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RESULTS OF INTRA-SECTIONAL SYMPOSIUM S.04.2.12. — STRATIGRAPHIC CORRELATIONS IN THE NEOGENE AND RESOLUTIONS OF GLOBAL NEOGENE BUSINESS MEETING ON THE 26th INTERNATIONAL GEOLOGICAL CONGRESS IN PARIS 1980



Резюме: В рамках 26-ого Международного Геологического Конгресса в 1980 г. в Париже осуществились Симпозиум № S.04.2.12 „Стратиграфическая корреляция в неогене“, как и Заседание по решению организационных проблем исследования мирового неогена. Потому, что организатор, Я. Сенеш не принимал участие в этих заседаниях, заседаниями руководили Й. Е. Мойленкамп, Ф. Рёгл и Ф. Ф. Штеинингер. Было установлено, что в мировом масштабе региональные хроностратиграфические единицы неогена еще не достаточно определены и характеризованы. Поэтому, в интересах образования возможностей мировой корреляции неогена, определения его границ с палеогеном и четвертичной, необходимо, чтобы вновь активизированная Субкомиссия по неогеновой стратиграфии дала направление деятельности региональных комитетов неогена для ускоренного определения региональных ярусов, с возможностью их взаимной корреляции биостратиграфическими и физическими методами.

Minutes of Symposium

S.04.2.12. — Stratigraphic correlations in the Neogene.

(26. IGC — Paris, 1980 — 07 — 12)

1. *Oepning* by J. E. MEULENKAMP.

2. *Papers deliverd:*

POISSON, A., ORSZAG F.: Le Néogène en Méditerranée orientale; corrélations entre les bassins d'Antalaya-Chypre et Adana.

McCOY S. Jr.: Neogene biostratigraphy and correlations of the Eastern Gulf of Alaska.

IKEBE N., CHIJI M., HUANG. T. Y.: Important Datum-planes of the Western Pacific Neogene.

TSUCHI R., TAKANAYAGI Y., SHIBATA K.: Stratigraphic succession of Japanese Neogene events.

VEROSUB K. L.: Magnetostratigraphic correlation of some Neogene sequences in California.

3. *Discussion on Chronostratigraphic Stage concepts of the Neogene:* New Zealand: N. DE HORNIBROOK and D. G. JENKINS. The stage concept developed in the shallow water facies with a biostratigraphy based upon Molluscs and discordances, not existing in deeper basins. The stages defined by statotypes and boundary-stratotypes. The problem of world wide correlation has to be solved by physical methods. The stage between New Zealand and Australia are different, but for both regions the zonation of DSDP Leg 28 suitable.

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West Coast of North America: W. ADDICOTT, R. ALLISON, J. C. INGLE and S. MCCOY. California: Stage concept based on Kleinpell's foraminiferal stages, correlation with Mollusc stages. Oregon—Washington: Mollusc stages of Addicott. This concept transferred to Alaska. In general these so called stages not well defined, only partially with stratotypes. There exists no clear distinction between litho-, bio-, and chronostratigraphy.

[This meeting was continued within the first part of the Global Neogene Business meeting at 1980-07-15].

Japan — Taiwan: N. IKEBE. Stage concepts according to the Hedberg code, in progress. Up till now not confirmed by the RCPNS.

Indonesia — Indopacific: An updated correlation of the Letter Stages towards planctonic biozonation was discussed by G. BIZON.

Caribbean Area: Remarks sent by J. B. SAUNDERS were discussed by F. RÖGL.

Gulf — Coast and East Coast of America: No discussion.

North Sea Basin: A North-Sea stage concept has been re-activated by W. HINSCH. He tried to define holo- and boundary-stratotypes in wells. Their biostratigraphic definition was based on Molluscs. For correlations some isolated benthonic and planctonic foraminiferal and nannoplankton datums are used. The discussion revealed that disagreements exist on this kind of stage concept proposed by HINSCH without consulting IGCP Project No. 124.

Two contributions of Y. B. CLADENKOV were presented by academician V. V. MENNER on the Neogene of the Pacific and Atlantic.

The presentation of the Neogene stages was followed by a general discussion on the need of a clear Chronostratigraphic Stage Concept by R. ALLISON, N. DE HORNIBROOK, A. MARTINSSON, V. V. MENNER, J. E. MEULENKAMP, F. RÖGL, F. F. STEININGER and A. SALVADOR.

Minutes of Global Neogene Business Meeting (26. IGC — Paris, 1980 — 07 — 15)

1. *Opening* by J. E. MEULENKAMP.

2. *Proposed program*: a) Neogene stage concepts.
b) Subcommission on Neogene Stratigraphy.
c) „Global time correlation of Neogene events” a proposal (J. SENEŠ) for a new IGCP project.
d) Business meeting of ICS Working Groups and Regional Committees (Neogene).

The program was unanimously agreed upon.

3. *Scientific session*:

Neogene Stage Concepts: see Minutes of Symposium S.04.2.12. Out of the discussion of the Neogene stage concepts the need for the re-vitalisation of the Subcommission on Neogene Stratigraphy was clearly demonstrated.

Subcommission on Neogene Stratigraphy: A. MARTINSSON, Chairman of the ICS, remarked that this point raised above was put forward during the RCMNS Congress in Athens in 1979. For the IUGS meeting in Paris, J. SENEŠ — convenor of the Subcommission on Neogene Stratigraphy, presented a list of initial voting and corresponding members to the ICS Board: W. O. ADDICOTT [USA], G. BIZON [France], M. B. CITA [Italy], I. EL-HEINY (Egypt), M. A. FURRER [Venezuela], Y. B. GLADENKOV [USSR], W. HINSCH [GFR], J. E. VAN HINTE [The Netherlands], N. DE HORNIBROOK [New Zealand], N. IKEBE [Japan], V. A. KRASHENINNIKOV [USSR], J. E. MEULENKAMP [The Netherlands], A. SALVADOR [USA], J. SENEŠ [ČSSR], F. STEININGER [Austria]. Corresponding members: W. A. BERGGREN [USA], M. CHIJII [Japan], G. GWIRTZMAN [Israel], P. MEIN [France], K. V. NIKIFOROVA [USSR].

As Chairman of the Subcommission on Neogene Stratigraphy J. SENEŠ was put forward by ICS. Unanimously the auditory voted for the chairmanship of J. SENEŠ and approved the proposed membership list.

The auditory proposed to enlarge this list of members by e.g. S. McCOY, E. AGUIRRE, H. SCHALKE, B. MCGOWRAN, D. G. JENKINS. M. B. CITA was of the opinion that members should be chosen representing different scientific topics and countries involved. A. MARTINSSON and A. SALVADOR advised to stay with a rather small group and give the decision to the absent Chairman.

The post of Vice-chairman stays open. J. E. MEULENKAMP and F. F. STEININGER were asked to support J. SENEŠ during his recovery.*

Global Time Correlation of Neogene Events — proposal for a new IGCP project: A. MARTINSSON as representative of IGCP reported on the decisions concerning this project, proposed by J. SENEŠ: It should concentrate on more specific aspects. It should be possible to finish this project within 5 years. It has to have the official support of the most important countries as USA and USSR.

The discussion of the audience revealed a broad general interest in this project. Beside of scientific aspects special interest was stressed on the economic applications and benefits of such a project. However, to channel these efforts, only few topics should be the main task of the project, e.g. onset of „Antarctic and Arctic glaciation“, „Mid-Miocene events“ (as reviewed at the session by L. BURCKLE); „Global Sea-level changes“. And are there world wide Neogene events?

A new Global Neogene IGCP project, concentrating on restricted topics as discussed above would be promoted by most of the scientists present. W. ADDICOTT and D. BUKRY were asked to investigate the possibilities of such a project within the U.S. National Committee of IGCP.

4. *Project Meetings:*

W. G. on the Paleogene/Neogene Boundary: Report on activities within the period since its constitution by the Chairman F. F. STEININGER. Stratigraphically important sections have been studied in Northern Italy

* J. Seneš, originally organizer of the Symposium and of the Business meeting, would like to express thanks to the authors of this paper, that they have, in his absence, kindly represented him and led both the above mentioned meetings.

(Marche and Piemont) and Greece. The invitation on the next field-meeting in Romania [1980] has failed because of bureaucratic difficulties. It is hoped that this excursion will be organized the next spring. Other proposals of Spain and Southern Italy have been accepted. A study of the sections in Sicily was greatly appreciated by the audience.

The re-election of the Chairman F. F. STEININGER and the Secretary F. RÖGL by the members of the Executive Council was approved by the auditory. There was a strong opposition against the retirement of R. STAINFORTH.

Regional Committee on Mediterranean Neogene Stratigraphy: The election of the new Executive Council as proposed at the VIIth Congress in Athens [1979], has been approved unanimously by the present members of RCMNS. A series of Interim-Colloquia before the next Congress have been proposed:

- a) Marine paleoenvironments — Utrecht or Paris, 1982.
- b) Non-marine paleoenvironments — Montpellier, 1983.
- c) Paleogeography and Geodynamics — Austria, 1983.
- d) Session of the Paratethys W.G. at the next Congress of the Carpatho-Balkan Geol. Assoc. in Bucuresti, 1981.

An official invitation for the VIIIth Congress of RCMS in Budapest in autumn 1985 was presented by G. HÁMOR (Geol. Surv. Hungary).

Regional Committee on Pacific Neogene Stratigraphy: A new Chairman, N. DE HORNIBROOK has been elected. The next Congress will be held in New Zealand in February 1981, combined with excursions. The session was continued by a report of the IGCP project No. 114.

Regional Committee on Northern Neogene Stratigraphy: As new Board of RCNNS have been proposed: Chairman — W. HINSCH, Vice-chairman — C. E. DEEGAN, Secretary — H. SCHALKE. Mr. SCHALKE refused to take over this post. The other members of the Board could not be elected, as nobody of the initial voting-members has been present. Therefore the election has to take place at the next meeting of the RCNNS Executive Council and has to be approved by the ICS.