

REPORT ON SCOR WORKING GROUP 37
MARINE PLANKTON AND SEDIMENTS

Meeting in Montreal, 31 August - 1 September 1972

The Working Group held its first meeting in Montreal, August 31 - September 1, 1972. Participants were: BE, BOLLI, FUNNELL, RIEDEL, SEIBOLD (Chairman), and TAKANAYAGI; J.D. HAYS as an observer. Written and oral comments were sent by JOUSE, BERGER, and SCHRADER.

After discussion of the new advances mentioned in the revised terms of reference (SCOR Proceedings, vol. 8, no. 1) WG 37 recommends that the planned symposium in Kiel University (first half of September 1974) should consist of three parts:

- (1) Meetings of consultant groups; (2) Invited lectures; (3) Shorter contributions to the "3rd Planktonic Conference".

We recommend that the language should be English. Discussion in other languages should be translated into English by colleagues.

Provisional Program

1. Meetings of consultant groups

It is proposed that about 6 - 12 researchers of each of 6 different planktonic organism groups should meet in Kiel during three days preceding the presentation of lectures.

(a) To discuss such topics as "High Level Taxonomic Systems", "Standardisation of Species Identification", "Shell Formation", "Stratigraphic Correlation", "Data Processing and Analysis".

(b) To comment on manuscripts of appropriate invited papers; these comments to be added to the planned symposium volume.

(c) To prepare summaries of their activities, recommendations, etc., for presentation at the symposium and for inclusion in the planned symposium volume.

The following consultant groups were suggested:

Planktonic Foraminifera, Pteropods, Radiolarians, Diatoms + Silicoflag,
Dinoflagellates, Coccoliths.

2. Invited lectures

Invited lectures on the following topics are suggested (45 minutes each):

- A. Biogeography
(1) Oceanographic Factors Influencing the Distribution of Plankton in Space and Time
(2) Factors Determining Diversity and Dominance in Planktonic Foraminifera
- B. Microfossils in Deep Sea Sediments
(3) Mechanical Processes Influencing the Distribution of Pelagic Sediments
(4) Processes Controlling Calcareous Biogenous Deposits
(5) Processes Controlling Siliceous Biogenous Deposits
(6) Quaternary Paleo-ecological Problems in Plankton

- C. Biogeography and Evolution of Plankton in Cenozoic and Mesozoic Deep Sea Sediments
 - (7) Cenozoic and Mesozoic Pelagic Sediment Distribution Patterns
 - (8) Diagenesis in Pelagic Sediments
 - (9) Occurrence and Causes of Major Hiatuses in Pelagic Sediments
 - (10) Problems in Neogene and Paleogene Correlations based on Planktonic Microfossils
 - (11) New Information on Cenozoic Planktonic Biogeography and Evolution
 - (12) Biogeography of Mesozoic Planktonic Foraminifera
 - (13) Late Mesozoic and Cenozoic Isotope Paleotemperatures
- D. New Results from Plankton Groups
 - (14) Results of Consultant Group Meetings
 - (15) Evolutionary Studies in Cenozoic Radiolarians
 - (16) Cenozoic Diatom Stratigraphy
 - (17) Paleo-Ecology, Preservation and Stratigraphy of Cenozoic Calcareous Nannoplankton
- E. General Methods
 - (18) Probability Stratigraphy
 - (19) Integration of Biostratigraphical Information from Numerous Sequences
 - (20) Statistical Paleo-Ecology
 - (21) Physical Methods in Dating Pelagic Sediments

3. Shorter Contributions

As in the 2nd Planktonic Conference this part should be open for non-invited speakers. Probably parallel sessions would be necessary.

4. Time Table

Thursday - Friday - Saturday: 9 - 12/14 - 18 meeting of consultant groups
 Sunday: Preparation of summaries
 Monday - Friday: 08.30 - 10.30 Invited lectures
 11.00 - 13.00 Invited lectures
 14.30 - 15.30 Demonstrations: Exchange, examination and discussion of materials in university laboratories
 15.30 - 19.00 Shorter contributions, partly parallel sessions

5. Publication

(a) Abstracts of invited and non-invited lectures should be available at the beginning of the symposium.

(b) Preprints of invited lectures should be available to members of WG 37, the other invited lecturers and consultant groups 3 months before the symposium.

(c) Revised manuscripts, together with important comments on the invited lectures and group summaries should be available not later than 2 months after the symposium. These manuscripts (but not the shorter contributions) are planned to be published in a symposium volume of 300 - 400 pages, illustrations included. The non-invited papers should be published in appropriate journals.

6. Deadlines

We plan to send a first circular, as an announcement, in February 1973.

- (1) to interested colleagues on our list of active workers

- (2) to national committees of SCOR and IUGS
- (c) to other interested international organizations (IABO, IGCP, etc.)

The second circular which will include a preliminary program - with names of speakers for invited lectures - and registration forms, will be sent in October 1973. Abstracts for papers have to be sent to Kiel up to April 1, 1974. The third circular will contain the final program, final registration, etc., and will be circulated in May 1974.

7. Finances

At the moment uncertain, because they depend to a high degree on acceptance of invited speakers and consultant group chairmen. Estimated: Slightly higher than Cambridge-Symposium SCOR WG 19, 1967.

8. Final Remarks

We expect the symposium will provide a major opportunity to synthesize results of the Deep Sea Drilling Project and very significant micropaleontological work on ocean sediments undertaken since 1967.

ANNEX X

REPORT ON IAPSO EXECUTIVE COMMITTEE MEETING

Edinburgh, 19-20 September 1972

1. The IAPSO Procès-Verbaux No. 11, pertaining to the General Assembly held in Tokyo, has been issued and Procès-Verbaux No. 12, pertaining to the General Meeting in Moscow, is being distributed to all National Correspondents, committee members, and officers of associated organizations.
2. IAPSO Symposia
 - (a) Aspects of Optical Oceanography, Copenhagen, 19-20 June 1972, was convened by Professor Nils Jerlov.
 - (b) Contributions of Deep-Sea Drilling to Geology, (sponsored by IUGS and IUGG) was convened by Drs. M.N.A. Peterson and B.C. Heezen, in Montreal, 23-24 August 1972.
 - (c) Physical Oceanography of the Red Sea, (sponsored by UNESCO and SCOR) was convened by Professors H. Lacombe and P. Tchernia in Paris, 9-10 October 1972.
3. The newly formed ad hoc Working Group on Ocean Optics held its first meeting in Copenhagen, 23 June 1972. The core members attending were:
 - N.G. Jerlov (chairman)
 - A. Ivanoff
 - Yu.E. Ochakovsky
 - J.E. TylerCo-opted members were:
 - G. Kullenberg
 - A. Morel
 - R.C. Smith
 - R.V. Zaneveld
4. IAPSO Representatives/Observers at Meetings
 - (a) Dr. A.E. Gilmour represented IAPSO at the International Symposium on the Oceanography