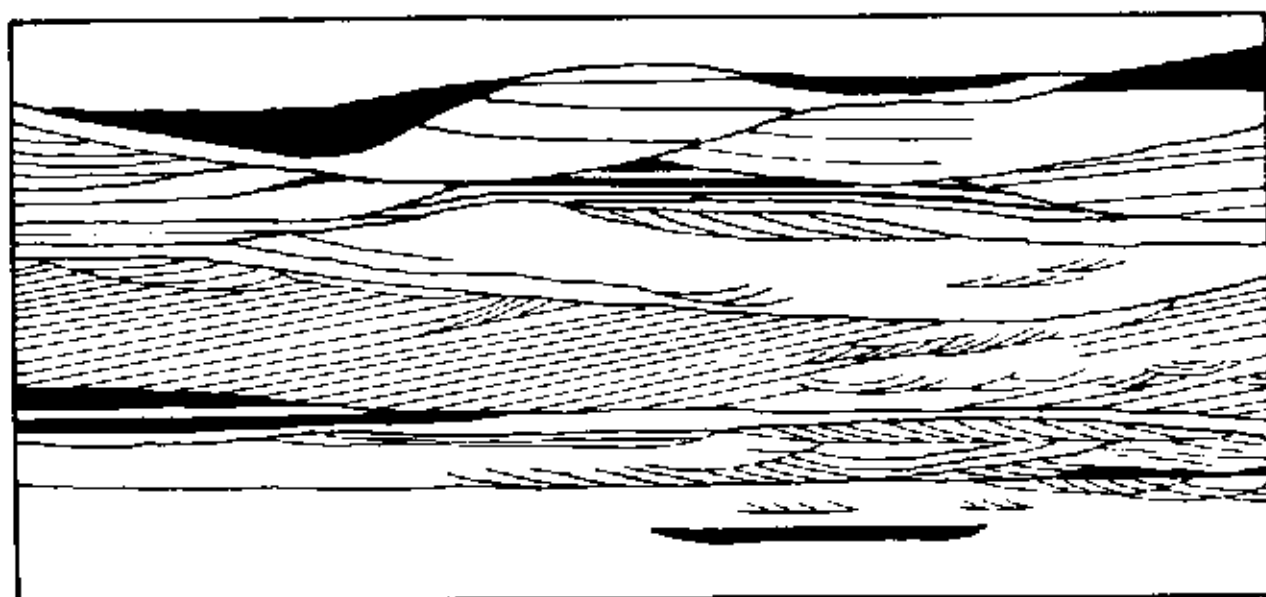


IAS NEWSLETTER

Nº 97 June 1988



Fluvial sandbody structure

Buntsandstein

Germany

ASSOCIATION NEWS

REPORT FROM EGYPT

We have received the following from Mahmoud M. Kholief, National Correspondent for Egypt:

The Ninth Petroleum Conference for Exploration and Production will be held in the Egyptian Petroleum Research Institute. More than 500 participants are expected at this conference including Egyptian specialists and foreigners. The conference is sponsored by the Egyptian Petroleum Corporation and will start 20 November 1988. It includes three days of technical sessions and two days for geological excursions. The conference will present the exploration activities in the sedimentary basins of Egypt together with the new techniques applied for petroleum exploration. An aspect which will be discussed as a separate theme is the subject of evolution of sedimentary basins. Under this topic a number of papers will be presented, most of them are related to sedimentation and tectonics, sedimentary facies, diagenesis and modelling of sedimentary basins.

REPORT FROM IRAQ

We have received the following from Ali Jawad Ali, National Correspondent for Iraq:

In Iraq, there is a wide interest in sedimentology and sedimentary petrology. This is due to the fact that 99 percent of the Iraqi territory consists of sediments and sedimentary rocks. Moreover, all natural resources of Iraq, including oil, native sulphur, phosphate, lie in sedimentary rocks. Consequently, Iraqi universities as well as other national geological institutions concentrate on sedimentology and sedimentary petrology in undergraduate and postgraduate studies.

There are three Geoscience Departments in the Iraqi Universities (Baghdad, Mosul and Salahuddin). The Earth Sciences Department of the University of Baghdad being the oldest and largest with 50 staff members, 60 postgraduate students and more

than 400 undergraduate students. About 40 percent of the M.Sc and Ph.D candidates are specializing in sedimentology and sedimentary petrology. Most of their research is concerned with sedimentary environments, sedimentary basins, sedimentation and tectonics and oil reservoirs.

First Arab Congress on Geological Education -

The First Arab Congress on Geological Education was held in Baghdad in December 1987. Papers were presented on promoting geological education in the Arab States and experiences were exchanged in the aspect. An agreement was reached on publishing a Geo - Arab Journal starting from 1988.

Applied Earth Science Research Centre -

This research center was established in the University of Baghdad in late 1987. With its six sections (Engineering Geophysics, Water Resources and Quaternary Geology, Environmental Geology and Geochronology, Sedimentary Basins and Tectonic Activity, Economic Geology and Geochemistry and Remote sensing Applications) the center aims at promoting applied research in modern trends of earth sciences.

The 9th Iraqi Geological Congress -

The 9th Iraqi Geological Congress will be held in Baghdad in April 1988. A substantial number of the papers that will be presented in the congress are devoted to sedimentology and sedimentary geology.

REPORT FROM TUNISIA

We have received the following report from M.H. Negra, National Correspondent for Tunisia:

The most important sedimentological activities in Tunisia during 1988 are:

A Tunisian-French symposium on Genesis, Diagenesis and Economical significance of reefal deposits. The main purpose is to demonstrate the principal research progress in reefal formations studies. This symposium comprises talks (2 days) and a field trip (2 days) to visit the Permian reef of Jebel Tabaga, a Jurassic reef at Tataouine area (in the south of Tunisia) and the Cretaceous reef of Jebel el Kebar (in the central part). This symposium will start on 26th May 1988.

The Tunisian Association of Applied Geology will organize the first Tunisian days of Applied Geology and at the same time the Jubilee of Mr A. Azzouz, one of the pioneers of Tunisian geology. The subject will be: "Geology: a major tool for development". This symposium will take place in Sfax from 31st May to 4th June 1988.

REPORT FROM WEST GERMANY

We have received the following report on the 78th Annual Meeting of the Geologische Vereinigung at Jülich, 24-26th February 1988, "Evolution of Sedimentary Basins" from T. Bechstädt, National Correspondent for West Germany:

More than 400 participants attended the meeting on "Evolution of Sedimentary Basins", organized by D. Welte and co-workers from the Institut für Erdöl und organische Geochemie, KFA Jülich. Main topics of the meeting were:

Seismic stratigraphy and sequence analysis - a brilliant keynote lecture on this topic was given by D. G. Roberts from BP, London-, other contributions were dealing with deep seismic and other geophysical methods.

Large sessions were devoted to "regional basin analysis" and "sedimentology and paleontology", covering a very broad span of basins and sedimentary sequences all over the world, many of them oil-producing.

Important contributions were presented by Bethke and by Corbet, both from the Univ. of Illinois, by Neugebauer from the Techn. Univ. Clausthal and by several authors from the KFA, Jülich, in the session on "quantitative modelling". Models of fluid migration including hydrocarbons, of numerical simulation of sedimentation processes, of computer-aided correlations of wells as well as of sediment compaction were presented.

Subsidence of basins from geophysical standpoints were highlighted in a very stimulating session by, for instance Watts from Lamont Geol. Observ., by Neugebauer from the Techn. Univ. Clausthal, by Cloetingh and co-workers from the Univ. of Utrecht. There was a vivid discussion of the motors of sea-level fluctuations; the interpretation of the Vail-curve by Watts gave a new insight into the problem for many participants. Of special

interest for a large audience was the oral and audiovisual presentation on a computer simulation of basin stratigraphy by Doyle, Lawrence, Snelson and Horsfield from Shell, Rijswijk.

Source rocks and the geochemistry of petroleum were characterized in a large session, dealing with hydrocarbon generation as well. Three of the highlights presented came from England & Mackenzie from BP, London, from Leythaeuser and from Rulikötter, both KFA Jülich.

Diagenesis and porosity development in sedimentary basins was another interesting session with case histories from different parts of the world, presented by for instance Bjørlykke, Univ. of Oslo, Fontboté and Corzawski, Univ. Heidelberg, Rieken, Univ. Heidelberg and many others.

The abstracts of this meeting are published in *Terra cognita*, 8, 1988; a special volume of *Geologische Rundschau* will be devoted to the proceedings of the meeting.

NEWS FROM S.E.P.M.

SOCIETY OF ECONOMIC PALEONTOLOGISTS AND MINERALOGISTS INSTALLS NEW OFFICERS

PETER A. SCHOLLE, Professor of Geology, Southern Methodist University, took over duties as President at the SEPM Annual Business Meeting, Tuesday, March 22, 1988, in Houston, Texas.

Other officers who will serve with Peter Scholle are:

President-Elect: RAYMOND L. ETHINGTON, Professor of Geology, University of Missouri, Columbia.

Vice-President: EDWARD D. PITTMAN is Senior Research Associate at Amoco Research Center, Tulsa, Oklahoma.

Secretary-Treasurer: RICHARD A. "SKIP" DAVIS, JR., is a professor at the University of South Florida.

Paleontology Councilor: ALLAN A. "TONY" EKDALE is Professor of Geology and Geophysics at the University of Utah.

Sedimentology Councilor: ARNOLD H. BOUMA is with the Department of Geology and Geophysics, Louisiana State University, Baton Rouge.

Editor, *JOURNAL OF SEDIMENTARY PETROLOGY*: NORMAN D. SMITH is Professor with the University of Illinois at Chicago.

Editor, PALAIOS: LEO F. LAPORTE is currently a Professor at UCSC.

Editor, Special Publications: BARBARA H. LIDZ is a geologist with the U.S. Geological Survey.

The Society of Economic Paleontologists and Mineralogists is headquartered in Tulsa, Oklahoma, and has a worldwide membership in excess of 7,000 individuals with a wide range of interests in sedimentary geology and palaeontology. It publishes two bimonthly journals, PALAIOS and the JOURNAL OF SEDIMENTARY PETROLOGY, and numerous reference books. SEPM also sponsors continuing education courses and field trips at its Annual and Midyear Meetings.

INTERNATIONAL GEOLOGICAL OOLITIC IRONSTONES

Project 222 Phanerozoic Oolitic Ironstones (POI)

"Phanerozoic oolitic ironstones, stratigraphical-paleocontinental distribution, and lithofacies associations" is a paleogeographic and regional approach to interpreting the origin of ironstones. This project aims to coordinate international research interests and activities involving the widespread and distinctive, yet commonly much neglected, Phanerozoic oolitic ironstones. Detailed wide-ranging studies of POI in light of current geological information and ideas will lead to new insights about their origin, as well as about the significance of their relation to both local and global processes during the past 600 MY.

Some questions and concerns that may be considered include the following:

1. Chronostratigraphic distribution of POI in relation to major global events.
2. Global distribution on drifting continents.
3. Geographic distribution relative to tectonic provinces and basin development.
4. Temporal and spacial distribution relative to the reconstructed patterns of cratonic seaways and oceanic-atmospheric circulation, and to particular major facies such as black shales.

5. The local environments of accumulation of POI and facies models that summarize these settings.
6. Detailed sedimentological and compositional differences among major POI as clues to varying conditions of origin.
7. The relation of POI to the development of other distinctive deposits commonly related to hiatuses, such as hardgrounds, glauconitic greensands, phosphorites, manganese deposits, and bauxites.
8. The making and the place of origin of the multi-coated ooids.
9. The source of the iron and clay concentrated in the ooids.
10. The origin and distribution of Proterozoic precursors of POI.

These items reflect the IGCP emphasis on the nature and time of geologic events as well as on the distribution and genesis of mineral resources. Even though all of them may not be investigated in detail they indicate the scope of our concern. The variety of the problems that may be addressed clearly requires active communication among investigators engaged in global tectonics, oceanography, paleomagnetism and paleocontinental distribution, basin analysis and environmental reconstruction, as well as in the geochemistry of iron and clay minerals.

Previous work on POI includes many outstanding detailed petrologic and stratigraphic analyses of ironstones. Few of them, however, involve detailed comparative studies of other ironstones. As a result today there are several contested hypotheses of origin, and an unresolved range of differing opinions about the making of the ooids, the source of their iron and clay, and their regional environmental setting. These interpretations must be evaluated rigorously in terms of constraints provided by knowledge of the local, regional and global conditions. Extensive cooperative research is needed for this task.

For the aims of this project it is suggested that an early effort focus on the production of a catalogue, or register, of all known POI with respect to age, locality, chronostratigraphic position, lithostratigraphic and lithofacies associations, tectonic framework, and reconstructed latitudinal position. With publication of these basic data other aspects of this project, as well as individual and local research, can be pursued in a

broader context. Another effort should focus on a comparative review of the major kinds of POI. Compilation of the Crataceous record should provide useful information for the Cretaceous project (CRER) of the Global Sedimentary Geology Programme. In addition, the POI project (277) shares common interests with Sea-level Correlations (200), Manganese Deposits and Palaeoenvironments (226), Metalliferous Black shales (254), and Earth's Glacial Record (260).

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U.S.A.

IGCP 260 GLACIATIONS AND GLOBAL CLIMATIC AND GEODYNAMIC EVOLUTION

As part of the 28th International Geological Congress in Washington, D.C. July 9-19th, 1989 a half or one day meeting on 'Earth's Glacial Record: Climatic and Tectonic Controls' is planned. Contributions are being solicited on a very broad range of topics covered by the theme title. The abstract deadline is October 1, 1988. Forms and general IGC enquiries can be obtained from 28th igc, P.O. Box 727, Tulsa, Oklahoma, 74101-0727 U.S.A. IGCP 260 enquiries should be directed either to Dr. Max Deynoux, Centre de Sedimentologie, Universite Louis Pasteur, Strasbourg, 1 Rue Blessig, 67084 France or Dr. Julia Miller, Geology Department, Vanderbilt University, Nashville, Tennessee, TN 37235 U.S.A. A copy of the abstract or a note of information to attend the meeting should be sent to the above.

There will also be a post-meeting field trip of about 8 days duration to the Miocene to Recent glaciomarine Yakataga Formation exposed on Middleton Island in the Gulf of Alaska. The trip will commence in Seattle, affording a visit to Late Pleistocene glaciomarine deposits of Whidbey Island and will include a visit to an Alaskan tidewater ice margin. For further information contact: Dr. N. Eyles, Department of Geology, University of Toronto, Toronto, Ontario M1C 1A4, Canada.

FUTURE MEETINGS

July 18-20, 1988

WEST GERMANY (Marburg)

FIRST INTERNATIONAL CONFERENCE ON RADIOLARIA

Contact: Prof. Dr. R. Schmidt-Effing, Interrad-Conference,
Department of Geosciences, D-3550 Marburg, West Germany (F.R.G.)
U.S.A. contact: Dr. Joyce R. Blueford, U.S. Geological Survey,
345 Middlefield Road 144, Menlo Park, Calif., U.S.A., phone
415-329-4004.

July 30 - August 4, 1988

CHINA (Beijing)

SEDIMENTOLOGY OF MINERAL DEPOSITS

Contact: Dr. Wang Shousong, IAS Symposium on the Sedimentology of
mineral deposits, c/o Institute of Geology, Academia Sinica, P.O.
Box 634, Beijing, China, teleph. 445913, telagr. Beijing 6347.

August 1-5, 1988

ARGENTINA (Buenos Aires)

SECOND ARGENTINE MEETING ON SEDIMENTOLOGY

Contact: Dr. Renato Andreis, Facultad de Ciencias Exactas y
Naturales (UBA). Dto. Geologia, Pabellon 2. Ciudad Universitaria
1428, Capital Federal, Argentina.

August 21-24, 1988

U.S.A. (Columbus, Ohio)

5th ANNUAL MID-YEAR MEETING OF THE SEPM

Contact: Jeanne Couch, Meetings Coordinator, SEPM, P.O. Box 4756,
Tulsa, OK 74159-0756, (918) 743-9765 U.S.A.

August 28 - September 3, 1988

U.S.A. (Crystal Mountain, WA)

VOLCANIC INFLUENCES ON TERRESTRIAL SEDIMENTATION

A Geological Society of America Penrose Conference

Contacts: Dr. G. A. Smith, Department of Geology, University of
New Mexico, Albuquerque, NM 87131, U.S.A.

Dr. W. J. Fritz, Department of Geology, Georgia State University,
Atlanta, GA 30303, U.S.A.

September 12-14, 1988

BELGIUM (Leuven)

9th IAS REGIONAL MEETING

Contact: Prof. R. Swennen, 9th IAS Regional Meeting,
Redingenstraat 16, B-3000 Leuven, Belgium.

September 14-16, 1988

CANADA (Calgary)

SEQUENCES, STRATIGRAPHY AND SEDIMENTOLOGY:

SURFACE AND SUBSURFACE

Core displays, field trips, posters and technical presentations.
Calgary, Alberta.

Contact: Dale Leckie, Geological Survey of Canada, 3303-33rd
Street N.W., Calgary, Alberta, Canada, T2L 2A7, teleph. (403)
284-0349, or David James, Esso Resources Canada, 1883, 237 4th
Avenue S.W., Calgary, Alberta, Canada, T2P 0H6, teleph. (403)
237-2468.

September 16-22, 1988

FRANCE (Digne)

GSGP meeting

CRETACEOUS RESOURCES EVENTS AND RHYTHMS

Contact: Bernard Beaudoin, GSGP-ENSMP, 35, rue St. Honoré, 77305
Fontainebleau cedex, France, teleph. 33(1) 64 22 48 21, telex
694736, telefax 33(1) 64 22 39 03 or R. Ginsburg, University of
Miami, Fisher Island, Miami Beach, FL 33139, U.S.A. Teleph.
(305) 672-1840, telex 317454.

September 19-23, 1988

GREECE (Athens)

ENGINEERING GEOLOGY AS RELATED TO THE STUDY,
PRESERVATION AND PROTECTION OF ANCIENT WORKS,
MONUMENTS AND HISTORICAL SITES

Contact: Greek Committee of Engineering Geology, 1988 Symposium
Secretariat, P.O. Box 19140, GR - 11710 Athens, Greece.

September 26-30, 1988

U.K. (Nottingham)

AN INTERNATIONAL CONFERENCE ON THE APPLICATION
OF GEOLOGY IN DEVELOPING COUNTRIES

Contact: Dr. Dorrik A.V. Stow, Conference Secretariat,
Geosciences in Development Conference, Geology Department,
University Park, Nottingham NG7 2RD, U.K. Teleph. (0602) 506101,
telex: 37346 UNINOT G, fax: (0602) 420825.

October 1988

NORWAY (Bergen)

INTERNATIONAL GEOLOGY CONFERENCE
 "CORRELATION IN HYDROCARBON EXPLORATION"

Principles, Practice and Problems

Contact: Ms. Elisabeth Holter, Norwegian Petroleum Society (NPF),
 P.O. Box 1897 - Vik, 0124 OSLO 1, Norway.

October 3-6, 1988

SPAIN (Barcelona-Rubielos)

LACUSTRINE FACIES MODELS IN RIFT SYSTEMS
 AND RELATED NATURAL RESOURCES (IGCP-219)

Contact: Dr. Pedro Anadón, Institut de Geologia "Jaume Almera"
 CSIC, Calle Martí i Franqués s.n., 08028-Barcelona, Spain.

October 10-12, 1988

FRANCE (Marseille)

BIOSSEDIMENTOLOGIE

Contact: Jean Philip, Laboratoire de Stratigraphie et de
 Paléocéologie Université de Provence, 3 Place Victor Hugo, 13331
 Marseille Cedex 3, FRANCE, teleph. 91-95-90-71.

October 31 - November 3, 1988

U.S.A. (Denver, Colorado)

GEOLOGICAL SOCIETY OF AMERICA
 CENTENNIAL MEETING AND EXHIBIT

Contact: Kathy Ohmie, Geological Society of America, P.O. Box
 9140, Boulder, CO 80301, U.S.A., teleph. (303) 447-2020.

November 1988

EGYPT (Cairo)

E G P C

NINTH EGYPTIAN EXPLORATION AND PRODUCTION CONFERENCE

EEPC

Contact: Salah Hafez, Vice Chairman for Exploration, The Egyptian
 General Petroleum Corporation, P.O. Box: 2130 - Nasr City, Cairo
 - Egypt, telex: 92049 PETMISR.

November 21-26, 1988

ARGENTINA (Paraná)

THE HOLOCENE IN SOUTH AMERICA

Contact: Dr. Martin H. Triando, Casilla de Correo 487, 3100
 Paraná, Argentina.

December 19-22, 1988

U.K. (Cambridge)

B.S.R.G. ANNUAL MEETING

Contact: David Macdonald, British Antarctic Survey, High Cross,
Madingley Road, Cambridge CB3 0ET, U.K.

Late 1988

IRAQ (Baghdad)

INTERNATIONAL SYMPOSIUM ON DESERT ENVIRONMENT

Contact: Dr. Ali Jawad Ali, Department of Earth Sciences,
University of Baghdad, P.O. Box 2083, Alwiya, Baghdad, Iraq.

March 30-31, 1989

FRANCE (Paris)

IAS THEMATIC MEETING ON

COMPACTION AND DECOMPACTION OF SEDIMENTS

Contact: B. Beaudoin, Ecole des Mines de Paris, 35 rue St.
Honoré, 77305 Fontainebleau cedex, France, telaph. 33(1) 64 22 48
21, telex minefon 694736 F, telefax 31(1) 64 22 39 03.

Easter, 1989

U.K. (London)

SEA LEVEL CHANGES AT ACTIVE PLATE MARGINS

Contact: David Macdonald, British Antarctic Survey, High Cross,
Madingley Road, Cambridge CB3 0ET, U.K.

April 20-21, 1989

U.K. (Manchester)

CATHODOLUMINESCENCE WORKSHOP - CARBONATES AND SILICICLASTICS

Contact: Tony Adams / Stuart Burley, Department of Geology, The
University, Oxford Road, Manchester M13 9P, U.K.

April 24-26, 1989

HUNGARY (Budapest)

10th IAS REGIONAL MEETING

Contact: 10th IAS Regional meeting, Hungarian Geological
Institute, H-1442 Budapest, Pf. 106, Népstadion út 14, Hungary.

NOTE: Date of submission of preliminary registration form has
been delayed to July 31, 1988.

July 9-19, 1989

U.S.A. (Washington, D.C.)

28th INTERNATIONAL GEOLOGICAL CONGRESS

Contact: International Geological Congress, P.O. Box 1001,
Herndon, Virginia 22070, U.S.A.

August 21-24, 1989

CANADA (Calgary)

2nd INTERNATIONAL RESEARCH SYMPOSIUM ON CLASTIC TIDAL DEPOSITS

Contact: Dr. R. A. Rahmani, Canadian Hunter Exploration Ltd, 700,
435 - 4th Ave. S.W. Calgary, Alberta T2P 3A8, Canada.

August 28 - September 2, 1989

FRANCE (Strassbourg)

9th INTERNATIONAL CLAY CONFERENCE 1989

AIPEA

Contact: Secretary general Dr. H. Paquet, Institut de Géologie,
1, rue Blessig, 67084 Strassbourg, France.

September 10-16, 1989

U.K. (Cambridge)

THIRD INTERNATIONAL CONFERENCE ON PALAEOCEANOGRAPHY

Contact: Prof. I.N. McCave or Dr. N.J. Shackleton, Dept. of
Earth Sciences, University of Cambridge, Downing Street,
Cambridge CB2 3EQ, U.K. Teleph.: 223-333422/334876.

October 2-4, 1989

SPAIN (Barcelona)

FOURTH INTERNATIONAL CONFERENCE ON FLUVIAL SEDIMENTOLOGY

Contact: Dr. C. Puigdefabregas, Servei Geològic de Catalunya,
carrer Diputació 92, 08015-Barcelona, Spain.

November 19-20, 1989

FRANCE (Paris)

1^{er} CONGRES FRANCAIS DE SEDIMENTOLOGIE

(French equivalent of B.S.R.G.)

Contact: I. Cojan, Secrétariat A.S.F., Ecole des Mines de Paris,
35 rue Saint-Honoré, 77305 Fontainebleau, France.

August 26 - September 1, 1990

U.K. (Nottingham)

13th INTERNATIONAL SEDIMENTOLOGICAL CONGRESS

Contact: Prof. I.N. McCave, Dept. of Earth Sciences, University
of Cambridge, Downing Street, Cambridge CB2 3EQ, U.K. Teleph.:
223-333422.

Edited by

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