

# UNIVERSITY - NATIONAL OCEANOGRAPHIC LABORATORY SYSTEM

An association of Institutions  
for the coordination and support  
of university oceanographic facilities

UNOLS Office  
Woods Hole Oceanographic Institution  
Woods Hole, Massachusetts 02543

## ADVISORY COUNCIL

Minutes of Meeting, December 4-5, 1980  
Building A Conference Room  
Department of Marine Science  
University of South Florida  
St. Petersburg, Florida

GENERAL: G. Anderson, Council Chairman, convened the meeting at 0903, 4 December 1980, welcoming C. Miller who had recently returned from sabbatical in France. W. Sackett welcomed the group to his institution and W. Behrens, Director of Florida Institute for Oceanography, gave an overview of his institute's activities.

Those present were:

G. Anderson	* * * *
J. Martin	
C. Miller	W. Behrens
B. Robison	T. Forhan
W. Ryan	M. Johrde
W. Sackett	K. Kaulum
D. Spencer	J. Miller
T. Treadwell	T. Stetson

1. MINUTES OF PREVIOUS MEETING: The minutes of the Council meeting of August 7-8 were accepted as written.

2. SEPTEMBER SEMIANNUAL MEETING: A summary report of this meeting held 9-10 September 1980 at the Cosmos Club, Washington, D.C., had been circulated to the Council; there was no comment nor did the Council feel it had to formally accept it.

Several thought there should be a document summing up the East and West schedule coordinating groups that met at the Semiannual Meeting as promised at the time. The Executive Secretary will convey this request to Capt. Dinsmore, who summarized both groups' deliberations at that time.

3. RVOC ANNUAL MEETING: Both T. Stetson and T. Treadwell had attended this meeting 27 October 1980 at Port Aransas, Texas. A report of the meeting had been written by the former and was available to the Council. D. Letzring continues as Chairman while E. Veek was elected Secretary. Of particular interest were the various means of fuel conservation practiced by operators.

RVOC had established a steering committee and it was recommended that, through such a committee, RVOC might be asked to document and recommend fuel conservation practices as well as a uniform application of the "operating day" terminology. Currently, Miss Johrde sees it varying mostly by a matter of hours, among institutions. There are other items they should be encouraged to assess as well. Capt. Treadwell offered to communicate these thoughts to the RVOC Chairman. A full report of the meeting by the Executive Secretary is available from the UNOLS Office.

4. MARINE TECHNICIANS: As a result of deliberations at the August Advisory Council meeting an ad hoc committee of B. Robison, D. Spencer and T. Treadwell was formed and undertook to assess the need for a marine technician (MT) workshop in the immediate future.

Their conclusion was that a workshop based on the same considerations as the one held in 1975 would not be useful at this time. There was general recognition of the fact that the present sophistication of equipment demanded a broad range of MT expertise and that documentation on MT support and capability at member institutions should be available in suitable form to outside users of those institutions vessels.

Another idea would be to have the investigator state his MT requirements in his proposal perhaps on a modified 813 form or have operators list MT abilities/functions in their ship operations proposals.

The ad hoc committee agreed to look into the feasibility of the suggestions in session following this meeting.

5. AGENCY OVERVIEW OF 1981 SHIP OPERATIONS: M. Johrde, NSF, prefaced the following figures anticipated for '81 operations by saying NSF's budget was still pending with Congress and that it was possible they could go either up or down. The following ranges were indicated:

Ship operations	\$20-21	m
Marine Tech. Program	1.4- 1.5	
ALVIN program	1 - 1.2	
Other including UNOLS	.2	
Equipment & related	2	
Construction/Upgrading	2 - 2+	

The total could range as high as \$27.8M, with about \$250K set aside for VEMA's transit home at the conclusion of her final NSF program. At least \$300K should be realized from EASTWARD's sale and would be used to outfit Duke's new CZRV, due in September, 1981. A fuel supplement, in OFS's budget, might be honored, and bring \$600K to a million.

K. Kaulum, ONR, presented the following figures:

Core program, includes	\$29.6m
Ship Operations	
Research options	2.9
Forward funding	2.0
	<hr/>
	\$34.5m

The total, \$34.5m, is proposed for oceanography and would represent level funding plus an inflation increment. The two research options are programs of remote sensing and ship management.

In October, K. Kaulum was designated program manager for the seven USN-owned AGORS. \$15m is budgeted for rehabilitation and basic ship-board equipment over the next six years. The first vessel to benefit from this renewed interest by Navy is CONRAD, which is about to commence a refit.

It appeared that a letter of appreciation for these efforts might be in order and T. Treadwell, UNOLS Chairman, offered to write same.

The exact nature of NSF and ONR inspections of their owned vessels is still evolving.

There is Navy interest in automated AGOR engine rooms as well as a standard charter party agreement for these vessels.

6. NOMINATING COMMITTEE: A Nominating Committee of T. Treadwell, Ch., J. Martin, and G. Keller was appointed and will act to accept nominations from the membership to replace outgoing members of the Council and officers of UNOLS. Dr. Keller, OSU, will be contacted to see if he is willing to serve.

7. TECHNOLOGY ASSESSMENT COMMITTEE (TAC): There was a general discussion of the way in which TAC was operating. There appeared to be general agreement that the Committee had breadth but little depth community wide, that it was spread too thin in its attempt to take on complex topics. Each member represents one or more area of expert knowledge. It is difficult for members to share their respective areas of expertise in sufficient depth to enable the TAC to create

and release a community-based report.

A draft of the oceanographic crane report by R. Williams had previously been made available to Council members and was discussed. There was consensus that the report lacked specific recommendations. There was feeling that the report should have been worked on by the entire Committee, and should have included more input from more UNOLS Members. It should also have included some case histories of cranes in service in the fleet.

There was discussion on how TAC reports should be reviewed and finally accepted. It was agreed that the crane report should be reviewed by S. Berryman, RSMAS, D. Moller, WHOI, and R. Williams, Scripps.

T. Stetson listed other reports expected from TAC. It was agreed that the Advisory Council should see the reports and that they would appoint a review panel for each. It was further agreed that a panel of three would be asked to review A. Driscoll's report on winches and wire. Two of these were to be D. Rolf, TAMU, D. Moller, WHOI, and a third to be drawn from Scripps after being proposed by C. Miller who was returning there on Sabbatical.

Some oversight as to the priority of TAC projects was felt necessary. Instead of attacking many areas of concern all at once, D. Spencer proposed the following ranking: winches/wire, cranes, communications/navigation and ship laboratory space/facilities. G. Anderson and D. Spencer agreed to communicate these concerns to TAC.

As T. Rossby's function as overseer of TAC meetings had expired (he had initially agreed to carry out this function for one year) G. Anderson offered to appoint an appropriate Advisory Council member for upcoming TAC meetings. This proposal met with general approval. D. Spencer agreed, schedule permitting, to attend the next TAC meeting.

8. RESEARCH SUBMERSIBLE FACILITY REPORT: W. Ryan gave a progress report on the study under his direction concerning the short and long term suitability of the ALVIN/LULU system in meeting the needs of academic oceanography. A recommendation to convert ALVIN to a single point lift is expected to be made; whereas North Sea operators utilize subs of roughly half ALVIN's weight (16 ton) and can operate in sea state 4, and push it to 5, the ALVIN/LULU facility may operate in sea state 3 and push it to 4. The report will address the feasibility and cost of upgrading.

In response to the question as to whether unmanned vehicles had been considered, Dr. Ryan said they had and that the technology is still evolving.

Because of the "big" money implication, some thought was given to a review panel. Later this year a draft should be available to the ALVIN Review Committee as well as the Council and D. Spencer suggested the DIGITOW group at JPL\* should look at it as well. W. Behrens and J. Miller of F.I.O. offered to review it and suggested Ocean Engineering International as additional reviewers. If this report is available to the Council before its February meeting, then the Council will coordinate the report's review in preparation for general discussion at the UNOLS semiannual meeting next May.

OTHER: The following items were but briefly discussed.

Satellite Communication Link: T. Stetson gave a rundown on the system which has been funded by NSF for two years prior to UNOLS under-taking its support in July, for six months. This will end in January of 1981 unless all concerned agree to preserve it. The service suffers from "visibility" and documentation.

Options considered were transferring overview or whole station to Woods Hole or Texas A & M, or total abandonment. This latter option did not win approbation and it was offered projects such as PEQUOD, CODE and others may have an interest in the data link. D. Spencer offered to talk to various PEQUOD PIs at Woods Hole. Meanwhile the chief technician, Mr. Paul Eden at Miami, has been alerting his users to the fact that the system can go down.

OSB Fleet Study: The Ocean Science Board will study the present composition, capability, condition, management, usage and funding of the UNOLS fleet. Also to be looked at is the ability of this fleet to meet ocean science requirements in the next decade.

Members of the Council may be asked for their opinions on some facets of this study.

---

\* Formerly UDOS group at Jet Propulsion Laboratory, Pasadena, and now working with AOTDP, the Advanced Ocean Technology Development Platform.

Thomas Stetson  
Executive Secretary  
UNOLS

Upcoming UNOLS Meetings:

6- 7 January 1981	Western Region Scheduling Group, U. of WA, Seattle
26-27 January 1981	Technology Assessment Committee, MarFac, San Diego, CA
26-27 February 1981	Advisory Council, TAMU, College Station, TX

TS/lm