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UNITED NATIONS EDUCATIONAL,  
SCIENTIFIC AND CULTURAL ORGANIZATION

INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION

SUMMARY REPORT OF THE PROGRAMME COMMITTEE  
FOR THE SECOND INTERNATIONAL OCEANOGRAPHIC CONGRESS

(Second Meeting, Moscow, 1 - 3 February 1966)

The meeting opened at the Presidium of the Academy of Sciences of the USSR, Moscow, at 10h.00 on 1st February 1966.

Present at the meeting were:

Academician A.P. Vinogradov (USSR) - Chairman, Arrangements and Programme Committees

Professor T. Braarud (SCOR)

Professor H. Lacombe (IOC)

Dr. K.N. Fedorov (UNESCO)

Dr. M. Ruivo (ACMRR)

Dr. M.E. Vinogradov (USSR) - Secretary, Arrangements Committee

Dr. I.M. Belousov (USSR) - Assistant Secretary, Arrangements Committee

Professor L.A. Zenkevich (USSR)

Dr. A.S. Monin (USSR)

Mr. V.V. Vakhrushev - USSR National Commission for Unesco

Mrs. V. Aivasova - USSR National Commission for Unesco

After a short speech of welcome by Academician A.P. Vinogradov, the Committee approved the agenda for the meeting as follows:

1. Adoption of the Agenda.
2. Information on the progress to date of the Congress preparations and Circular No.2.

3. Discussion of the general procedures of the Congress (opening and closing, etc.).
4. Approval of the plan for meetings of sections, sub-sections and symposia, and of the Congress timetable.
5. Approval of the candidacies for chairmen of plenary sessions, chairmen of sections, sub-sections and symposia.
6. Meetings and symposia being organized in Moscow by other international organizations at the time of the Second International Oceanographic Congress.
7. Some general questions related to the Congress.

## Item 2

Following adoption of the Agenda, Academician Vinogradov gave briefly some information about the work accomplished by the Arrangements Committee. The major points of his report were:

The Information Circular No.2 was expected to be printed and ready for distribution on 5 February 1966.

	<u>From USSR</u>	<u>From other countries</u>
Total number of papers received:	316	361
Total number of papers selected:	148	336
Total number of papers to be presented		484

Two volumes of preprints are being compiled and will be submitted to printers on 10 February: one volume in Russian, and one volume in English, French and Spanish, each volume comprising about 400 pages. The considerable work of translating about 150 abstracts from Russian into English and from English, French and Spanish into Russian, has been accomplished.

It is expected that approximately 1000 scientists will come to the Congress from abroad and that about 800 scientists from the USSR might attend.

The Arrangements Committee consists now of about seven full-time employees and about twenty volunteers assisting in various fields.

A certain number of new arrangements were agreed on by the responsible authorities and are outlined in Circular No.2. Among these:

- a) Accommodation of participants by "Intourist" according to the "Business Tour" category (class "C") at \$6.00 a day, including breakfast, hotel and transportation to and from the airport.
- b) Visits of research vessels to Leningrad and Odessa.
- c) Excursions after the Congress, at participants' expense, to Leningrad, the Black Sea and Lake Baikal (on choice).

Considerable discussion followed on the time and mode of distribution of Circular No.2. The Programme Committee recommended that the circular be despatched as soon as possible according to the list of participants established by Unesco, (The Programme Committee appealed to Unesco to speed up as far as possible transmittal of this list to the Arrangements Committee) and accompanied by a covering letter which will constitute an individual invitation, as specified in the contract between Unesco and the USSR. 50 copies of this circular should be given to FAO and 100 copies to Unesco for limited distribution on request.

The Programme Committee also considered that the provisional estimate of the number of participants as 500, according to the above contract, should not be considered as a limiting one. The Committee welcomed the Contractor's intention to accommodate up to 2000 participants.

### Item 3

Academician Vinogradov informed the Committee that the opening ceremony would take place in the Great Hall of Moscow State University at 15h.00 on May 30, 1966.

After a short discussion, the Committee decided that it would be desirable if the personalities listed below were to speak at the opening:

Chairman of the Arrangements Committee  
Representative of the USSR Academy of Sciences  
Representative of the Government of the USSR  
Director-General of Unesco  
Director-General of FAO  
President of SCOR  
Chairman of the IOC

In this connection, individual invitations to such persons (as well as to certain other executive heads of major international organizations in the field of oceanography) should be sent as soon as possible by the Arrangements Committee.

The closing ceremony of the Congress will take place at the Kremlin Palace of Congresses. In view of the purely scientific character of the meeting, no decisions or recommendations will be formally adopted. However, it would be desirable if the Congress were to record its view as to the most appropriate time interval before the Third International Oceanographic Congress. Expression of this view might be facilitated greatly by prior consideration of this matter by the IOC Bureau at its Sixth Meeting with the Consultative Council (May 1966, Paris). Therefore the Programme Committee decided to ask the IOC Bureau to consider this matter and to communicate its opinion to the Congress.

At the closing ceremony representatives from the four major sections of the Congress will summarize the work accomplished by each section.

#### Item 4

Academician Vinogradov informed the Committee that, in order to accommodate the 500 papers selected for the Congress (twice the original estimation), it was found necessary to sub-divide the four major sections of the Congress into sub-sections. During the full sectional meetings - each section will have two such meetings - fifteen minutes will be given for presentation and five minutes for discussion of each paper. During sub-sectional meetings, ten minutes will be available for presentation and five minutes for discussion of each paper. Twenty minutes at the end of each sectional and sub-sectional meeting will be allowed for general discussion.

In connection with the timetable of the Congress prepared by the Arrangements Committee, the question of interpretation facilities was discussed in detail. The Programme Committee recognized that it would be impossible to serve six concurrent sub-sectional meetings (in six rooms) with simultaneous interpretation and that consecutive interpretation even in one language (e.g. English) would slow down the work and would not permit accommodating the number of papers presented.

The Programme Committee therefore welcomed the intention of the Arrangements Committee to select for sub-sectional meetings such papers as can be presented by their authors in English. Printed abstracts of papers will facilitate understanding. The Arrangements Committee will also select multilingual Russian scientists to help in the work of sub-sections. The consecutive interpretation of general discussions at sub-sectional meetings will be provided by official interpreters.

In compensation, full sectional meetings and morning plenary sessions will enjoy synchronous interpretation in all four languages (E,F,S,R).

Several briefing sessions for interpreters will be organized in advance.

The Programme Committee agreed to reserve time on 9 June for a meeting of a section having as title "Miscellaneous papers". Papers from scientists from developing countries and other major papers (up to a total number of nine) submitted with delay, will be presented there.

Selection of these papers will not, however, be finalized till the last moment and will be announced only at the opening. In any case, preference will be given to papers on training of oceanographers so that discussion on this topic may be organized. No abstracts of these papers will be printed.

The Programme Committee proposed to interchange certain papers between sub-sections and sections. This was accepted by the Committee and it was decided that proposals to this effect should be submitted in written form to the Arrangements Committee, which will take the final decision thereon.

The Committee discussed at length the prospects of a symposium on "Biology of Upwelling Areas" for which only three papers were submitted. It was finally decided to accept an offer from Dr. R. Currie (National Institute of Oceanography, U.K.) to act as a convenor of this symposium and to solicit further papers (up to a total number of 16). The Committee also accepted an offer from FAO to print abstracts of these papers and to deliver 2000 copies of the brochure to the Arrangements Committee prior to the Congress. The Committee decided to change the title of this symposium to "Upwelling Areas: Physical and Biological Aspects".

The Programme Committee decided to change the title of the Section "Marine Geology and Mineral Resources" into "Marine Geology, Structure of the oceanic crust and upper mantle".

Considerable discussion followed on the number of meetings of the sub-section on "Near-shore processes". Professor Lacombe found this number too great and the field too specific. Therefore the Committee decided to group all the papers on the above subject in a separate symposium.

The Programme Committee decided to add two symposia to those which had already been approved by the first meeting of that Committee. Thus the full list of symposia to be organized during the Congress is as follows:

1. Bioacoustics.
2. Biogeochemistry.
3. Upwelling areas; physical and biological aspects.
4. Oceanographic instruments, tools and carriers.
5. Primary production.
6. Radio-ecology and radio-activity of the ocean.
7. Near-shore processes.

#### Item 5

Following a proposal by the Arrangements Committee, it was decided by the Programme Committee to replace Dr. Budyko (USSR) as one of the main lecturers and to approach Professor Sheppard (UK) or Dr. Charnock (UK) asking their agreement to prepare a lecture on "Small-scale air-sea interaction".

The Programme Committee approved the choice of two additional lecturers for morning sessions: Dr. Kesteven (Australia) and Professor Isakov (USSR).

The following scientists were selected by the Programme Committee as Chairmen of the six morning plenary sessions:

31/V	Acad. A.P. Vinogradov (USSR)	Opening Session
1/VI	Dr. B. Saint-Guily (France)	4 papers "Ocean and Atmosphere" "Ocean and Life"
2/VI	Prof. L.A. Zenkevich (USSR)	4 papers "Ocean and Life"
3/VI	Prof. R. Revelle (USA)	4 papers "Marine Geology"
4/VI	Dr. W.M. Cameron (Canada)	4 papers "Geochemistry, Suspended Matter, Distribution of Fishes"
6/VI	Dr. G.F. Humphrey (Australia)	4 papers "Oceanography of the Indian Ocean and Antarctic"

The Programme Committee devoted considerable time and care to selecting appropriate personalities to act as chairmen during the meetings of sections, sub-sections and symposia. In so doing, the Committee tried to meet the criticism which was expressed by SCOR and IOC regarding selection of lecturers and endeavoured to ensure as wide as possible a geographical distribution of names selected, taking into account the special interests of each individual scientist concerned. The provisional list of participants to date was used as a basis for this selection.

The timetable of the meetings, sub-sections and symposia, with the suggested names of chairmen indicated, is given in Annex I.

The Programme Committee reacted favourably to the suggestion of the Arrangements Committee that it would be convenient to have Russian scientists as convenors of the above meetings in most cases. Some convenors' names are also given in Annex I.

Dr. R. Currie, who was appointed as convenor for the symposium on "Upwelling areas", will be asked to make a suggestion as to a personality who might act as chairman for the meeting of the "Upwelling" symposium on 9 June.

Item 6

The following meetings will be held in Moscow by various international bodies outside the framework of the Congress but approximately at the same time :

1. IAPO Symposium on Numerical Methods in Physical Oceanography (Mathematical-Hydrodynamical treatment of motion in the sea).
2. Meeting organized by the IUGS Sub-Commission for the World Tectonic Map "On the principles and methods of tectonic regionalization of the oceans".
3. Meeting of the International Association of Biological Oceanography of the IUBS.
4. Working Group No. 19 of SCOR on Micropalaeontology of Marine Sediments.
5. IAPO Symposium on Deep-Sea Tides.

The Programme Committee recommended arranging an information lecture by Dr. Cox (NIO) on the New Oceanographic Tables and asked Dr. Fedorov to approach him on this matter.

Item 7

The Committee was informed by both Unesco and the Arrangements Committee about a large number of applications for financial support coming from individual scientists. Some general recommendations in this connection would be required to guide international agencies which might satisfy such applications.

The Committee felt that the requests to international bodies to provide financial support to scientists for attending the Congress should emanate from convenors of meetings and symposia.

Lists of papers and of convenors will be transmitted to the international organizations concerned. These organizations might then correspond with convenors with the purpose of soliciting recommendations and will make clear with each candidate for support whether or not they are given national funds.

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On behalf of the Programme Committee, Professor Lacombe expressed the Committee's appreciation of the work accomplished by the Arrangements Committee in preparing the Congress, and thanked the Academy of Sciences of the USSR for the excellent facilities and hospitality which it had so generously provided to the Programme Committee.

AFTERNOON MEETINGS OF SECTIONS, SUBSECTIONS AND SYMPOSIA

Section: OCEAN AND ATMOSPHERE

1st full meeting, Tuesday, 31 May

Chairman: D. Bjerkn s (USA)

Convenor: A.S. Monin (USSR)

2nd full meeting, Tuesday, 7 June

Chairman: R. Dorrestein (Netherlands)

Convenor: A. Dobrovolski (USSR)

Subsections:

THEORY OF CURRENTS

1st meeting, Wednesday, 1 June

General problems

Chairman: L.R.A. Capurro (Argentina)

Convenor: V. Kamenkovich (USSR)

2nd meeting, Thursday, 2 June

Mixing processes

Chairman: K. Hidaka (Japan)

Convenor: V. Kamenkovich (USSR)

3rd meeting, Friday, 3 June

Variability with time; influence of  
bottom relief

Chairman: H.B. Stewart (USA)

Convenor: V. Kamenkovich (USSR)

4th meeting, Monday, 6 June

Calculations and forecasts

Chairman: G.E.R. Deacon (UK)

Convenor: V. Kamenkovich (USSR)



Wednesday, 1 June

HYDROGRAPHY OF THE ATLANTIC OCEAN

Chairman: V. Voigt (GDR)  
Convenor: B. Tareev (USSR)

TIDES, INTERNAL WAVES, TSUNAMIS

Chairman: K. Yoshida (Japan)  
Convenor:

Thursday, 2 June

SURFACE WAVES

Chairman: E. Bruns (GDR)  
Convenor:

HYDROGRAPHY OF THE NORTHERN PARTS  
OF THE ATLANTIC OCEAN AND MEDITERRANEAN SEA

Chairman: H. Lacombe (France)  
Convenor: B. Tareev (USSR)

Friday, 3 June

HYDROGRAPHY OF THE PACIFIC OCEAN

Chairman: J.P. Tully (Canada)  
Convenor: B. Tareev (USSR)

HYDROGRAPHY OF THE BALTIC SEA

Chairman: I. Hela (Finland)  
Convenor:

Monday, 6 June

HYDROGRAPHY OF NORTHERN SHELVES

Chairman: G. Dietrich (FRG)  
Convenor:

HYDROGRAPHY OF THE POLAR OCEAN BASIN

Chairman: C.R. Mann (Canada)  
Convenor:

Section: OCEAN AND LIFE

1st full meeting, Wednesday, 1 June

Chairman: M. Fontaine (France)  
Convenor: Z.A. Filatova (USSR)

2nd full meeting, Monday, 6 June

Chairman: T. Wolff (Denmark)  
Convenor: L.G. Vinogradov (USSR)

Subsections:

Tuesday, 31 May

TROPHIC RELATIONS IN THE PELAGIC  
ENVIRONMENT LOWER TROPHIC LEVELS

Chairman: R. Margalef (Spain)  
Convenor:

SHALLOW WATER BOTTOM FAUNA

Chairman: D.G. Crisp (UK)  
Convenor: A. Neiman (USSR)

PELAGIC AND BOTTOM ALGAE

Chairman: T. Braarud (Norway)  
Convenor: Blinova (USSR)

Thursday, 2 June

MARINE ICHTHYOFAUNA

Chairman: L. Bertelsen (Denmark)  
D. Guitart (Cuba) (reserve)  
Convenor: N.V. Parin (USSR)

BOTTOM FAUNA

Chairman: K. Demel (Poland)  
Convenor:

TROPHIC RELATIONS IN THE PELAGIC  
ENVIRONMENT: SECONDARY PRODUCERS

Chairman: T. Vucetic (Yugoslavia)  
Convenor: T. Petipa (USSR)

Friday, 3 June

CHEMISTRY OF THE SEA

Chairman: F. Koroleff (Finland)  
Convenor: A.N. Bogojavlenski (USSR)

PELAGIC FAUNA. GENERAL PROBLEMS.  
PLANKTON AS AN INDICATOR OF WATER MASSES.

Chairman: M. Vannucci (Brazil)  
Convenor: K. Becklemishev (USSR)

TROPHIC RELATIONS OF THE BOTTOM FAUNA

Chairman: R. Menzies (USA)  
Convenor: A. Nejman (USSR)

Tuesday, 7 June

DEEP SEA BOTTOM FAUNA

Chairman: K. Parker (USA)  
Convenor: A. Nejman (USSR)

PELAGIC FAUNA

Chairman: B. Kimor (Israel)  
Convenor: K. Becklemishev (USSR)

CHEMISTRY OF THE SEA

Chairman: L.H.N. Cooper (UK)  
Convenor: A.N. Bogojavlenski (USSR)

Section: MARINE GEOLOGY, STRUCTURE OF THE OCEANIC CRUST  
AND UPPER MANTLE

1st full meeting, Thursday, 2 June

Chairman: A.S. Laughton (UK)  
Convenor: G. Udintsev (USSR)

2nd full meeting, Friday, 3 June

Chairman: A.G. Segre (Italy)  
Convenor: G. Udintsev (USSR)

Subsections:

GEOPHYSICAL INVESTIGATIONS;  
TECTONICS AND GEOMORPHOLOGY

1st meeting, Tuesday, 31 May

Chairman: V.V. Belousov (USSR)  
Convenor: A.V. Zhivago (USSR)

2nd meeting, Wednesday, 1 June

Chairman: M. Hoshino (Japan)  
Convenor: A.V. Zhivago (USSR)

3rd meeting, Monday, 6 June

Chairman: J.W. Brodie (New Zealand)  
Convenor: A.V. Zhivago (USSR)

SEDIMENTATION

1st meeting, Tuesday, 31 May

Deep-sea sediments

2nd meeting, Wednesday, 1 June

Marine sediments and suspended matter

Chairman: E..Seibold (FRG)  
Convenor: A.P. Lisitzin (USSR)

3rd meeting, Monday, 6 June

Marine sediments and stratigraphy

Chairman: B. Kullenberg (Sweden)  
Convenor: A.P. Lisitzin (USSR)

Tuesday, 7 June

MARINE OPTICAL AND ACOUSTIC INVESTIGATIONS

Chairman: N. Jerlov (Denmark)  
Convenor:

Section: OCEANOGRAPHY OF THE INDIAN OCEAN AND ANTARCTIC

Tuesday, 7 June

Chairman: N.K. Panikker (India)

Subsections:

Wednesday, 8 June

PHYSICAL OCEANOGRAPHY OF THE INDIAN OCEAN

Chairman: K. Wyrтки (USA)

BIOLOGY AND CHEMISTRY OF THE INDIAN OCEAN

Chairman: J. Krey (FRG)

MARINE GEOLOGY OF THE INDIAN OCEAN

Chairman: H.W. Menard (USA)

SYMPOSIA

1. BIOGEOCHEMISTRY

Wednesday, 8 June

Chairman: B. Ketchum (USA)

Convenor: Ronov (USSR)

Thursday, 9 June

Chairman: F. Koczy (USA)

Convenor: Ronov (USSR)

2. BIOACOUSTICS

Wednesday, 8 June

Chairman: E.G. Barham (USA)

Convenor: J. Bary (Canada)

SYMPOSIA continued..

3. RADIOLOGY AND RADIOACTIVITY  
OF THE OCEAN

Wednesday, 8 June

Chairman: J. Joseph (IATA)  
Convenor: G. Polikarpov (USSR)

Thursday, 9 June

Chairman: S. Keskes (Yugoslavia)  
Convenor: G. Polikarpov (USSR)

4. UPWELLING AREAS: PHYSICAL AND  
BIOLOGICAL ASPECTS

Wednesday, 8 June

Chairman: M. Uda (Japan)  
Convenor: R. Currie (UK)

Thursday, 9 June

Chairman: To be proposed by R. Currie  
Convenor: R. Currie (UK)

5. OCEANOGRAPHIC INSTRUMENTS,  
TOOLS AND CARRIERS

Tuesday, 7 June

Chairman: A.S. Monin (USSR)  
Convenor: B. Shakhvatov (USSR)

Wednesday, 8 June

Chairman: A. Vine (USA)  
Convenor: B. Shakhvatov (USSR)

Thursday, 9 June

Chairman: D.J. Tranter (Australia)  
Convenor: B. Shakhvatov (USSR)

SYMPOSIA continued..

6. PRIMARY PRODUCTION

Tuesday, 7 June

Chairman: Steemann-Nielsen (Denmark)  
Convenor: O. Koblentz-Mishke (USSR)

Wednesday, 8 June

Chairman: M. Doty (USA)  
Convenor: O. Koblentz-Mishke (USSR)

Thursday, 9 June

Chairman: Ichimura (Japan)  
Convenor: O. Koblentz-Mishke (USSR)

7. NEAR-SHORE PROCESSES

Tuesday, 31 May

Chairman: V.P. Zenkovich (USSR)  
Convenor: P. Kaplin (USSR)

Wednesday, 1 June

Chairman: H. Schoemacher (Netherlands)  
Convenor: P. Kaplin (USSR)

Monday, 6 June

Chairman: R. Bonnefille (France)  
Convenor: P. Kaplin (USSR)

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