

However, the user constituency is unhappy over this change in status. They feel it would spell an end to block-funding among other dire prophecies. It was left that Duke University would reply to Dr. Dugdale.

JOHRENDE's letter of 17 August 1976 to Dr. Dugdale, which states EASTWARD's operation is now significantly different from other UNOLS vessels.

3. Frankenberg Letter. Discussion on this item inevitably drew in other agenda items. There appeared general agreement that ship scheduling at present is a relatively inefficient operation. Result was that a regional method is to be tried and is reported on under item 10.

2. The draft agenda was adopted, with additional items being referred by M. Johrde which are reported on under item 13. Several applications in hand are included under item 6.

1. The minutes of the A/C meeting September 1-2, 1976, were adopted, as written.

The attached agenda was adopted with minor modification. Certain items were deferred until the second day, but for chrono-logical sake are reported here as they appeared on the agenda.

* Term on A/C expires	
Dr. R. Dugdale, Ch.	5/77*
Dr. R. Barber	5/79
Ms. M. Johrde	Mr. T. Stetson
Dr. D. Frankenberg	5/79
Dr. G. Gross	5/78
Dr. G. Keebler	5/77
Dr. J. Martin	5/79
Capt. T.K. Treadwell	5/78
Dr. W. Wooster, Ch. UNOLS, ex-officio, annual	Dr. F. Webster, V.-Ch. UNOLS, ex-officio, annual

Others

The following were present for all or part of the meeting:

Minutes of Meeting held December 6-7, 1976
at Scripps Bldg. T-29 and the Hotel La Jolla

ADVISORY COUNCIL

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5. BLM's Use of Fleet. It was pointed out that BLM has no means of participation in our scheduling processes. [It was noted BLM is currently charting GYRE on Gulf Coast for use on Georgia Banks. This involves roughly 50 days of travel to gain 30 days on station.] It is noted that they will be invited to attend the meeting February 24, 1977, of multi-ship operators and agencies meeting February 24, 1977, of multi-ship operators and agencies.
- 6.1 Role of Associations. Discussion resulted in appointment of a subcommittee headed by Dr. Gross to include Drs. Frankenberger, Kellner, and Webster. Their charge is to examine or develop criteria for members, associate members, with respect to voting and election rights, recommends changes to the charter. A memo by Capt. Dinsmore (Dec. 3, 1976) was distributed and sets forth history of the Associate Member category.
- 6.2 Universality of Delaware has made application for full membership in UNOLS. Dr. Wooster, to whom this proposal was addressed, formally requested the A/C to consider it. Discussion and centered on whether Delaware has significant federal funding and exception was taken to a request on page 12 of this proposal that their vessel be considered first in assigment of ship time for all federal research in the area of the upper mid-Atlantic.
- As is true of other members, the business of selling one's ship is that of the operator. Mr. Jorndie pointed out that R/V fund-ship preceded UNOLS. UNOLS membership does not guarantee funding. Some former members have dropped out, (e.g. Fla. State, Nova, Stamford) when funding ceased.
- Upshot: Dr. Wooster will write a letter to Mr. Trabant, President, which will quote charter and also address their ex-president, who proposed schedule and funding for the next year.
- 6.3 The applications of Hobart & William Smith Colleges (Geneva, NY) and SEA (Woods Hole, MA) were deferred, pending the information on the proposed schedule and funding for the next year.



10.1 Long Range Scheduling.

Regional "forecasting" meetings

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menacing re-assessment of ships. Again, it was noted BLM might help It is uncertain how UNOLS can help, unless it gets into recom-

as their support for land-based research increases.

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R/Vs, e.g. Drs. Gregg on DE STEIGUER, Hickley on CAYUSE or WECOMA. It was noted that there is pressure from agencies to use other facts. It is clear that surplus time and this is dictated by hard financial problems lead to user constituency on the east coast. Institute appears to be a greater user constituency on the east coast. Underfunded for science by other agencies." Barber offered there underequipped "we're underfunded for ships, not science, i.e. work. M. Johnstone offered "we cause it couldn't be there to do her she couldn't have T. G. THOMPSON because it couldnt be there to do her work. It was noted Dr. Hickley's program was not easy to schedule, and that Dr. Patterson's reply was distributed and indicates his concern.

to sustain more land-based work. Last three years has been primarily for land-based research. He felt with more data being generated per day at sea nowadays that it tended at Guan in hopes of Andaman Sea work. He mentioned NNR support for Dr. Knowlin—not considered Scripps, work. T. WASHINGTON is laid up a chunk "off the top". He noted MELVILLE was used by CUEA under offering didn't permit them to go to sea at the required level. He funding also keeps their vessels occupied, but their sea-going staff at OSU to keep their vessels occupied, but their

Dr. Fisher also responded verbally. He feels there is enough meeting, letters were sent to Drs. Kellner (OSU), Fisher (SIO), and Ratteau (U. Wash.) requesting background information. In OSU's case, it appears to Dr. Kellner, new on the scene, that surplus R/V time results from a shift from block-funding to non-block-funding.

9. West Coast R/V Time. As a result of the September A/C meeting, letters were sent to Drs. Kellner (OSU), Fisher (SIO), and Ratteau (U. Wash.) requesting background information. In OSU's case, it appears to Dr. Kellner, new on the scene, that surplus R/V time results from a shift from block-funding to non-block-funding.

8. Election. Sec. Elect. As the Charter is unclear as to procedure, the Secretary distributed an outline for comment. A history of what had transpired seemed called for and will be presented for use by a subcommittee headed by Dr. Gross, with Drs. Dugdale and Webster, which will report to the A/C February meeting.

7. Evolving Role of A/C. Discussion related somewhat to the previous item. It was then voted to go into executive session.

report to Dr. Gross, subcommittee on membership.

Figure 1. A schematic diagram of the model system. The dashed line is the boundary between the two media.

Figure 2. The effect of the angle θ on the total transmission coefficient T_{tot} . The solid line is the theoretical prediction and the open circles are the numerical results.

Figure 3. The effect of the angle θ on the reflection coefficient R_{tot} . The solid line is the theoretical prediction and the open circles are the numerical results.

Figure 4. The effect of the angle θ on the transmission coefficient T_{tot} for $\lambda = 10 \mu\text{m}$. The solid line is the theoretical prediction and the open circles are the numerical results.

Figure 5. The effect of the angle θ on the reflection coefficient R_{tot} for $\lambda = 10 \mu\text{m}$. The solid line is the theoretical prediction and the open circles are the numerical results.

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Figure 12. The effect of the angle θ on the transmission coefficient T_{tot} for $\lambda = 0.5 \mu\text{m}$. The solid line is the theoretical prediction and the open circles are the numerical results.

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- were set up as follows to review and plan for 1978, 1979, 1980.
- 10.2 East Coast, to be organized by Dr. Frankenberger 21 January 1977
1977 probability in No. Carolina. To include Gulf Coast. Special address to problem of accommodating seasonal studies.
- 10.3 West Coast, to be organized by Dr. Kellie 31 January 1977, Seattle. Attendees: U. of Alaska, OSU, U. of Washington, MML.
- 10.4 Multi-ship operators with agencies, to be organized by Dr. Kellie 24 February 1977, Washington, DC, at NSF. List of invitees would include, but not limited to:
- U. of Hawaii
 - LDGO
 - U. of Miami
 - O.S.U.
 - S.I.O.
 - Texas AgM
 - U.R.I.
 - U. of Washington
 - W.H.O.I.
11. LOS Workshop, Wooster, Knauss Mtg. The recommendations developed in the report "Workshop on Problems of Scientific Operations in the 3rd UN LOS Conf." (Miami, Jan. '76) were available as well as Dr. Wooster's paper "Possible Action by U.S. Oceanographic Institute to facilitate their conduct of Marine Sciences as well as Dr. Wooster's suggestion a delay in such a meeting until fall of 1977, after the next LOS session. In this way, old ground would be avoided.
- After discussion, it developed that Dr. Wooster would write to Dean Knauss suggesting a delay in such a meeting until fall of 1977, after the next LOS session. In this way, old ground might be avoided.
- An Subcommittee to be headed by Dr. Wooster, with Capt. Treadwell, Messrs. Erd and Stetson with possibly a representative from a data depository, was formed to study UNOLS, adoption, in whole or in part, the Workshop recommendations.
12. Next Meeting was set for February 24-25, 1977, in Washington, DC, at NSF. Note first day has been committed to ship forecasting.
- 13.1 Other Business. Mr. Johnde introduced Newsletter #7 dated 28 October 1976, copy appended.
- 13.2 Also mentioned was an upcoming study of IDOE. It is not an audit. Harbridge House's study of IDOE.



UNOLS
Executive Secretary
Thomas Stetson

✓ 200

The Advisory Council would like to express thanks and appreciation to Capt. R. P. Dinsmore, who has served as Executive Secretary for UNOLS since inception. We wish him fair winds in his new position at Woods Hole.

ACKNOWLEDGMENT

The meeting adjourned at 1500.

13.4 Nominating Committee for candidates to replace Drs. Duigdale and Kellie for 3 year terms will be appointed by Dr. Wooster. The Secretary shall prepare a list of past A/C members for his use. A letter should be written to operators and non-operators requesting names, with attention to geographic spread.

13.3 She spoke of recent legislation passed re committees in Washington which encompasses any committee advising the government.



1. Accept Minutes of last meeting.
 2. Adopt agenda for this meeting.
 3. Discussion of Frankenberg Letter to Dugdale re UNOLS, dated 7 Sept. 76.
 4. Discussion of whether EASTWARD continues as an NPF.
 5. UNOLS' use of the UNOLS Fleet.
 6. Role of Associate Members: Clarify election procedures, admission additional input on this item.) criteria, and voice in meetings. (By meeting time we hope to have
 7. The evolving role of the Advisory Council with respect to the Members, associate members, and the granting agencies.
 8. Recommend an election procedure for Executive Secretary to be voted on by Annual Meeting.
 9. Surplus R/V time: A west coast phenomena. (By meeting time, we hope to have backlog developed from Oregon, Scripps, and Washington.)
 10. Long range and geographic ship scheduling procedures.
 11. Discussion of recommendations developed by "Workshop on Problems of Miami) (Pages 1-8 are included here)
 12. Set time/date for next meeting.
 13. Any other business that may properly be acted on.
- Note: Luncheon will be provided December 6th. Luncheon on December 7th is open.
- *Tel. No. near conference room (714) 452-2102

DRAFT AGENDA

Bldg. T-29*, S.I.O., LaJolla, California
0830 December 6-7, 1976
Advisory Council Meeting

UNOLS Office
Woods Hole Oceanographic Institution
Woods Hole, Massachusetts 02543

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

UNIVERSITY-NATIONAL OCEANOGRAPHIC LABORATORY SYSTEM

ADV. COU



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Dr. Dugdale will write a letter to Mr. Trabant requesting information on the proposed schedule and funding for the next

Upshot: Dr. Wooster will write a letter to Mr. Trabant, President, which will quote charter and also address their exact request on p. 12.

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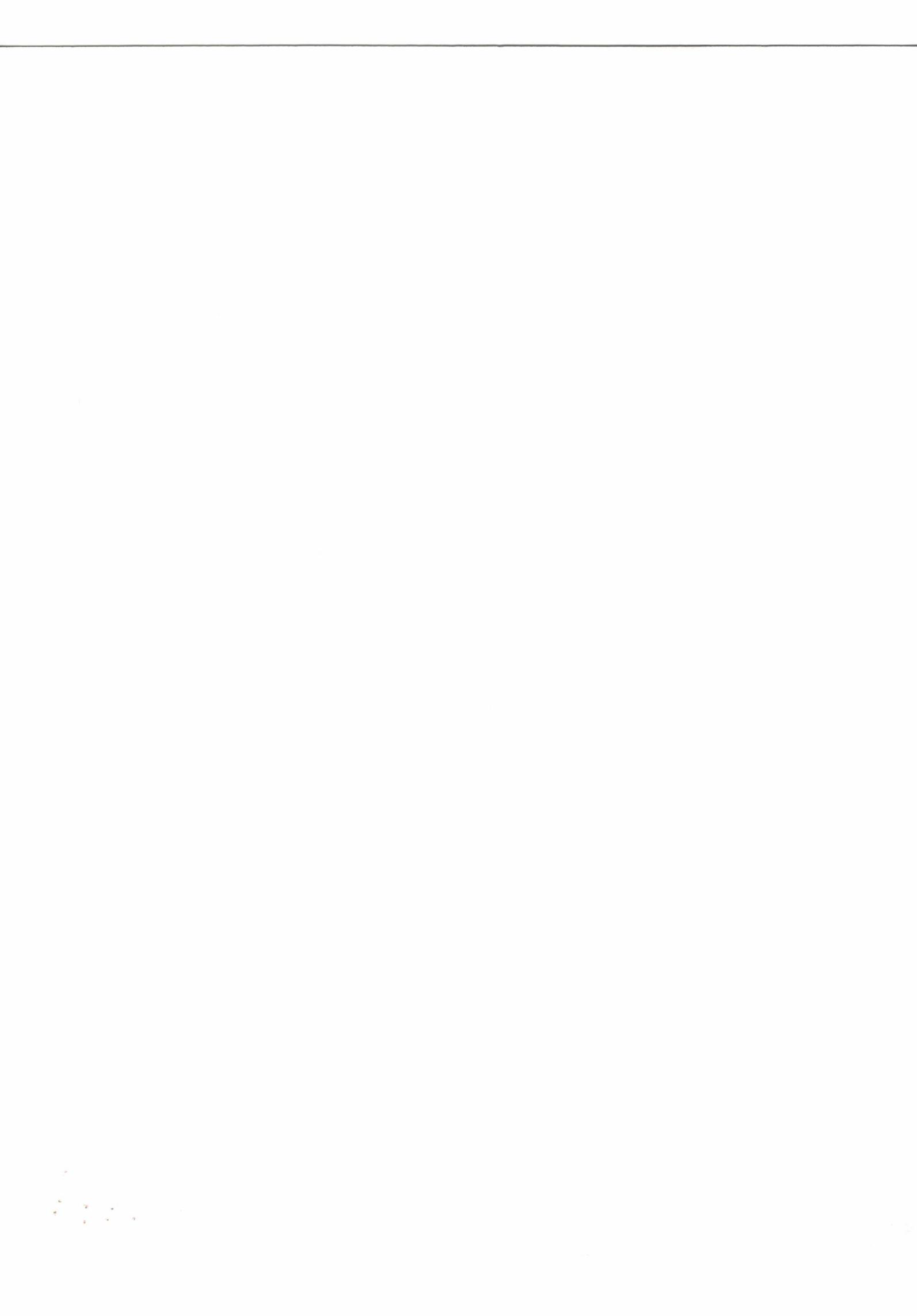
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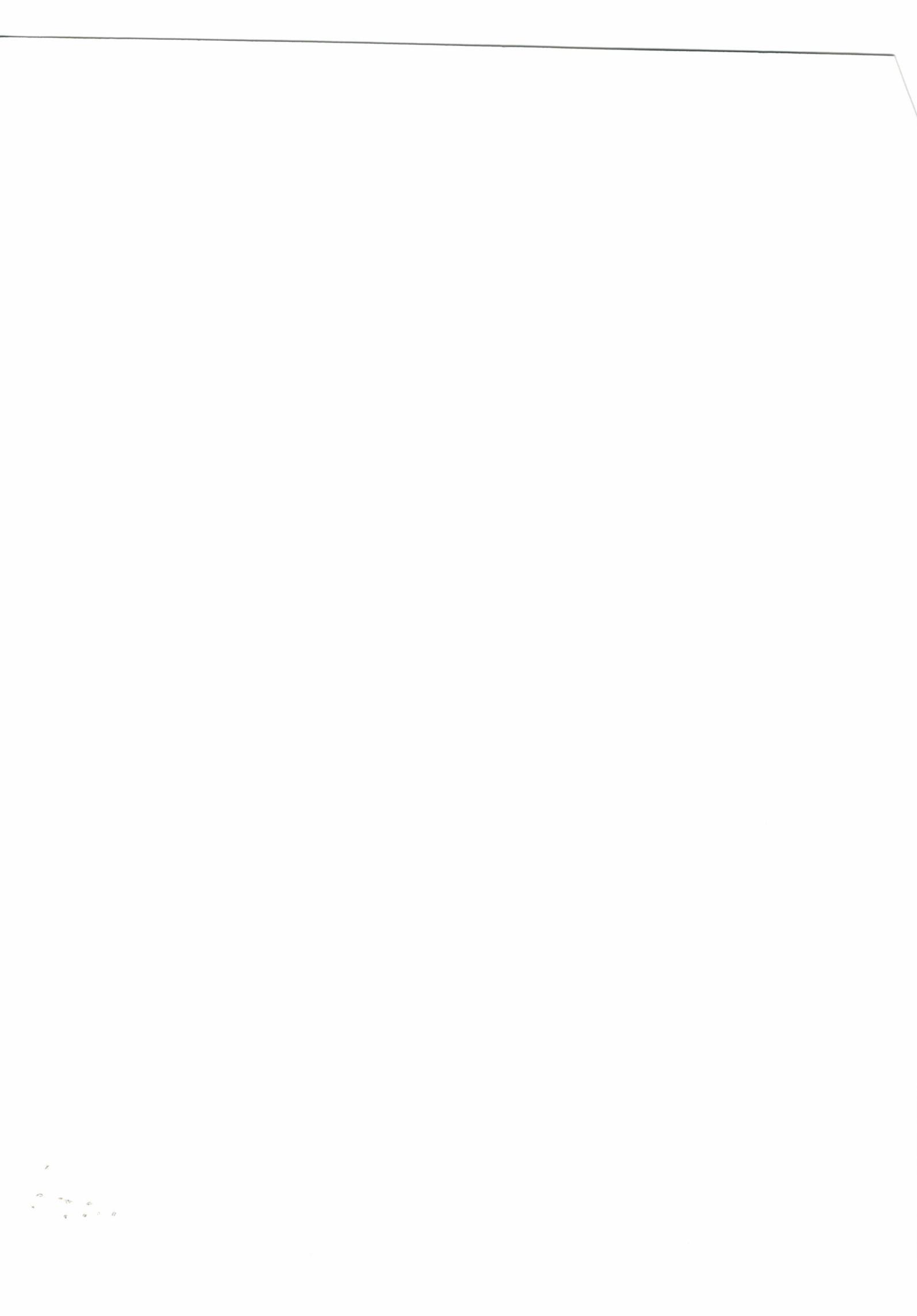
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UNOLS
Executive Secretary
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