



Directors' Newsletter

From the Secretary

March 1, 1990

Winter Ramblings

By John Beukers

If this column were being written a couple of weeks ago the title would have been a misnomer - on the East Coast we were basking in record-breaking, late spring weather (after a record breaking cold December). Today we are back in the deep freeze with a landscape of winter beauty. Perhaps you heard of the killer/ destructive storms in northern Europe. My daughter reports that it was all but impossible to drive on the autobahn in Germany, and my son reports from England that 300 and 400 year old trees were decimated. He also reports daffodils blooming in mid-February resulting from the mildest winter on record. And what of the bizarre weather in the southern U.S. What's happening? Perhaps there is a simple engineering explanation to the bewildering puzzle. The atmospheric scientists tend to focus on Global Warming and look for the integral of global temperature change measured in fractions of a degree Celsius. Looking at it from another perspective, it took billions of years for the planet's interactive weather machine to reach a delicate and sensitive equilibrium. In just 100 years the human race has materially effected this balance. In engineering terms a highly complex set of intricate feedback mechanisms has received a nanosecond impulse sending disturbances rippling throughout the system. Perhaps we should focus on the derivatives, they provide the precursor of the future - a power spectral analysis would tell us where all the energy lies. Frightening? It should be!

Back in the Ioran world much is happening. The President's message speaks for itself. We have attempted to bring to your attention the important and timely matters that go through this office.

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Notes from the President

By Jim Culbertson

BOARD MEETING BUSINESS:

We continue to labor at Board meetings trying to address properly all the business that comes up. Both John Illgen and I have tried to shorten the formal part of the meetings by having the Standing and Special Committee Reports into the hands of the Directors before the meeting. I have tried to go one step further by moving toward quick approval of them unless there is objection. Still, we were racing near the end of the January Board meeting in San Diego and important business did not get the full attention of the Board. Several Directors have expressed their frustration regarding this process and some have observed the Board starting to run out of gas after so long around the table! I believe it is time for drastic change!

The Board meeting is for the Directors, and they decide how THEIR meeting is to be conducted - the President simply chairs the process. I have the following suggestions and unless I hear serious objections, I propose the following:

1. Continue the procedure of receiving ALL Committee Reports in time to send out to the Directors with the preliminary agenda. Individual Directors should resolve any questions they have through discussions directly with the author, or accountable Director, before the Board meeting. During the Board meeting I will call for BLANKET approval of all committee reports previously provided to the Directors, of course stopping to discuss if any Director has objection. The only exception to these reports will be the Secretary's and Treasurer's Reports and the Convention Reports which we should address individually. Any Committee Reports received too late to provide to the Directors ahead of time would be deferred

to the New Business portion of the meeting.

2. Directors are asked to advise the Secretary as soon as possible after receiving the preliminary agenda of any additional agenda items they desire to submit. The Director should indicate his expected Board action on the new agenda item (i.e., simply introduction for discussion and assignment, discussion and vote, information only). We should resist the acceptance of agenda items introduced at the eleventh hour or at the meeting unless, of course, they are of extreme importance. The Board should decide the disposition of all agenda items introduced late.

3. Now that the Director's Newsletter is established, we should use this vehicle to take care of as much business as possible outside the Board Meetings. This also will permit the Executive Committee to deal more directly with those matters falling under its perusal and keeping the Board properly informed of activities and decisions.

4. Employing the above procedures, I would propose that we limit our business discussions (by the clock) on each item and if we cannot come to a vote on matter within that time period (say 10 minutes), the business is tabled to be handled through the Executive Committee, the Director's Newsletter, or at the next Board meeting. I will ask one Director to be time keeper.

5. We should be able to get through our Board meetings in three hours or less! We should move quickly through the "procedural" portion and get to the business end of things within the first hour. If we cannot dispense with an issue within an allotted time, it should be

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President's Notes

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deferred and we should move on to other business. We must allow sufficient time during the old and new business to cover technical and other issues affecting loran nationally and world-wide. I would like to hear from the Directors with their comments and suggestions and invoke the above procedures for the Board meeting coming up in April in the Washington, DC area.

BOARD MEETING 26 APRIL 1990.

Dave Scull is making arrangements for our April Board meeting. We are going to try something a little different. We will find a meeting location where we can start about 10:00 a.m. - maybe an Adroit Inc. conference room or a local restaurant in Alexandria, VA. We will meet till about noon and break for lunch. This will allow time for the Directors to socialize and for informal discussions concerning business covered already during the Board meeting. We would reassemble about 1:00 p.m. and continue the meeting hopefully ending up before 3:00 p.m. allowing people to meet transportation commitments and avoid the traffic. This would give us a full 3 to 4 hours with a break in the middle, and, if we can get a little more efficient in the front end of things, sufficient time to take care of a good schedule of business! More on specifics as Dave gets arrangements finalized.

KEEPER OF THE FEDERAL RADIONAVIGATION PLAN (FRP).

We need a designated "keeper" of the FRP for the Wild Goose Association. That is, one Director who will himself step forward or a member who will work under that Director as the person who takes the FRP under his or her wing and becomes the resident "expert". This person would become familiar with the FRP, the process by which it is created, its impact on loran (and the other radionavigation systems of the future), and the inputs WGA has made in the past to its preparation. He would keep track of the process in developing the next edition and act as the conduit for requests for WGA assistance from the preparers of the FRP. He would orchestrate WGA's input to and attendance at the annual User Meeting held by DOT and put together formal WGA comments on the FRP. We are asking each Director to assist us in designating someone for this important position - you may want to do the job

yourself - or if you have someone in mind, please line up that person and provide the names, etc, to John Beukers. Our most recent input to DOT on the FRP has received considerable attention with copies having been sent to the Coast Guard, FAA and DOD. Our proposal to assist with the preparation of the next FRP is being viewed favorably and I expect we will be asked to help - we should be ready to respond when that happens and we need someone up to speed to take the first steps in any such requests.

LATEST ON DAVE CARTER

Dave's family is pleased with his recovery. He is starting to receive physical therapy and has movement of both arms and legs. His son says he still had difficulty speaking due to the effects of the tubes that were in for so long, but his mind is sharp and his prognosis seems very good....we all hope Dave has a speedy recovery. Send any cards or letters to his home address at 15922 Paisley Lane, Bowie, MD 20716.

In the meantime, we have asked Bruce Hensel of JET, Inc. (formerly ANI) (616) 949-6600, to handle Dave's Land User Committee responsibilities temporarily. Bruce is a member of that committee and attended the last Board meeting in San Diego.

FROM THE LAST BOARD MEETING - 25 JAN 1990 - SAN DIEGO.

There were a number of ACTION ITEMS that came out of the last Board meeting. There has already been some mix-ups because I was not keeping good notes on these assignments as they were made - in the future, we will be keeping a separate list of action items and these will be followed up shortly after the meetings. Here is the status of some of these:

WGA 5-yr Plan/Budget: Carl Andren to set up Financial Reporting system (which will include Income, Expenses, Net Worth, etc) and Budget using software that Zeke Jackson indicated was available for WGA use - Carl and Zeke to get together on this. Reports for the April Board to be in new format. 5-year Plan still not together - dependent upon sorting out source of revenues to support (this is basically the Journal).

UK Radionavigation Issue: McGann's letter to UK Department of Transport (draft of which was passed around at Board meeting) was sent on 2 FEB90. Ed did a nice job on this! Secretary has copies on request.

WARC 1992 Inputs from WGA. Unfortunately your President screwed

this one up and apparently made assignments to two individuals to do the same job! After I asked Walt Dean to prepare something, Ed McGann came through with some more input. Fortunately, we have agreeable Directors and the two inputs were married into one and submitted by Walt Dean on 12 FEB 90. Thanks to both Directors for a rapid and complete response to an important international issue! Secretary has copies on request.

UNFINISHED BUSINESS.....here we get into some of the matters I have discussed elsewhere - taking up Board business in the Director's Newsletter.

OLD BUSINESS (from 2/25/90)

1990 Budget - New form of Financial Reports - to be completed and introduced by Andren at next Board meeting (April) - Carl Andren needs input from Sect. on Inventory - needs better way to track accounts payable that don't come to his attention (i.e., those originated for Convention, Proceedings Printing, etc). Andren needs to get together with Zeke Jackson and explore using the financial reporting software he has available.

WGA 5-yr Plan/Budget - Carl Andren needs more input - particularly regarding the expected sources of income. Believe an updated version of what John Beukers put together last year is a great place to start. Culbertson and Beukers will take a first cut at this. Membership Drive - we talked around this at the Board meeting - discussed value of the response cards, etc. What we need From our Membership Chairman (Moroney) is some Plan for us to follow in achieving our goal of doubling our membership this year. This plan could include some goals and assignments for the Board. Request that Membership Committee Report for the April Board meeting discuss and at least outline this Plan.

NEW BUSINESS (from 2/25/90)

Loran U.S. Postage Stamp - Board felt was perhaps a good idea. Beukers to look into the process to get rolling and report back to Board - hopefully via this or a subsequent edition of the Director's Newsletter.

Symposium in Europe - based upon Board opinion during meeting, Illgen has been advised to continue with his investigation. Beukers has thoughts about conducting in UK. Have suggested that Illgen pick a date (year) upon which Board can better focus. Anyone with thoughts or suggestions, contact Illgen.

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Presidents's Notes

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Soviet Block Visitors - item still not yet resolved. Discussed need to go through the "hoops" on this one since now that Soviet representatives have attended one of our conventions, we should expect them again. Although our symposiums do not address classified matters, per Se, there may be elements of technology exchange that someone could think are sensitive and without properly registering, we could risk some threatened or actual bar to our proceedings. John Beukers to follow up based on information already provided by Illgen - Since USCG currently working directly with USSR on combined Loran-C chain, we should include them in on our efforts - suggest going directly to RADM Nelson (G-N) on first shot.

WGA Policy Statement - this is needed to respond to many who ask. Some suggested statements were passed around at last Board meeting and there did not seem to be any negative inputs. Secretary will publish this statement in the Director's Newsletter and unless objections, comments, suggestions, etc are received, this will be use as the statement of WGA Policy!

Ramblings

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I would suggest that the matter of dues renewal (see Membership Status) should be of concern to the Board. Also, it is important to dwell on the subject of Convention mop up (see Post-Convention Mop Up) because it takes an inordinate amount of secretarial time which can be put to more creative use. Of more than historical interest is the short article "How Wrong Can You Be". This serious blunder continues to be made due to lack of communication, misinformation, lobbying and political distortion. The WGA can and must be heard. What do you think?

Take note of the time and location of the next Board Meeting and please have your reports to me no later than April 6th, 1990, so that they can be circulated and received by all Directors prior to the board meeting - thanks.

Manufacturer and Dealer Representation

Proposal for getting a pipeline to loran businesses worldwide.

The WGA has several requirements for an accurate up-to-date database of all manufacturers and others involved in loran worldwide that are in the business of supplying loran equipment or services. This list can be used as a vehicle (through the use of the Manufacturers' card) to get new members, for encouraging attendance at the Convention, for soliciting advertising and obtaining, by questionnaire, the current number of users and market growth. It is an advantage for the industry to be in this database since it will put them in touch with WGA initiatives being conducted and the Government's plans and policies, for example the FRP, PLC's, WARC, and the Federal Register.

To achieve success in compiling this database, it is recommended that all loran-related businesses are represented on the Board either directly or indirectly. For example, by writing to our agent in Korea, we have a listing of the receiver manufacturers in that country. As a Director I would represent Korea through the third party agent. Another example is Japan - we have written to an active member in Japan for a list of the loran manufacturers in that country. For the U.S. we need to have a personal contact with each company either directly or indirectly known by a Director.

To make this work, we need to make allocations to Directors and ask for their cooperation. I would like to see this as an action item for the next board meeting so if you think the idea has merit, please think about it and be prepared to offer your territorial claim.

IALA Information

A Distribution List needs to be generated.

As you know, the WGA is now a member of IALA. This entitles us to receive notices of meetings and material that is generated and mailed to all members. What to do with it? If Directors who are interested in seeing the material would let the Secretary know, a routing slip will be generated. Further, if the interest level could be indicated, the routing will be prioritized accordingly.

GPS/Loran to Replace VOR/DME

FAA issues "Advanced Notice of Proposed Rulemaking" for public comment.

From Ed McGann

This is a quotation from the Washington Staff Report of the National Association of State Aviation Officials (NASAO).

"FAA recently issued an "Advanced Notice of Proposed Rulemaking" (ANPRM) requesting public input as it initiates the rulemaking process to develop the future air navigation system. Congress has directed FAA to replace the current VOR/DME based system with one offering greater precision and safety.

FAA has requested airspace user comment by May 22, '90 via Advance Notice of Proposed Rulemaking

It is widely believed that the new system will be based on the U.S. global positioning satellites (GPS) and the Soviet global navigation satellite system (GLONASS), though it may also incorporate the inertial navigation system and LORAN. The long-term effort will result in updating the rules to eliminate obsolete language, revising the regulatory standards to accommodate as sole means of navigation for IFR en route and terminal operations. NASAO is reviewing the ANPRM for comment.

And here is a quote from the February 12th issue of Aviation Week and Space Technology.

"The FAA has taken its first step toward authorizing use of Loran-C and the Global Positioning System (GPS) as stand-alone alternatives to the long-used VOR/Distance Measuring Equipment (DME) for Instrument Flight Rules operations. The agency has requested airspace user comment by MAY 22 via advanced notice of proposed rulemaking"

ACTION: The Board may wish to develop its own comments and communicate them through the proper channels to the FAA.

Membership Status

New and dropped membership reviewed.

While there is a steady stream of new members, the number of members not renewing their dues this year should be of concern to the Board. The dues renewal form and business reply envelope resulted in a much faster collection of dues, however the returns have just about stopped. A reminder will go out to those that have not renewed indicating that they will be dropped from the mailing list on April 1, 1990. In addition a reminder will be included in the next issue of the Goose Gazette to be published in March.

The statistics of membership that have been published in each issue of this newsletter now include the additional line item of members who have not renewed. Non-renewal of dues might be an action item for the Membership Committee and an agenda item for the next Board meeting. If we are to meet our membership goals, the turnover must be reduced.

Welcome to our New Members

Albright, Gerry
 Baldwin, Michael C.
 Bills, Kenneth G.
 Blum, Lawrence J.
 Botsford, Alan
 Canavan, William J.
 Casas, Henry A.
 Cole, Harold L.
 Cook, Kathy
 Driskill, Robert E.
 Erb, Lee A.
 Ewy, Bob
 Fischer, Robert W.
 Fogarasi, Stephen
 Fuchs, Claus
 Futter, Mark E.
 Heavener, Arthur A.
 Hill, John
 Hine, Thomas L.
 Hopkins, Cecil J.

Keefe, Howie
 Kohler, Mary S.
 Long, Jr., Joseph M.
 McDonald, Carolyn P.
 McDowell, Robert W.
 Moore, D.C., Allen E.
 Moses, Shahar
 Naylor, Robert W.
 Picking, Henry F.
 Richardson, Avery G.
 Ripley, Roger
 Roberts, Wallace B.
 Robinson, J. Milo
 Sinnett, Joseph
 Slobe, Ron
 Todebush, Peter C.
 Weber, Jean-Claude
 Woolsey, E. John
 Yeakel, Larry E.

Membership Shows a Significant Drop

Membership Statistics

Here are the membership statistics as of March 1, 1990 for paid up members for 1990 or beyond:

	May 26	July 26	Sept. 26	Nov. 27	Jan.1	Mar.1
Individual	320	346	372	415	426	295
Corporate1	5	5	5	5	5	3
Corporate2	11	12	12	12	12	8
Associate	5	5	5	8	8	2
Sponsored	93	93	102	102	102	48
Life	24	24	24	24	24	27
Honorary	9	10	10	10	10	10
Prospects	N/A	421	596	771	817	944
Complimentary	41	41	41	41	41	40
Total Membership	467	494	533	576	587	393
1988 Delinquencies				102	102	102
1989 Delinquencies						218

The total paid up membership, including Life and Honorary members, currently stands at 393 with 944 prospects listed. Membership dues notice for 1990 were mailed during January. The new system of dues renewals resulted in an initial rapid response that has all but dried up. Note the large number of unpaid renewals.

Dues Renewal Reminder

For the Goose Gazette (and non-current Directors.)

Does the number following your name on the Newsletter mailing label end in 1989? If it does, then you are on file as not having paid your 1990 dues. To preserve our cash and to better serve our paying members, we purge the WGA mailing list in April of members who are in arrears (reinstatement will cost you an additional \$5!). This, therefore, is an urgent reminder to renew. For just \$20 (\$30 Overseas) you will continue to receive the Gazette, the new Journal and Convention Announcements.

Notice the increased size and content of the Gazette and read the article on the Executive Committee's decision to increase the frequency of publication from quarterly to bimonthly. Loran is moving right along, and we would like to have you remain with us.

Nominations Committee Reports

By Jim Van Etten

The Nominations and Election Committee, comprising Bill Garmany, Vern Johnson, and Jim Van Etten, Chairman, have selected a slate of candidates for President and Directors. This slate will be presented to the Board of Directors in April for approval or revision.

The slate consists of the following individuals:

For President:

Jim Culbertson, Bob Lilley

For a three year term as Director:

Jim Alexander, Dave Amos, John Beukers, Leo Fehlner, Henry Marx, Mike Moroney, and Ron Wiener.

Kjell Enerstad and Bob Bronson have been nominated but not responded as of this date.

Candidates have been asked by the committee to define their particular interest and how they could and would contribute to the organization. Short biographical sketches have been requested.

Ballots will be mailed in May; polls will close June 30th. Election results will be published in the next Gazette.

Expanded and More Frequent Gazette

Reacting to the need for more publication space, Goose Gazette Editor Bob Lilley recommended that the WGA newsletter frequency be increased to bimonthly instead of quarterly. The matter was taken up by the Executive Committee, and it was agreed that this would be in the best interests of the membership and so the Executive Committee gave approval to Bob to go ahead. Subsequently Bob requested a quotation from the printer he uses for the Goose Gazette and was pleasantly surprised to learn that for a modest increase of some \$200 per issue the Gazette could have sixteen pages instead of the current eight. At least for the next issue this solves the problem of too much material. The Call for Papers is to be included in the centerfold.

So look for a super issue of the Gazette in due course, and thank you, Bob Lilley, for undertaking the extra workload.

1990 Convention

By Jim Alexander

Arrangements for the 1990 Convention are falling into place. Jim Culbertson and I attended a meeting with the Commander of the 11th Coast Guard district and obtained full Coast Guard cooperation for the Convention. We are making a strong appeal to all manufacturers to have a presence at the Convention exhibition and to have representatives attend the Technical Symposium. To this end we are working with the Secretary to refine the Manufacturers' and Dealers' data base with names of loran and loran-related businesses. Any help that Directors can give in this endeavor will be welcome.

Secretary's Note: The Call for Papers is to appear in the Winter edition of the Goose Gazette due out in March. It will also be mailed to the Prospects on the WGA mailing list, the media and others. The information for listing the Convention in the Calendars published by magazines is in the process of being mailed to the media.

Post Convention Mop Up

Arranging and conducting a convention is a lot of work for a volunteer Chairman (or Co-Chairmen) and the Convention Committee. Once the Convention is over, there is sigh of relief, and it's back to work to catch up on tasks that got put aside. Because the organization set up by the committee is disbanded, any unfinished business has a tendency to be left undone and forgotten. The solution to this problem may lie in the administrative policies and organization established prior to the Convention.

For example, the WGA has \$2000 to \$3000 of Convention registration income outstanding. The Secretary's office has made at least 30 phone calls, written letters, sent faxes, re-invoiced, filled out forms and become frustrated with the amount of time being spent as a collection agency. It is recommended in future that all Convention registration money is payable up front and that purchase orders are not acceptable. Further, promises of payment should not be accepted as tender for admittance to the Convention. This matter has been reviewed by the Executive Committee and the Committee is in agreement with these policies.

A direct tie between the registration and the membership database must exist at all times. This will help to avoid post-convention confusion as to who paid membership dues and who attended the convention as a member who, in fact, was not a paid up member. Further, having individuals present in person is an opportunity to get mailing, affiliation and phone numbers correct and should not be missed.

WGA Radionavigation Policy

An agreed upon statement of WGA policy is needed

Worked out before the last Board meeting and presented in draft form at the meeting was a draft Statement of Radionavigation Policy for general use. To have an approved version of such a document will ensure consistency to the answer to the frequently asked question "What does the WGA do and what does it stand for?"

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Policy

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The Statement is reproduced here, in full, so that Directors can review its wording and be prepared to discuss and move upon its adoption in an agreed upon form.

Draft

Wild Goose Association

Statement of Radionavigation Policy

The Wild Goose Association (WGA) consists of organizations and individuals who advocate the continued implementation and use of the LOng RANGE radio Navigation system Loran-C throughout the world.

Since its inception in 1972 the WGA has followed its charter which states:

"The Wild Goose Association is a professional organization of individuals and organizations having an interest in loran radionavigation and who wish to foster and preserve the art of the loran art. It is named after the majestic bird that navigates thousands of miles with unerring accuracy. Its membership represents many interests including those of planners, promoters, designers, and users of loran equipment throughout the world."

While the Association's interest is loran and loran's development over the past 50 years, its current priority is the responsible implementation and use of Loran-C. In this context the WGA provides a technical forum for national and international loran related radionavigation issues.

In pursuing its advocacy role, the WGA acknowledges the presence of other long range or global radionavigation systems and recognizes that benefits accrue when these systems are used in concert.

The WGA supports the use of satellite systems, Omega or special purpose systems when employed within their technical limits. The Association is, however, opposed to, and will respond to pronouncements of "Sole Means" for a single system when these are detrimental to the orderly implementation to a mix of radionavigation systems.

The WGA is both technically and user oriented. In support of the User, the Association advocates that all radionavigation systems for use by the civil sector have transmitted signal specifications and signal availability published in the Federal Register. Further the WGA advocates that dynamic notice of signal condition and availability are broadcast to users in a timely manner.

The WGA supports the position of the prudent Navigator who requires the availability of more than one navigation system for navigating with integrity.

The WGA actively participates in the formulation of government radionavigation policy by providing comments and suggestions to the biennial U.S. government Federal Radionavigation Plan (FRP).

The WGA is sensitive to false and misleading claims of signal availability, performance and schedules for all long and medium range radionavigation systems and responds to such claims as appropriate.

The WGA recognizes that there is a substantial amount of development work to be completed with Loran-C as the system spreads to worldwide use and campaigns for the continued financial support of these activities.

How Wrong Can You Be?

Excerpts from a General Accounting Office Report.

DOT Should Terminate Further LORAN-C Development And Modernization And Exploit The Potential Of The NAVSTAR/Global Positioning System.

Bet that got your attention - but not to worry. See what happens when the bean counters listen and act upon irresponsible promotion and technical misinformation. The need for the WGA to be active in communicating to the government cannot be better illustrated than by revisiting a report written by the GAO to the Secretary of Transportation, dated September 18, 1981. This report castigates the Coast Guard and the Research and Special Projects Administration of the DOT for even considering Loran-C as a future radionavigation system. It is must reading as a reminder of what can go wrong and how imperative it is for the WGA to maintain a strong input to radionavigation policy. The WGA Secretary holds a copy.

To quote: "...we found that the Coast Guard....plans to continue operating LORAN-C until at least the year 2000, at a cost of approximately \$35 million a year currently and escalating to approximately \$60 million a year by 1984, although GPS is scheduled to provide coverage equivalent to LORAN-C as early as 1986....."

"Based on our review, we believe that the Coast Guard's plan to operate LORAN-C until at least the year 2000 is based upon questionable assumptions and the Coast Guard could phase out LORAN-C for civil use by the early 1990's...."

And the GAO conclusions and recommendations: "...GPS's potential as a replacement for LORAN-C....negates the need for the (expansion and replacement) program at this time.

Even now the GPS program has a long way to go to get all of the satellites launched and in their proper orbits to provide coverage equivalent to Loran-C with civil administrative controls. Where would we be now if the Secretary of the DOT had heeded the misguided recommendations?

Isn't this a good enough reason for the WGA to be heard?

NASAO/FAA Loran-C Planning Meeting

Notes from October 25, 1989, Lansing, MI.

The notes taken at the October 25th meeting together with the attendance, dated February 20th, have been received by the Secretary. The notes include attachments from Bob Lilley (Far Field Integrity Committee), Jim Greshel (Loran-C Education Committee) and Jim Enias (Monitors, operational changes, transmitter schedules). The notes provide an excellent and comprehensive update to the Loran activity in aviation. Copies will be mailed to Directors upon request.

Loran-C Meeting in Marseille, France

Report of 3rd I.A.L.A. gathering for Mediterranean Countries received by the Secretary.

Seven countries attended the meeting hosted by I.A.L.A. in Marseille on 21-22 November 1989. The sixteen page report provides the activity of each country considering the use of Loran-C in the Mediterranean and includes a presentation by Andreas Stenseth of the proposal for the N.W. European Chain. There is a statement of U.S. GPS policy delivered by the U.S. Coast Guard Acteur, Cdr. Stoeger, from London.

The report ends with twelve agreed-upon conclusions which are, in effect, an action list. The next meeting of the Iberian Chain Working Group is to be held in Madrid in March 1990. The 4th Loran-C meeting for the Mediterranean countries is to be held on May 9th and 10th in either Rome or Paris.

Directors interested in receiving a copy of the report should contact the Secretary.

WGA Factsheet to be Reprinted

Recommendations for additions and/or changes solicited.

We are running out of the two-color WGA Factsheet published just over a year ago. This has served us well, and we now have an opportunity to revise and update

Civil GPS Service Committee Meetings

WGA members may attend General Sessions.

Although by the time this reaches you the March meeting will have already taken place, the information provided may be of interest for making plans to attend the June meeting.

The Civil GPS meetings cover two days and are usually held at the Sheraton Premiere Hotel, Tysons Corner, Virginia. The next meeting takes place on March 6-7, and the June meeting is tentatively scheduled for June 5-6.

The first day is a general session requiring no registration and is open to anyone caring to attend. The meeting starts at 8:30 AM and takes up a full day.

On the second day there is an Executive Committee meeting from 8:30-10:00 AM which is restricted to government agencies and international representatives.

At 10:30 AM the subcommittees meet of which there are four with a fifth anticipated. There is no restriction to attending these meetings.

- (1) International Issues, chaired by George Preiss and usually attended by representatives from Canada and overseas.
- (2) Reference Stations, chaired by LCDR Doug Alsip.
- (3) Surveying and Precise Positioning, chaired by Bill Strange
- (4) Timing, chaired by Dave Allan

The fifth committee proposed will deal with Carrier Phase Positioning and Navigation.

The WGA is now on the mailing list for meeting notification and more timely information will be available in future. The contact at the Department of Transportation is Joe LoVecchio or Karen Van Dyke at 617-494-2432.

the information contained therein. A copy of the fact sheet is enclosed with this newsletter. Please, will all Directors review this and return to the Secretary with recommendations or bring it along to the next board meeting.

We get a lot of mileage out of this threefold, and it has a wide distribution. It should, therefore, be as factual and informative as possible.

Next Board Meeting

Date, time, location, travel and accommodation.

By Dave Scull

The next Board Meeting will be held on April 26, 1990, starting at 10:00 AM and finishing around 3:00 PM with a break for lunch. It will take place in Old Town, Alexandria at a place that has yet to be determined.

For those who wish to make plans ahead of time there are several local hotels. The new Marriott Suites (opened in January 1990) can be reached on 703-836-4700, and the Best Western, Old Country Inn on 703-548-6300. There is a Ramada Inn in the vicinity. Government and corporate rates are offered.

The area can be reached by the yellow line Metro on a Huntington train at the Braddock Road stop. The hotels mentioned are about four blocks from this stop.

Further information about the exact location will be circulated to the Directors when known. The date, time and area are firm.

Forth-coming Meetings

The following notices of meetings or conventions have been received by the Secretary:

NOAA National Ocean Service and the Hydrographic Society of America
"The Fourth Biennial National Ocean Service"
"Navigating the Nineties"
Omni International Hotel, Norfolk, VA
May 1-4, 1990
Contact: Frank P. Margiotta, U.S. Hydrographic Conference '90, PO Box 177, Norfolk, VA 23501

FAA/NASO

Loran-C Planning/Work Group Meeting
March 7 & 8, 1990, Washington, DC
March 7 - Rm 6200, US DOT Bldg., 400 7th St., SW
March 8 (AM) - Omni Shoreham Hotel, 2500 Clavert St., NW
March 8 (PM) - McCracken Room, 10th Fl, FAA Headquarters, 800 Independence Ave.

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Current Navigation Articles

Here is a listing of Radionavigation articles in *The Journal of Navigation* (Royal Institute of Navigation).

GPS Inadequacies: Comparative Study into Solutions for Civil Aviation.

The INMARSAT Satellite Radionavigation Test Bed

U.S. Programme For Development of Satellite Services for Air Traffic Control.

Advances and Test Results in Differential GPS Navigation

The IMO Worldwide Navigation Study
Differential Omega as a Worldwide Navigation Aid
Civil Satellite Positioning Systems

Radionavigation articles found in the November 1989, *Proceedings of the IEEE, Special Issue on Air Traffic Control* are:

The US Air Traffic Control System Architecture

The Use of Satellite Technology for Oceanic Air Traffic Control

Applicability of an Augmented GPS for Navigation in the National Airspace System

In the Winter 1989-90 issue of *NAVIGATION* (Journal of the Institute of Navigation), the following articles of radionavigation interest are:-

The Federal Radionavigation Plan and Its Impact on International Radionavigation Planning.

Omega System Performance Assessment
Wind Measurements over the North Atlantic using a Loran-C Dropwindsonde.

Bibliography Gets Update

1989 Technical Symposium papers are added.

The 1990 edition of the WGA Bibliography has been prepared to include the papers presented at the 1989 Convention.

The Bibliography has turned out to be a useful document to introduce new-

Forth-coming Meetings

Continued from page 7

Satellite Division of the Institute of Navigation
ION GPS-90, 3rd International Technical Meeting
Sept. 19-21, 1990.

Broadmoor & Red Lion Inn, Colorado Springs
Abstracts for "Call for Papers" to be sent to Dr. Per Enge, Worcester Polytechnic Institute, Dept. of EE, 100 Institute Road, Worcester, MA 01609
Phone: 508-831-5338
FAX: 580-831-5491

IEEE Aerospace & Electronics Systems Society
PLANS'90
Position Location & Navigation Symposium 1990
"The 1990's - A Decade of Excellence in the Navigation Sciences"
March 20-23, 1990
Riviera Hotel, Las Vegas, Nevada 89114
Contact: Larry Atkins, Phone: 828-506-4231

International Omega Association
15th Annual Meeting
"Omega in the Nineties: High Technology, Low Cost, International Ownership"
September 24-28, 1990
Hotel Sanur Beach, Sanur, Bali, Indonesia
Technical Paper Abstracts due: June 1, 1990
General Chairman: Henry B. Schlachta
Phone: 514-340-3043
Fax: 514-340-3100
Technical Chairman: Robert C. Thomson
Phone: 703-866-3862
Fax: 703-866-3866

Department of Transportation
Civil GPS Service Committee Meetings
March 6-7 1990
June 5-6 1990 (Tentative)
Sheraton Premiere Hotel
Tysons Corner, VA
Joe LoVecchio
Karen Van Dyke 617-494-2432

comers to the loran discipline. The Secretary gets a fair number of calls of the nature "I'm interested in learning about loran - where do I start?" The \$10 investment in the Bibliography appears to be appreciated and has led to several new members and the sale of publications.

Loran-C System Specification

Inquiries can now be met.

We have now received a copy of the DOT Coast Guard Specification of the Transmitted Loran-C Signal, COMDTINST M16562.4 dated July 1981. While this is an old document, it has been somewhat illusive and it is our understanding that it is the latest edition. This 88-page document is now in the WGA files and can be made available to members and non-members for a nominal charge.

The WGA files are still lacking a copy of the original WGA initiative document "Loran-C System Characterization". Once again this is an appeal to get a copy into the files.

These are important documents that are requested from time to time by parties interested in learning about the Loran-C transmitted signal. The Coast Guard Specification is in need of an update - should this be a WGA initiative to push or help with a revision?

Loran Videos

Secretary is maintaining an inventory.

The sale of the three loran videos offered by the WGA has been lively. We have prepared labels and created a package for these that look very professional. An inventory is being maintained which is replenished as necessary and is available for immediate shipment. The two FAA-created tapes are shipped direct from St. James, the third, created by Henry Marx of Landfall Navigation, is drop shipped by Henry.

Formats other than NTSC are available by special order. Such an order in PAL format recently went to Norway. The FAA GPS/Loran video was shown at ministerial level.

There is an indication from Ron Wiener that a loran training tape is being prepared for the aviation community which, it is hoped, will also be made available to the WGA for distribution.

IEEE AES Magazine Accepts WGA Input

by John Beukers

Through the good graces of Warren Cooper, the Aerospace and Electronic Systems' Magazine Editor and with the approval of the IEEE Board, the WGA is able to provide a column every other month to the AES readership of some 10,000. In addition, the magazine carries a calendar listing of meetings which includes the WGA Annual Convention.

In a recent conversation with Warren Cooper he offered to publish one of the papers printed in the WGA 1989 Proceedings, Frank Cassidy, the Technical Chairman for the meeting has been contacted for a recommendation for the paper to be selected.

Dear Wild Goose Member:

Expanding upon President Jim Engelland's letter, I would like to describe further our objectives with SYSTEMS. Because of the interest of our members in navigation we have invited the Presidents of IOA, WGA, and ION to contribute a monthly or bimonthly column addressing topics of interest to their members. As a monthly magazine we feel we can provide a current forum for topical communications in navigation specialties.

We provide announcements and calls for papers for ION, WGA, and IOA conferences as well as for our own, and IEEE conferences of interest to our members. In addition we publish the tables of contents of conference proceedings and selected papers from these conferences. We have invited conference chairmen (or their designees) to provide summaries of those papers or events that made the conference memorable.

In SYSTEMS we publish papers selected from AESS co-sponsored conferences, such as the Position, Location and Navigation (PLANS) conference, Digital Avionics Conference (DASC), National Aerospace Electronics Conference (NAECON), as well as from non-AESS navigation conferences such as OMEGA, Wild Goose and those ION proceedings papers not selected to be published in the ION JOURNAL OF THE INSTITUTE OF NAVIGATION.

We also publish—on a regular basis—abstracts and references of other publications on navigation from the IEE INSPEC data base.

We welcome non-IEEE members to

subscribe to our magazine, SYSTEMS, or to join the IEEE/AESS as Affiliates or as regular IEEE members (and receive the IEEE TRANSACTIONS ON AEROSPACE & ELECTRONIC SYSTEMS).

signed

H. Warren Cooper

Dear WGA Member:

The leading interests of AESS members are navigation and radar. Through our magazine we attempt to benefit our members by providing a forum for organizations whose members are navigation-oriented.

Non-IEEE members should read this magazine. As a member of the Wild Goose Association you may subscribe this year for a special rate of \$20.00/year—the normal non-member rate is \$54.00. Options of IEEE/AESS membership or affiliation are available elsewhere or by calling 1-800-678-IEEE.

Our magazine contains articles in the systems field which includes, but is not limited to, navigation, avionics, spacecraft, space power, radar, sonar, telemetry, defense, transportation, and command and control.

Member interest has resulted in regular columns from ION president Portney, OMEGAs Heywood Shirer, and your own Jim Culbertson.

Descriptions of the objectives of the magazine, and future plans, are given in Editor-in-chief Warren Cooper's accompanying message.

Sincerely,

James D. Engelland
President, IEEE/AESS

Mel Olken
IEEE Tab

WGA

445 Hoes Lane
Piscataway, New Jersey 08854

Mel: I WILL take advantage of the AESS offer of a year's subscription to their magazine SYSTEMS for \$20.00. My check is enclosed.

Mailing address:
Thanks in advance.
Date

GPS World is Published

New Magazine specifically addresses
GPS Issues.

Many, if not all, the Directors will have received the first issue of the new magazine "GPS World". The editorial staff and publisher are to be congratulated on an excellent publication supported by a professional staff of contributors. The magazine is of the "qualification for free subscription" type and carries a substantial amount of advertising.

Unlike the situation with Loran-C, it must be remembered that at present the GPS system is in the development stage, substantial contracts are in place, and there is a lot of money flowing.

Directors' Newsletter

The Directors' Newsletter is issued on the first of the month except the month following the month in which a Board meeting is held. The closing date for material to be included is the 26th day of the preceding month.

Closing Date	Issue Date
1990	
January	Board Meeting
February 26	March 1
March 26	April 1
April	Board Meeting
May 26	June 1
June 26	July 1
July	Board Meeting
August 26	September 1
September 26	October 1
October	Board Meeting
November 26	December 1
December 26	January 1 (91)

Please direct all your comments and answers to requests in this Newsletter to:

John Beukers
Beukers Technologies, Inc.
Flowerfield, Building #7
St. James, NY 11780

Phone 516-862-7500
Fax 516-862-7403
Modem 516-862-7576

Constitution and By-Laws Review

by Vern Johnson, Chairman
Constitution Committee

The Constitution Committee met on 15 Feb. 1990 to review the Constitution and By-Laws and identify areas where changes need to be considered. A summary of the areas identified for potential change, together with the areas for change that have been identified through recent Board meetings or from individual Directors, is shown below.

The purpose of the Committee at this meeting was not to draft the language for changes, but rather to place in view for all the Directors the spectrum of potential changes so far identified; to allow comprehensive consideration of the changes, and to stimulate the identification of any other changes that should be considered to facilitate the proper functioning of the Association in its new initiative and direction. The Constitution Committee has the need for both broad and specific direction from the Board before the language for the specific changes desired by the Board can be drafted and presented for Board approval. It is hoped that such direction will be forthcoming from the next Board meeting. To this end Directors are requested to provide their comments on changes needed to the Constitution and Executive Committee Chairmen as soon as possible to allow their consideration prior to the next Board meeting.

CONSTITUTION REVIEW

Article I, Name. A change in name of the Association has been suggested, but a consensus has not yet emerged. A special committee has been formed to study this issue and make recommendations to the Board.

Article II, Aims and Purposes. and **Article III, Composition or Nature.** These articles should be reviewed and considered for change together with study of a name change.

Article IV, Section 4, Life Member. Consider adding the provision that a member will qualify as a Life Member by the "Rule of 80". The Rule of 80 would be applicable to a member who has attained

the age of 65 years and has been a WGA dues paying member for such period that the sum of his/her age and years as a member equals or exceeds 80 years. (This is essentially equivalent to the IEEE rule of 100 for Life Member). Other criteria could, of course, be considered but have not yet been expressed.

Article VI, Officers and Directors. and **Article VII, Organization and Powers.** Consider adding provision for an Executive Secretary and paid staff. This needs drafting on the basis of direction from the Board as to how it will be organized and financed and followed by careful review before moving to implementation.

Article VI, Section 2, Elected Officers. Consider changing or deleting the constraint of "two consecutive terms" now applicable to tenure of the President.

Article VII, Section 3, Executive Committee. Consider adding the Past President in a consulting/advisory role.

BY-LAWS REVIEW

Article I, Officers. Consider the changes that will be needed regarding the function of Executive Secretary.

Article II, Section 3, Executive Committee Meetings. Consider adding that the Executive Committee shall make a written report to the Board at each meeting concerning its actions since the last Board meeting.

Article III, Standing Committees. Consider the changes needed in all the Standing Committees in regard to the Executive Secretary function, with particular attention to the Membership Committee. (This ripples thru the various Articles that define the various committees.)

Various Articles on Standing Committees. Consider deleting the "even" number of members requirement.

Article XI, Awards. Consider adding new types of awards. Provision for a Student Paper Award and for Special Commendations have been proposed to date.

Article XIII, Radionavigation Journal. Consider the changes needed in regard to the new initiative and direction of the Association.

Standing Committees. Consider the preparation of procedures detailing the responsibilities and criteria for actions of each committee. Such procedures would be reviewed and approved by the Board prior to being implemented, and would constitute guidance to the Committee but would not become part of the By-Laws. Such a procedure was implemented for the Awards Committee in 1976 and remains in effect.

Vern Johnson, Chairman
Constitution Committee

News at Press Time:

Dave Carter Update - March 1 From Jim Culbertson

Jim reports that Dave is doing very well and is on his feet again. Although suffering from a one month loss of memory he is alert and the prognosis is excellent for full recovery of his mental capacity. He will be attending the NASA rehabilitation hospital in Maryland in the near future. We wish him and his family the very best.

Typing Assistance Requested.

A goal for making the Ioran bibliography more useful is to include an abstract for each paper. The abstracts will then be published along with the listing of authors and paper titles. This involves a substantial amount of typing. It would be greatly appreciated if anyone could volunteer some hours to input the abstracts into a word processor and output them as an ASCII text file. Please contact the Secretary.

