvention Temp Funds	0.00	-
110	Bank C - Payroll	0.00	-
120	Accounts Receivable	0.00	•
124	Advances Receivable	0.00	-
126	Inventory	0.00	•
130	Office Equipment	1,478.70	-
220	Accounts Payable	•	0.00
231	FIT Payable	-	0.00
232	SIT Payable	•	0.00
233	FICA Payable	-	0.00
234	FUTA Payable	-	0.00
235	SUTA Payable	-	0.00
236	SDI Payable	-	0.00
237	Local Tax Payable	-	0.00
240	Deduction A Payable	-	0.00
242	Deduction B Payable	-	0.00
244	Deduction C Payable	-	0.00
260	Sales Tax Payable		0.00
356	Retained Earnings	-	26,153.44
410	Dues Renewal	-	11,848.00
420	Dues - New Members		3,805.00
430	Papers		60.00
431	Bibliographies	•	32.50
432	Proceedings	-	3,314.52
433	Video Sales		1,105.00
440	Convention 1989	•	0.00
441	Convention 1990	-	14,227.83
442	Convention 1991	-	0.00
445	Business Cards	•	0.00
450	Journal Sales	•	90.00
455	Mid-continent Registration	-	2,080.00
456	Mid-continent Sponsor	-	1,500.00
457	Mid-continent Display Reg.	•	325.00
460	Newsletter Ads	-	212.50
480	Donations	-	0.00
490	Interest Earned	•	883.33
501	Contract Services	1,287.50	-
502	President Expenses	753.68	-
503	V P Expenses	0.00	•
504	Secretary Expenses	7,210.64	-
505	Treasuer Expenses	0.00	-
510	Newsletter Expenses	4,264.09	-
511	Congressional Expense	0.00	-
512	Election Expense	702.68	-
513	Membership Expenses	60.00	-
514	Awards Expenses	336.88	-
515	I A L A Liaison	976.04	-
516	Convention Expense	0.00	-
517		0.00	-
518	· _	1,950.00	-
טו כ	1.00000 man		

se Association BALANCE Sep 30,1991

		debits	credits
520	Freight Expense	549.40	-
	* '	0.00	-
530	Wages	0.00	
531	FICA Expense	0.00	-
532	FUTA Expense	0.00	
533	SUTA Expense	0.00	_
534	SDI Expense		_
540	Equipment Expenses	8,189.99	•
550	Proceedings Expenses	99.00	•
555	Mid-continent Expense	1,505.44	•
560	Convention Exp 1989	0.00	•
561	Convention Exp 1990	394.40	-
562	Convention Exp 1991	4,000.00	-
570	Misc	0.00	-
571	Postage/Delivery	382.61	-
572	Office Supplies	413.80	-
	• •	30.00	•
573	License/Permits	750.00	
574	Accounting Expense	20.29	-
575	Bank Service Charges	0.00	_
576	Video Supplies		
577	Document Expense	0.00	•
		65,637.12	65,637.12
		22222222222	2255522222

,	1,1990 TO Sep 30,1991					debit	credit
				debits	credits	balance	balance
105 Operat	ing Account					24,674.74	-
10-15-90	John M. Beukers	Ck 1316	J1	-	3,300.53	21,374.21	•
10-15-90	John M. Beukers	Ck 1317		•	752.09	20,622.12	-
10-18-90	Postmaster, Bedford Ma 01730	Ck 1318		-	14.00	20,608.12	-
	Dues, Proceedings & Papers	Cash	J4	455.00	-	21,063.12	-
10-18-90	Dues, Proceedings & Papers	Cash	J5	610.00	-	21,673.12	-
10-15-90	James F. Culbertson	Ck 1319		•	221.08	21,452.04	• -
	Dues, proceedings, video & Papers	Cash	J7	1,084.50	-	22,536.54	-
11-12-90 11-12-90	John M. Beukers	Ck 1320		•	461.80	22,074.74	-
	The Athens Messenger	Ck 1321		•	475.40	21,599.34	-
11-12-90	Robert L. Frank	Ck1322		•	336.88	21,262.46	-
12-12-90	David Scull		J11	-	2,000.00	19,262.46	-
12-12-90	Dues, Proceedings, Videos & Papers	Cash	J12	1,097.50		20,359.96	-
12-21-90	John M. Beukers	Ck 1324		.,	899.17	19,460.79	-
12-21-90	Omni Press	Ck 1325		-	700.00	18,760.79	-
12-21-90	Omni Press	Ck 1326		-	1,250.00	17,510.79	-
01-07-91		Ck 1327		-	160.67	17,350.12	-
01-18-91	John M. Beukers James F. Culbertson	Ck1328			160.67	17,189.45	-
01-23-91		Ck 1329			7,000.00	10,189.45	-
02-01-91	John M. Beukers		J19	•	1,180.32	9,009.13	-
02-04-91	The Athens Messenger	Cash	J20	212.50	.,	9,221.63	-
02-04-91	Newsletter Ad	Ck 1331			99.00	9,122.63	-
02-04-91	Omni Press	Cash	J22	2,928.00		12,050.63	-
02-05-91	Dues, Proceedings, Videos & Papers	Cash	J23	1,740.00		13,790.63	-
02-05-91	Dues & Proceedings	Ck 1332		-	297.11	13,493.52	-
02-05-91	John M. Beukers	Cash	J25	686.00	-	14,179.52	-
02-06-91	Dues & Videos	Bank Ad			7.08	14,172.44	-
02-11-91	Bank Charge	Cash	J27	1,085.00	•	15,257.44	
02-12-91	Dues Proceedings & Videos	Ck1333	J28	-	30.00	15,227.44	-
02-15-91	Robert Gould John M. Beukers	Ck1333	J29	_	606.78	14,620.66	÷
02-15-91	Dues, Video & Proceedings	Cash	J30	959.52	•	15,580.18	-
02-15-91		Ck 1335			554.16	15,026.02	-
03-25-91	John M. Beukers	Cash	J32	2,370.00		17,396.02	-
04-05-91	Dues & Proceedings	Cash	J33	260.00	•	17,656.02	-
	Dues & Proceedings	Cash	J34	595.00	-	18,251.02	-
04-05-91		Ck 1336			166.52	18,084.50	-
04-16-91	James F. Culbertson	Ck 1338		-	668.61	17,415.89	-
04-30-91	The Athens Messenger Commonwealth Of Massachusetts	Ck 1338			15.00	17,400.89	-
04-30-91		Ck 1339			15.00	17,385.89	-
04-30-91	Commonwealth Of Massachusetts	Ck 1340		•	21.45	17,364.44	-
04-30-91	Gene Brusin	Cash	J40	1,155.00	-	18,519-44	-
05-06-91	Dues	Cash	J41	452.50		18,971.94	-
05-06-91	Dues, Proceedings & Videos	Ck 1341		432.30	976.04	17,995.90	-
05-06-91	IALA Dues	Ck 1341		-	718.63	17,277.27	-
05-14-91	The Athens Messenger	ck 1342			270.21	17,007.06	-
05-14-91	John M. Beukers	Ck 1343		-	549.40	16,457.66	-
05-14-91	United Van Lines			•	7.00	16,450.66	-
05-14-91	Bank Charge	Bank St Ck 1345		_	702.68	15,747.98	-
05-14-91	James P. Van Etten			_	95.78	15,652.20	-
05-17-91	David C. Scull	Ck 1346		-	535.46	15,116.74	-
05-21-91	Rost Associates	Ck 1347		-	969.98	14,146.76	-
05-21-91	John M. Beukers	Ck 1348		-	58.00	14,088.76	-
05-21-91	Carl Andren	Ck 1349		55.00	-	14,143.76	-
05-21-91		Cash	J52			27,871-59	-
05-21-91	Convention Acct Closeout	Wire	J53	13,727.83		2. ,2	

ZR OCT	1,1770 10 000 30,1771					debit	credit
				debits	credits	balance	balance
						•••••	
05-29-91	David C. Scull	Ck 1350	J54	-	2,000.00	25,871.59	-
06-05-91	Mid-continent Dedication	Cash	J55	3,905.00	-	29,776.59	-
06-05-91	Dues, proceedings & Videos	Cash	J56	982.00	-	30,758.59	-
06-13-91	John M. Beukers	Ck 1351	J57	•	661.64	30,096.95	-
06-13-91	Rost Associates	Ck 1352		-	170.00	29,926.95	-
06-20 - 91	John M. Beukers	Ck 1353		-	60.00	29,866.95	-
06-21-91	John M. Beukers	Ck 1354		•	1,268.05	28,598.90	-
07-11-91	Linton, Shafer & Company PA	Ck 1355			<i>7</i> 50.00	27,848.90	-
07-11-91	Dues, Proceedings & Videos	Cash	J62	2,685.00	-	30,533.90	-
08-05-91	The Athens Messenger	Ck 1356		-	693.89	29,840.01	<u>.</u>
08-05-91	James F. Culbertson	Ck 1357		-	205.41	29,634.60	_
08-05-91	Bank Charge Canadian Checks	Bank	J65	•	6.21	29,628.39	_
08-08-91	McCarthy Enterprises, Inc	Ck 1358		-	1,287.50	28,340.89	_
08-23-91	Dues, Proceedings & Videos	Cash	J67	770.00	-	29,110.89 29,925.89	_
09-27-91	Dues, Proceedings & Videos	Cash	J68	815.00	F27 24	29,398.65	_
09-27-91	The Athens Messenger	Ck 1359		/07.00	527.24	29,805.65	-
09-27-91	Bank Interest FY 89	Bank	J70	407.00	<u>.</u>	30,281.98	-
09-27-91	Bank Interest FY90	Bank	J71	476.33	•	30,201.70	
				70 517 40	33,906.44		
				39,513.68	33,700.44	0.00	-
106 Honey F						0.00	-
	tion Temp Funds					0.00	-
	- Payroll					0.00	-
	ts Receivable					0.00	_
	es Receivable					0.00	-
126 Invento						1,478.70	-
	Equipment					-	0.00
	ts Payable					-	0.00
231 FIT Pay						-	0.00
232 SIT Pay						-	0.00
233 FICA Pa	-					-	0.00
234 FUTA Pa						-	0.00
235 SUTA PE						-	0.00
236 SDI Pay						-	0.00
	Tax Payable					-	0.00
	ion A Payable				•	-	0.00
	ion B Payable					-	0.00
	ion C Payable					-	0.00
	Tax Payable ed Earnings					-	26,153.44
						-	0.00
410 Dues Re 10-18-90	Dues, Proceedings & Papers	Cash	J4	-	210.00	-	210.00
10-18-90	Dues, Proceedings & Papers	Cash	J5	-	190.00	•	400.00
11-12-90	Dues, proceedings, video & Papers	Cash	J7	•	60.00	-	460.00
02-05-91	Dues, Proceedings, Videos & Papers	Cash	J22	•	1,808.00	-	2,268.00
02-05-91	Dues & Proceedings	Cash	J23	-	1,615.00	-	3,883.00
02-05-91	Dues & Videos	Cash	J25	-	555.00	•	4,438.00
02-06-91	Dues Proceedings & Videos	Cash	J27	•	965.00	-	5,403.00
02-12-91	Dues, Video & Proceedings	Cash	J30	•	190.00	-	5,593.00
04-05-91	Dues & Proceedings	Cash	J32	-	2,190.00	-	7,783.00
04-05-91	Dues & Proceedings	Cash	J33	-	160.00	-	7,943.00
	Dues, Proceedings & Video	Cash	J 3 4	•	390.00	-	8,333.00
04-05-91	Dues	Cash	J40	-	1,080.00	-	9,413.00
05-06-91	Dues, Proceedings & Videos	Cash	J41		70.00	-	9,483.00
05-06-91	Ducay 1 1 Ducantings a 1 . accor				-		

12-21-90 Dues, Proceedings, Videos & Papers Cash

ER Oct	1,1990 TO Sep 30,1991					debit	credit
				debits	credits	balance	balance
06-05-91	Dues, proceedings & Videos	Cash	J56	-	565.00	-	10,048.00
07-11-91	Dues, Proceedings & Videos	Cash	J62		1,525.00	_	11,573.00
08-23-91	Dues, Proceedings & Videos	Cash	J67	_	270.00	-	11,843.00
09-27-91	Dues, Proceedings & Videos	Cash	J68	-	5.00	-	11,848.00
				0.00	11,848.00		
420 Dues -	New Members			0.00	11,010.00	-	0.00
10-18-90	Dues, Proceedings & Papers	Cash	J4	•	225.00	-	225.00
10-18-90	Dues, Proceedings & Papers	Cash	J5	-	315.00	-	540.00
11-12-90	Dues, proceedings, video & Papers	Cash	J7	•	875.00	-	1,415.00
12-21-90	Dues, Proceedings, Videos & Papers	Cash	J12	-	420.00	-	1,835.00
02-05-91	Dues, Proceedings, Videos & Papers	Cash	J22	-	395.00	-	2,230.00
02-12-91	Dues Proceedings & Videos	Cash	J27	-	50.00	-	2,280.00
04-05-91	Dues, Proceedings & Video	Cash	J34	-	100.00	-	2,380.00
05-06-91	Dues	Cash	J40	-	75.00	-	2,455.00
05-06-91	Dues, Proceedings & Videos	Cash	J41	•	50.00	-	2,505.00
07-11-91	Dues, Proceedings & Videos	Cash	J62	•	820.00	-	3,325.00
08-23-91	Dues, Proceedings & Videos	Cash	J67	•	430.00	-	3,755.00
09-27-91	Dues, Proceedings & Videos	Cash	J68	-	50.00	-	3,805.00
				0.00	3,805.00		
				0.00	3,803.00	-	0.00
430 Papers			.,		20.00	_	20.00
10-18-90	Dues, Proceedings & Papers	Cash	J4	•	10.00	_	30.00
11-12-90	Dues,proceedings,video & Papers	Cash	J7	•	10.00	_	40.00
07-11-91	Dues, Proceedings & Videos	Cash	J62	_	20.00	-	60.00
08-23-91	Dues, Proceedings & Videos	Cash	J67				
				0.00	60.00		
431 Biblio	graphies						0.00
	Dues, Proceedings & Papers	Cash	J5	-	10.00	-	10.00
	Dues, Proceedings, Videos & Papers	Cash	J12	•	22.50	-	32.50
				0.00	32.50		
				0.00	32.30	-	0.00
432 Procee		Cash	J5		95.00	-	95.00
10-18-90	Dues, Proceedings & Papers		J7	-	95.00	-	190.00
11-12-90	Dues, proceedings, video & Papers	Cash	J12	-	435.00	-	625.00
12-21-90	Dues, Proceedings, Videos & Papers	Cash	J22	-	205.00	-	830.00
02-05-91	Dues, Proceedings, Videos & Papers	Cash	J23		125.00	-	955.00
02-05-91	Dues & Proceedings	Cash	J27	_	65.00	-	1,020.00
02-12-91	Dues Proceedings & Videos	Cash		_	724.52		1,744.52
02-15-91	Dues, Video & Proceedings	Cash	J32	•	180.00	_	1,924.52
04-05-91	Dues & Proceedings	Cash		_	100.00	-	2,024.52
04-05-91		Cash	J33	_	60.00	-	2,084.52
04-05-91	Dues, Proceedings & Video	Cash	J34	_	185.00	-	2,269.52
05-06-91		Cash	J41	_	200.00	-	2,469.52
06-05-91		Cash	J56	_	125.00	-	2,594.52
07-11-91		Cash	J62	_	50.00		2,644.52
08-23-91		Cash	J67	_	670.00	_	3,314.52
09-27-91	Dues, Proceedings & Videos	Cash	J68		5,0.00		•
				0.00	3,314.52		2.25
433 Video	Sales					-	0.00
	Dues, proceedings, video & Papers	Cash	J7	-	44.50	-	44.50
	Dues Proceedings, Videos & Papers	Cash	J12	-	130.00	•	174.50

381.75

10-25-90 James F. Culbertson

01-23-91 James F. Culbertson

debit credit debits credits balance hal ance - - - - **- - -**194 50 20.00 J22 02-05-91 Dues, Proceedings, Videos & Papers Cash 325.50 131.00 J25 Dues & Videos 02-06-91 330.50 5.00 J27 Dues Proceedings & Videos Cash 02-12-91 300.50 30.00 Ck1333 J28 Robert Gould 02-15-91 345.50 45.00 J30 Dues, Video & Proceedings Cash 02-15-91 390.50 45.00 Dues, Proceedings & Video Cash J34 04-05-91 538.00 147.50 .141 Cash 05-06-91 Dues, Proceedings & Videos 593.00 55.00 J52 Cash 05-21-91 Video 810.00 217.00 J56 Cash 06-05-91 Dues proceedings & Videos 205.00 1,015.00 J62 Dues, Proceedings & Videos Cash 07-11-91 1,105.00 90.00 Dues, Proceedings & Videos .168 09-27-91 Cash 30.00 1,135.00 0.00 440 Convention 1989 0.00 441 Convention 1990 500.00 500.00 02-05-91 Dues, Proceedings, Videos & Papers Cash J22 14,227.83 13,727.83 J53 05-21-91 Convention Acct Closeout Wire 0.00 14,227.83 0.00 442 Convention 1991 0.00 445 Business Cards 0.00 450 Journal Sales 90.00 90.00 12-21-90 Dues, Proceedings, Videos & Papers Cash J12 0..00 90.00 0.00 455 Mid-continent Registration 2,080.00 2,080.00 J55 06-05-91 Mid-continent Dedication Cash 0.00 2,080.00 0.00 456 Mid-continent Sponsor 1,500.00 1,500.00 .155 06-05-91 Mid-continent Dedication Cash 0.00 1,500.00 0.00 457 Mid-continent Display Reg. 325,00 325.00 J55 Cash 06-05-91 Mid-continent Dedication 0.00 325.00 0.00 460 Newsletter Ads 212.50 212.50 Cash J20 02-04-91 Newsletter Ad 0.00 212.50 0.00 480 Donations 0.00 490 Interest Earned 407.00 407.00 J70 Bank 09-27-91 Bank Interest FY 89 883.33 476.33 Bank 09-27-91 Bank Interest FY90 883.33 0.00 0.00 501 Contract Services 1,287.50 1,287.50 Ck 1358 J66 08-08-91 McCarthy Enterprises, Inc -----0.00 1,287.50 0.00 502 President Expenses 221.08 221.08 Ck 1319 J6

160.67

Ck1328 J17

ose Association
GER Oct 1,1990 TO Sep 30,1991

ER Oct 1,1990 TO Sep 30,1991				1.6.4	
		debits	credits	debit balance	credit balance
04-16-91 James F. Culbertson	Ck 1336 J35	166.52		548.27	-
08-05-91 James F. Culbertson	Ck 1357 J64	205.41	•	753.68	-
		753.68	0.00	0.00	-
503 V P Expenses				0.00	-
504 Secretary Expenses 10-15-90 John M. Beukers	Ck 1316 J1	3,300.53	•	3,300.53	-
10-15-90 John M. Beukers	ck 1317 J2	357.69	-	3,658.22	-
11-12-90 John M. Beukers	ck 1320 J8	461.80	•	4,120.02	-
12-21-90 John M. Beukers	Ck 1324 J13	899.17	-	5,019.19	-
01-18-91 John M. Beukers	Ck 1327 J16	160.67	-	5,179.86	-
02-05-91 John M. Beukers	Ck 1332 J24	297.11	-	5,476.97	-
02-15-91 John M. Beukers	Ck1334 J29	606.78	-	6,083.75	-
03-25-91 John M. Beukers	Ck 1335 J31	554.16	-	6,637.91	-
06-13-91 John M. Beukers	Ck 1351 J57	572 .73	•	7,210.64	•
		7,210.64	0.00	-	
505 Treasuer Expenses				0.00	-
510 Newsletter Expenses				0.00	
11-12-90 The Athens Messenger	Ck 1321 J9	475.40	-	475.40	-
02-04-91 The Athens Messenger	Ck1330 J19	1,180.32	•	1,655.72	-
04-30-91 The Athens Messenger	Ck 1338 J36	668.61	-	2,324.33	
05-14-91 The Athens Messenger	Ck 1342 J43	718.63	•	3,042.96 3,736.85	- -
08-05-91 The Athens Messenger	Ck 1356 J63	693.89	-	4,264.09	_
09-27-91 The Athens Messenger	Ck 1359 J69	527.24		4,204.07	
		4,264.09	0.00	0.00	_
511 Congressional Expense				0.00	_
512 Election Expense	01. 47/5 1/7	702.68		702.68	
05-14-91 James P. Van Etten	Ck 1345 J47				
		702.68	0.00	0.00	_
513 Membership Expenses		(0.00	_	0.00 60.00	- -
06-20-91 John M. Beukers	Ck 1353 J59	60.00		50.00	
		60.00	0.00		
514 Awards Expenses				0.00	-
12-12-90 Robert L. Frank	Ck1322 J10	336.88	•	336.88	-
		336.88	0.00		
515 IALALiaison				0.00 976.04	-
05-06-91 IALA Dues	Ck 1341 J42	976.04		776.04	
		976.04	0.00	0.00	-
516 Convention Expense				0.00	_
517 Journal Expenses				0.00	-
518 Proceedings Expense		700.00	_	700.00	-
12-21-90 Omni Press	. Ck 1325 J14	700.00	-	1,950.00	-
01-07-91 Omni Press	Ck 1326 J15	1,250.00			
		1,950.00	0.00		
		.,		0.00	-
520 Freight Expense 05-14-91 United Van Lines	Ck 1344 J45	549.40	-	549.40	-
•		549.40	0.00		

_uER Oct 1,1990 TO Sep 30,1991				4.6.5	
		debits	credits	debit balance	credit balance
				0.00	-
530 Wages				0.00	- ·
531 FICA Expense				0.00	_
532 FUTA Expense				0.00	-
533 SUTA Expense				0.00	-
534 SDI Expense				0.00	-
540 Equipment Expenses 02-01-91 John M. Beukers	Ck 1329 J18	7,000.00	-	7,000.00	-
06-21-91 John M. Beukers	Ck 1354 J60	1,189.99	•	8,189.99	-
U6-21-91 John M. Beukers	SK 155. 666			•	
		8,189.99	0.00		
550 Proceedings Expenses				0.00	~
02-04-91 Omni Press	ck 1331 J21	99.00	•	99.00	-
05-04-A1 OURIL LIES2	• • • • • • • • • • • • • • • • • • • •				
		99.00	0.00		
555 Mid-continent Expense				0.00	-
05-21-91 Rost Associates	Ck 1347 J49	535.46	-	535.46	-
05-21-91 John M. Beukers	Ck 1348 J50	969.98	-	1,505.44	-
os er vi com ne com					
•		1,505.44	0.00		
560 Convention Exp 1989				0.00	-
561 Convention Exp 1990				0.00	-
10-15-90 John M. Beukers	Ck 1317 J2	394.40	•	394.40	-
			• • • • • • • • • • • • • • • • • • • •		
		394.40	0.00		
562 Convention Exp 1991				0.00	-
12-12-90 David Scull	Ck1323 J11	2,000.00	•	2,000.00	-
05-29-91 David C. Scull	ck 1350 J54	2,000.00	-	4,000.00	-
		4,000.00	0.00	0.00	
570 Misc				0.00	-
571 Postage/Delivery				0.00	_
10-18-90 Postmaster, Bedford Ma 01730	Ck 1318 J3	14.00	•	14.00	_
04-30-91 Gene Brusin	Ck 1340 J39	21.45	-	35.45 235.70	_
05-14-91 John M. Beukers	Ck 1343 J44	200.25	-		_
05-21-91 Carl Andren	Ck 1349 J51	58.00	•	293.70 382.61	_
06-13-91 John M. Beukers	Ck 1351 J57	88.91	•	302.01	
		700 /4	0.00		
		382.61	0.00	0.00	_
572 Office Supplies	al 47/7 1//	40.04	_	69.96	-
05-14-91 John M. Beukers	Ck 1343 J44	69.96 95.78	•	165.74	_
05-17-91 David C. Scull	Ck 1346 J48		_	335.74	-
06-13-91 Rost Associates	Ck 1352 J58	170.00 78.06	_	413.80	_
06-21-91 John M. Beukers	Ck 1354 J60	70.00		.,	
		413.80	0.00		
		413.00	0.00	0.00	-
573 License/Permits	ru 1778 177	15.00	•	15.00	=
04-30-91 Commonwealth Of Massachusetts	Ck 1338 J37 Ck 1339 J38	15.00	-	30.00	-
04-30-91 Commonwealth Of Massachusetts	UK 1337 J30				
		30.00	0.00		
		20103		0.00	-
574 Accounting Expense	Ck 1355 J61	750.00	-	750.00	-
07-11-91 Linton, Shafer & Company PA	וסנ כנכו אט				
		750.00	0.00		
		,,,,,,	**		

_cose Association _cDGER Oct 1,1990 TO Sep 30,1991

·				debit	credit
		debits	credits	balance	balance
			•••••	• • • • • • • • • • • • • • • • • • • •	
575 Bank Service Charges				0.00	-
02-11-91 Bank Charge	Bank Ad J26	7.08	-	7.08	-
05-14-91 Bank Charge	Bank St J46	7.00	-	14.08	-
08-05-91 Bank Charge Canadian Checks	Bank J65	6.21	-	20.29	-
		20.29	0.00		
576 Video Supplies				0.00	-
577 Document Expense				0.00	-
AAA P.J 444					

					debits	credits
10-15-90 J1	John M. Beukers	Ck 1316	504	• •	3,300.53	-
			105	Operating Account	-	3,300.53
10-15-90 J2	John M. Beukers	Ck 1317	504	Secretary Expenses	357.69	-
			561	Convention Exp 1990	394.40	•
			105	Operating Account	•	752.09
10-18-90 J3	Postmaster, Bedford Ma 01730	Ck 1318	571	Postage/Delivery	14.00	-
			105	Operating Account	•	14.00
10-18-90 J4	Dues, Proceedings & Papers	Cash	410	Dues Renewal	-	210.00
			420	Dues - New Members	•	225.00
			430	Papers	•	20.00
			105	Operating Account	455.00	• .
10-18-90 J5	Dues, Proceedings & Papers	Cash	431	Bibliographies	•	10.00
			432	Proceedings	•	95.00
			410	Dues Renewal	-	190.00
			420	Dues - New Members	-	315.00
			105	Operating Account	610.00	•
40 25 00 14	James F. Culbertson	Ck 1319	502	President Expenses	221.08	-
10-25-90 J6	James F. Cutber (30)		105	Operating Account	-	221.08
11-12-90 J7	Dues,proceedings,video & Papers	Cash	410	Dues Renewal	•	60.00
11-12-90 J/	bues, proceedings, video a rapore		420	Dues - New Members	•	875.00
			432	Proceedings	-	95.00
			433	Video Sales	•	44.50
			430	Papers	•	10.00
			105	Operating Account	1,084.50	-
11-12-90 J8	John M. Beukers	Ck 1320	504	Secretary Expenses	461.80	•
11-12-70 00	John III Zeaker 2		105	Operating Account	-	461.80
11-12-90 J9	The Athens Messenger	Ck 1321	510	Newsletter Expenses	475.40	•
11 12 70 07			105	Operating Account	•	475.40
12-12-90 J10	Robert L. Frank	Ck1322	514	Awards Expenses	336.88	-
12 12 70 010			105	Operating Account	-	336.88
12-12-90 J11	David Scull	Ck1323	562	Convention Exp 1991	2,000-00	•
12 12 70 011			105	Operating Account	-	2,000.00
12-21-90 J12	Dues, Proceedings, Videos & Papers	Cash	420	Dues - New Members	-	420.00
12 21 70 012	, , , , , , , , , , , , , , , , , , ,		431	Bibliographies	-	22.50
			432	Proceedings	-	435.00
			450	Journal Sales	•	90.00
			433	Video Sales	•	130.00
			105	Operating Account	1,097.50	-
40.04.00.117	Isha M. Boukore	Ck 1324	504	Secretary Expenses	899.17	-
12-21-90 J13	John M. Beukers	·- - ·	105	Operating Account	-	899.17

					debits	credits
12-21-90 J14	Omni Press	Ck 1325	518	Proceedings Expense	700.00	
12-21-70 314	WHITE TEST		105	Operating Account	•	700.00
01-07-91 J15	Omni Press	Ck 1326	518	Proceedings Expense	1,250.00	÷
• • • • • • • • • • • • • • • • • • • •	•		105	Operating Account	-	1,250.00
01-18-91 J16	John M. Beukers	Ck 1327	504	Secretary Expenses	160.67	•
			105	Operating Account	•	160.67
01-23-91 J17	James F. Cuibertson	Ck1328	502	President Expenses	160.67	-
			105	Operating Account	-	160.67
02-01-91 J18	John M. Beukers	Ck 1329	540	Equipment Expenses	7,000.00	-
			105	Operating Account	•	7,000.00
02-04-91 J19	The Athens Messenger	Ck1330	510	Newsletter Expenses	1,180.32	•
			105	Operating Account	-	1,180.32
02-04-91 J20	Newsletter Ad	Cash	460	Newsletter Ads	-	212.50
••••			105	Operating Account	212.50	• *
02-04-91 J21	Omni Press	Ck 1331	550	Proceedings Expenses	99.00	•
			105	Operating Account	-	99.00
02-05 - 91 J22	Dues, Proceedings, Videos & Papers	Cash	410	Dues Renewal	-	1,808.00
40 35 11 5 ==	•		420	Dues - New Members	•	395.00
			432	Proceedings	•	205.00 20.00
			433	Video Sales	•	500.00
			441 105	Convention 1990 Operating Account	2,928.00	
				,	_	1,615.00
02-05-91 J23	Dues & Proceedings		410	Dues Renewal	_	125.00
			432 105	Proceedings Operating Account	1,740.00	-
		ol. 1773	E0/	Secretary Expenses	297.11	-
02-05-91 J24	John M. Beukers		105	Operating Account	-	297.11
		Cook	410	Dues Renewal	-	555.00
02-06-91 J25	Dues & Videos	=	433	Video Sales	· -	131.00
			105	Operating Account	686.00	-
	David Channe	Bank Ad	575	Bank Service Charges	7.08	-
02-11-91 J 2 6	Bank Charge		105	Operating Account	•	7.08
	Dues Proceedings & Videos	Cash	410	Dues Renewat	•	965.00
02-12-91 J27	pues proceedings a videos		420	Dues - New Members	•	50.00
			432	Proceedings	-	65.00
	•		433	Video Sales	4 005 00	5.00
			105	Operating Account	1,085.00	-
	B-Lant Could	Ck1333	433	Video Sales	30.00	•
02-15-91 J28	Robert Gould	51555	105		-	30.00

					debits	credits
02-15-91 J29	John M. Beukers	Ck1334	504	Secretary Expenses	606.78	
02 13 71 027	Committee Doubles		105	Operating Account	•	606.78
02-15-91 J30	Dues, Video & Proceedings	Cash	410	Dues Renewal	•	190.00
02 13 71 030	5400, 11400 4 11 33334		433	Video Sales	•	45.00
			432	Proceedings	•	724.52
			105	Operating Account	959.52	•
03-25-91 J 31	John M. Beukers	Ck 1335	504	Secretary Expenses	554.16	•
			105	Operating Account	-	554.16
04-05-91 J32	Dues & Proceedings	Cash	410	Dues Renewal	-	2,190.00
			432	Proceedings	-	180.00
			105	Operating Account	2,370.00	-
04-05-91 J33	Dues & Proceedings	Cash	410	Dues Renewal	•	160.00
			432	Proceedings	•	100.00
			105	Operating Account	260.00	-
04-05-91 J34	Dues, Proceedings & Video	Cash	410	Dues Renewal	-	390.00
			420	Dues - New Members	•	100.00
			432	Proceedings	-	60.00
			433	Video Sales	-	45.00
			105	Operating Account	595.00	-
04-16-91 J35	James F. Culbertson	Ck 1336	502	President Expenses	166.52	-
04 10 71 033			105	Operating Account	-	166.52
04-30-91 J36	The Athens Messenger	Ck 1338	510	Newsletter Expenses	668.61	-
04 30 71 830	THE MEHONE HOUSENGER		105	Operating Account	•	668.61
04-30-91 J37	Commonwealth Of Massachusetts	Ck 1338	573	License/Permits	15.00	-
04 30 71 03.			105	Operating Account	•	15.00
04-30-91 J38	Commonwealth Of Massachusetts	Ck 1339	573	License/Permits	15.00	
04 30 71 030		4	105	Operating Account	-	15.00
04-30-91 J39	Gene Brusin	Ck 1340	571	Postage/Delivery	21.45	<u>:</u>
04 30 71 007			105	Operating Account	•	21.45
05-06-91 J40	Dues	Cash	410	Dues Renewal	•	1,080.00
03 00 71 040			420	Dues - New Members		75.00
			105	Operating Account	1,155.00	-
05-06-91 J41	Dues,Proceedings & Videos	Cash	410	Dues Renewal	-	70.00
05 00 71 041	5455 , 155554415		420	Dues - New Members	-	50.00
			432		-	185.00 147.50
			433	Video Sales	.52 50	147.50
			105	Operating Account	452.50	
	TALA Dura	Ck 1341	515	I A L A Liaison	976.04	-
05-06-91 J42	IALA Dues	3 =	105		-	976.04
	The Ashana Maraangan	ck 1342	510	Newsletter Expenses	718.63	· -
05-14-91 J43	The Athens Messenger .	JK .572		·		

105 Operating Account - 718.63					debits	credits
S72 Office Supplies 69.96			105	Operating Account	-	718.63
177 177	N5-14-91 J44	John M. Beukers	Ck 1343 571	Postage/Delivery	200.25	-
105 Operating Account - 270.21	05 14 71 844		572		69.96	-
105 105 107 108			105		-	270.21
105 14-91 146 Bank Charge Bank St 575 Bank Service Charges 7.00 7.00	05-14-91 J45	United Van Lines	Ck 1344 520	Freight Expense	549.40	-
105 Operating Account - 7.00			105	Operating Account	-	549.40
105-14-91 J47 James P. Van Etten Ck 1345 512 Election Expense 702.68 702.68 105 Operating Account - 702.68 702.68 105 Operating Account - 702.68 - 702.68 105 Operating Account - 705.78	05-14-91 J46	Bank Charge			7.00	-
105 Operating Account 702.68			105	Operating Account	•	7.00
105-17-91 J48 David C. Scutt Ck 1346 572 Office Supplies 95.78 95.78	05-14-91 J47	James P. Van Etten			702.68	702 (8
105 Operating Account 95,78			105	Operating Account	•	702.08
105	05-17-91 J48	David C. Scull			95.78	-
105 Operating Account -			105	Operating Account	-	95.78
05-21-91 J50 John M. Beukers Ck 1348 555 Mid-continent Expense 969-98 - 969-98	05-21-91 J49	Rost Associates	= '		535.46	-
105 Operating Account - 969,98			105	Operating Account	-	555.40
05-21-91 J51 Carl Andren Ck 1349 571 Postage/Delivery 58.00	05-21-91 J50	John M. Beukers			969.98	- 040.00
105 Operating Account - 58.00			105	Operating Account	-	909.90
105 21-91 152 152 152 153 154 155 15	05-21-91 J51	Carl Andren	Ck 1349 571		58.00	
105-21-91 J52			105	Operating Account	-	58.00
13,727.83	05-21-91 J52	Video	Cash 433		-	55.00
105 Operating Account 13,727.83 105 Operating Account 15,000.00 105 Operating Account 15,000.00 105 Operating Account 15,000.00 105 Operating Account 105 Operatin			105	Operating Account	55.00	-
David C. Scull Ck 1350 562 Convention Exp 1991 2,000.00 - 2,000.00	05-21-91 J53	Convention Acct Closeout	Wire 441			13,727.83
105 Operating Account - 2,000.00 06-05-91 J55 Mid-continent Dedication			105	Operating Account	13,727.83	-
06-05-91 J55 Mid-continent Dedication Cash 455 Mid-continent Registration - 2,080.00	05-29-91 J54	David C. Scull			2,000.00	-
1,500.00			105	Operating Account	-	2,000.00
457 Mid-continent Display Reg. - 325.00 105 Operating Account 3,905.00 -	06-05-91 J55	Mid-continent Dedication			•	
105 Operating Account 3,905.00 -					-	
06-05-91 J56 Dues, proceedings & Videos Cash 410 Dues Renewal - 565.00 432 Proceedings - 200.00 433 Video Sales - 217.00 Operating Account 982.00 - O6-13-91 J57 John M. Beukers Ck 1351 571 Postage/Delivery 88.91 - 504 Secretary Expenses 572.73 - 105 Operating Account - 661.64 O6-13-91 J58 Rost Associates Ck 1352 572 Office Supplies 170.00 - 170.00				·	- 7 00E 00	323.00
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433 Video Sales - 217.00	06-03-41 130	bues, proceedings a viacos	432	Proceedings	•	200.00
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06-13-91 J57 John M. Beukers 504 Secretary Expenses 572.73 - 661.64 06-13-91 J58 Rost Associates Ck 1352 572 Office Supplies 170.00 - 105 Operating Account - 170.00			105	Operating Account	982.00	-
504 Secretary Expenses 572.73 105 Operating Account - 661.64 06-13-91 J58 Rost Associates Ck 1352 572 Office Supplies 170.00 - 170.00 00-13-91 J58 Rost Associates 00-13-91 J58 Rost Associates 170.00 - 170.00	06-13-01 157	John M. Beukers	Ck 1351 571	Postage/Delivery		-
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06-13-91 J58 Rost Associates			105	Operating Account	-	661.64
105 Operating Account - 170.00	06.17.01 ISR	Rost Associates	Ck 1352 572	Office Supplies	170.00	
06-20-91 J59 John M. Beukers Ck 1353 513 Membership Expenses 60.00 -	00-13-61-00		105	Operating Account	-	170.00
	06-20-91 J59	John M. Beukers	Ck 1353 513	Membership Expenses	60.00	-

					debits	credits
			105	Operating Account	-	60.00
06-21-91 J60	John M. Beukers	Ck 1354	540	Equipment Expenses	1,189.99	. .
08-21-91 300	JOHN M. BEUKEIS		572	Office Supplies	78.06	-
			105	Operating Account	-	1,268.05
07-11-91 J61	Linton, Shafer & Company PA	Ck 1355	574	Accounting Expense	750.00	-
			105	Operating Account	•	750.00
07-11-91 J62	Dues, Proceedings & Videos	Cash	410	Dues Renewal	-	1,525.00
07-11-71 302	bacs, recoccanige a course		420	Dues - New Members	•	820.00
			105	Operating Account	2,685.00	-
			433	Video Sales	•	205.00
			432	Proceedings	•	125.00
			430	Papers	•	10.00
08-05-91 J63	The Athens Messenger	Ck 1356	510	Newsletter Expenses	693.89	-
00 03 71 003			105	Operating Account	-	693.89
08-05-91 J64	James F. Culbertson	Ck 1357	502	President Expenses	205.41	
			105	Operating Account	-	205.41
08-05-91 J65	Bank Charge Canadian Checks	Bank	575	Bank Service Charges	6.21	
			105	Operating Account	-	6.21
08-08-91 J66	McCarthy Enterprises, Inc	Ck 1358	501	Contract Services	1,287.50	-
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		105	Operating Account	-	1,287.50
08-23-91 J67	Dues, Proceedings & Videos	Cash	410	Dues Renewal	-	270.00
00 23 71 001	5450, 1, 5555 and 5		420	Dues - New Members	•	430.00
			432	Proceedings	•	50.00
			430	Papers	•	20.00
			105	Operating Account	770.00	-
09-27-91 J68	Dues, Proceedings & Videos	Cash	410	Dues Renewal	-	5.00
09-21-91 300	bucs, Trouceamigo - Transcr		420	Dues - New Members	•	50.00
			432	Proceedings	-	670.00
			433	Video Sales	-	90.00
			105	Operating Account	815.00	-
09-27-91 J69	The Athens Messenger	Ck 1359	510	Newsletter Expenses	527.24	-
09-26-91 Jos	The Athens Messenger		105	Operating Account	-	527.24
09-27-91 J70	Bank Interest FY 89	Bank	490	Interest Earned	-	407.00
	Bullet Little Cox 11 47		105	Operating Account	407.00	-
09-27-91 J71	Bank Interest FY90	Bank	490			476.33
	waith attended in the		105	Operating Account	476.33	
					73,420.12	73,420.12

and of Directors



Wild Goose Association



The International Loran Radionavigation Forum

2 October 1991

Commandant U.S. Coast Guard 2100 2nd Street S.W. Washington, D.C. 20593-0001

Dear Admiral Kime:

As one of my final acts as President of the Wild Goose Association, I wish to report to you the results of our recent Technical Symposium held in Williamsburg, Virginia and express my appreciation for the participation and contributions made by the U.S. Coast Guard.

As our first day's luncheon speaker, Rear Admiral Ecker delivered an excellent presentation on the Office of Navigation's role in national and international radionavigation. Additionally he presented a very informative picture of the Coast Guard's current operations and the outlook for the future. A number of conference attendees remarked on their better understanding and appreciation for the vastness of Coast Guard programs. In my opinion, RADM Ecker delivered one of the best talks I have ever heard by a Coast Guard Flag Officer - and he has been in his present job for less than a month!

Our conference was attended by engineers, scientists, educators, students, and professionals from every segment of the radionavigation community. We had several overseas attendees including Mr. Mathews of the International Association of Lighthouse Authorities (IALA). Unfortunately, the large Soviet delegation expected at the Symposium ran into some difficulties obtaining visas and could not repeat their attendance to deliver two papers or engage in the forum.

Technical papers covered the entire spectrum of radionavigation issues from the applications of Loran-C in marine, aviation and land, through the interoperability of loran with the Global Positioning System (GPS). The current status of the Northwest European Loran-C expansion was a major topic of discussion as was the impact of a recent turn-around decision by the U.K. Ministry of Transport regarding the UK's intentions to retain the decca system.

I particularly want to commend the Coast Guard for the excellent and invaluable interaction and participation by its Symposium attendees. By having the Loran-C Regional Manager's Conference just before the technical sessions began, Coast Guard personnel directly responsible for the operation and management of Loran-C benefited directly from the technical material presented in WGA Symposium papers and the subsequent discussions they had with the leading loran scientists and engineers of the world. Having, not too long ago, been in the position of having to keep Coast Guard field personnel abreast of the loran technology affecting Loran-C operations and maintenance,

2 October 1991 Commandant Page 2.

I believe the attendance of your key personnel at our Symposium has cost effectively served to achieve this purpose.

I need to comment on the impressions that our overseas delegates bring with them regarding the U.S. Coast Guard. Loran-C as you know is undergoing continuing expansion worldwide. Several nations have adopted Loran-C as their national radionavigation system including the Soviets. Overseas attendees to our Symposium have traditionally arrived looking to the Coast Guard for technical guidance and other assistance in planning their own systems.

I do not believe this impression by the foreign loran community will soon fade. As the U.S. and the rest of the world moves toward interoperability between loran and space radionavigation systems, the international community will continue to look to the U.S. Coast Guard for guidance. This year's attendance by the Coast Guard to our Symposium reaffirmed this support. Considerable invaluable information was exchanged and guidance was provided to the international radionavigation community at a time critical to those in Europe and elsewhere striving to realize cost effective and reliable radio navigation.

Please be assured that the participation of the Coast Guard personnel at this years's WGA Technical Symposium had a most positive effect and I personally was proud of their performance and conduct.

I wish you well as you start your second year as Commandant and assure you that the Wild Goose Association will continue to provide the high level of support we have provided in the past.

Sincerely,

Jim

J.F. Culbertson

President

JFC:skc USCG1091