



INTERNATIONAL ASSOCIATION
OF SEDIMENTOLOGISTS

NEWSLETTER

N°157

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Contributions to be sent to:

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IAS-Homepage:

<http://www.blackwell-science.com/uk/society/ias>

IAS SPECIAL LECTURE TOUR 1997

A number of years ago IAS has established specific Lecture Tours to strengthen the contacts between various institutions, to exchange ideas and experiences, as well as to assist colleagues in countries which do not have sufficient financial sources to frequently invite lecturers from abroad.

In the past years several colleagues served as lecturers for IAS (I remember John Crowell, Robin Bathurst, and Emiliano Mutti). When I was asked in 1996 to take on this task, I felt honoured but first hesitated because I realized that a lot of time had to be spent in doing this job. On the other hand, many of my previous obligations as a university teacher had turned out since my retirement from office. So I finally accepted the challenge.

My lecture tour lasted from the middle of March until the end of December 1997. I visited the following countries and cities (in temporal order):

- 1) Argentina (La Plata, Buenos Aires, Tucumán)
- 2) Spain (Zaragoza)
- 3) Italy (Rome, Bologna)
- 4) Poland (Krakow)
- 5) Slovakia (Bratislava)
- 6) Slovenia (Ljubljana)
- 7) Brazil (Salvador de Bahia, Ouro Preto, Rio Claro, Porto Alegre)
- 8) Canada (Calgary)

- 9) United States (Albuquerque, Socorro)
- 10) Belgium (Leuven, Gent)
- 11) The Netherlands (Utrecht)
- 12) Turkey (Ankara, Erzurum)
- 13) Jordan (Amman)
- 14) Indonesia (Jakarta, Bandung, Yogyakarta)

Some other requests and appointments had to be cancelled. I gave lectures and short courses on the following topics:

- Denudation-sediment accumulation systems
- Basin evolution (selected examples)
- Event stratigraphy
- Selected topics in sequence stratigraphy

I frequently combined the first two topics to one talk because they are closely related. At most places I presented two lectures, sometimes only one, several times three or all four lectures. Each lecture usually lasted two hours including some discussion. In five cities (Brazil and Jakarta) my hosts asked me to give short courses about one of the above themes. Then I spent several days teaching either every morning or both in the morning and in the afternoon.

The list of countries visited shows that I mainly travelled in non-English speaking countries but I

solely used English for my lectures. My audience greatly varied from institute to institute. It commonly consisted of a mixture of staff members and graduate students; sometimes many students came to the talks, but occasionally only a limited number of people, mainly staff members, was present. Likewise, the qualification and experience of the audience in the fields I was talking about markedly differed from place to place, though the general knowledge in geology appeared to be good to excellent everywhere. I tried to adjust my teaching to the local situation and therefore never repeated completely one of the lectures. I may have dealt with some specific topics in a way somewhat different from the "normal" teaching. People generally told me that they understood my English and could follow the lectures. Concerning the discussions, I felt that especially young people often hesitated to ask questions in front of the audience. Many of the students and younger colleagues had not had the opportunity to spend some time in an English-speaking country or to attend international congresses. In private conversation the language problem did not exist, and I think that the discussions with graduate students and research fellows about their own projects were often useful. In general, I can hardly judge whether and in which way my audiences in the different countries benefitted from my talks. I hope that I could convey some general principles and approaches to

current problems in sedimentary geology.

I myself also greatly benefitted from this tour. I learned a lot from the many discussions with colleagues and I saw a considerable number of excellent exposures on the one- or two-day field trips which were usually organized by my hosts. However, we not only talked about sediments but often also about other interesting themes, such as the educational system, new trends in earth sciences, prospects for students in different disciplines and, last but not least, about the general aspects of life in the different countries. I again realized the interesting phenomenon that geologists, no matter where they come from and where they are living, often hold similar realistic and down-to-the-earth views about common things of life. It was a pleasure to meet some old acquaintances as well as to learn to know a considerable number of very nice colleagues and make friends with some of them.

Some statistics

Number of countries visited: 14

Number of cities visited: 25

Field trips (days): 20

Hours of teaching: 135

Topic most frequently requested:

Denudation-accumulation systems
(including basin evolution)

Total time of travelling: 139 days

(including some private trips)

Number of individual flights: 36

Number of foreign languages
confronted with: 12

Number of currencies used: 14

Letters written to my host institu-
tions (including fax messages):
>100

In summary, it was a busy but
very interesting year. I sincerely
thank my most friendly hosts in all
the countries visited as well as the
members of the IAS Bureau, espe-

cially André Strasser, who put their
trust in me and provided advise and
support in many ways.

*Gerhard Einsele,
Geological-Palaeontological
Institute,
University of Tübingen, Germany.*

FIFTH IAS SPECIAL LECTURE TOUR

After the very successful Special Lecture Tours of Robin Bathurst (1992), John Crowell (1993/94), Emiliano Mutti (1996), and Gerhard Einsele (1997), we are happy to announce the fifth Special Lecturer, **Prof. Dr. Harold G. Reading**.

Prof. Reading teaches at the Department of Earth Sciences in Oxford, U.K. He is widely known for his textbook on Sedimentary Environments (now in its third edition) which is used in every Sedimentology class around the world.

The lecture themes are:

1) The controls on clastic coastal systems. Clastic coastal depositional systems were, until recently, classified primarily according to the dominant physical process: waves, storms, tides, and fluvial sediment input. Greater emphasis is now made upon marine sediment supply and relative sea-level changes. To what extent can we separate controls, especially tectonics and climate, in ancient sedimentary systems?

2) Sequence stratigraphy, an aid or hindrance to sedimentological understanding? Whilst sequence stratigraphy has rightly brought back time as a major control on evolving depositional systems, there has sometimes been an

overemphasis on jargon and a neglect of process sedimentology. Can we get the balance right?

3) The use and misuse of models. The creation of models is fundamental to our understanding of sedimentary facies. Yet, too often, the uncritical application of models, especially simplified and easily understood ones, has led to delays in scientific advances. What lessons can we learn for the future?

4) Controls on deep-sea systems, especially petroleum reservoirs. The prime control on the nature of deep-sea clastic systems is sedimentary supply, grain size, volume and mode of delivery into deep water. Consequently, knowledge of the up-current supplying system is essential. However, the actual facies distribution, crucial to reservoir development, is a consequence of local factors within the basin itself.

These lectures can be completed by round-table discussions and local field trips.

Sedimentology groups and institutes interested in receiving Prof. Reading should apply as soon as possible, but not later than **September 15th, 1998**, indicating the preferred time for the visit, and the preferred themes. A travel plan will then be established. Priority will

be given to institutions in countries that normally don't have the means to invite foreign lecturers, and to countries in Asia, South America and Eastern Europe where the previous Special Lecturers have not yet been.

IAS finances travel expenses to and from the visited country, but local expenses for food and lodging as well as for local field trips must be paid by the host institutions.

For applications, please write to:

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Switzerland
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GRANT ANNOUNCEMENT: THE GILL HARWOOD MEMORIAL FUND

In memory of Gill Harwood's international contribution to evaporite and carbonate sedimentology, the British Sedimentological Research Group, with assistance from the International Association of Sedimentologists and the Geological Society of London, have raised money through donations to generate a fund that will enable yearly grants to be awarded.

The donations towards this fund were given mainly by individuals who knew and worked with Gill, from industry and from the British Sedimentological Research Group. We wish to thank all of the individuals listed below who contributed to this fund, and to Amerada Hess, British Petroleum, Cambridge Carbonates, Mobil North Sea, Ranger Oil, and the Universities of East Anglia, Leeds and Newcastle for their generous contributions.

In keeping with Gill's spirit of global adventure, and knowing that she would want other young women to share in some of the opportunities she pursued, applications are requested from female graduate students (of any age) and female sedimentologists (under the age of 30), of any nationality, who require funds to assist them in carrying out sedimentological fieldwork or for attendance at international meetings.

Applications for the fund should include a brief c.v./résumé of the applicant, together with a one-page proposal covering the research to be undertaken or details of the meeting to be attended, an explanation of the likely benefits to the applicant, and details of any existing financial support. In addition, the applicant should include a supporting letter from their supervisor (in the case of a graduate student) or person familiar with the candidate's work. The closing date for applications is **November 1st** each year, and the applications should be sent to the Secretary of the British Sedimentological Research Group (BSRG). The current secretary is: Dr J. Hendry, BG Technology, Ashby Road, Loughborough, Leicestershire LE11 3GR, U.K. (e-mail: bsrg.box@bgtech.co.uk)

Announcements of award(s) will be made in BSRG Newsletters and through the BSRG web site, where up-to-date information for applicants will also be posted. The BSRG web site is currently being modified, but will soon be available at: <http://glsun2.gl.rhbnc.ac.uk:80/bsrg/>. Individual applicants will be informed of the outcome of their application in January of the following year.

Thanks to the Personal Contributors to the Gill Harwood Memo-

rial Fund: A. Adams, T. Alexandersson, J. Andrews, T. Atkinson, R. Bathurst, K. Bjorlykke, U. Boiano, I. Boomer, P. Brenchley, N. Chroston, I. Davison, H. Downes, W-C. Dullo, I. Fairchild, Fiona, G. Friedman, P. Friend, G. Fries, A. Friewald, S. Frisia, B. Funnel, R. Ginsburg, D. Grainger, O. Green, J. Hendry, J. Hudson, J. Ineson, E. Insalaco, I. Jarvis, T. Jickells, G. Kelling, M. Leeder, J. Light, I. Lind, J-P. Loreau, M. Luca, B. Maher, R. Major, M. Mange, I. McCave, B. Myers, G. Nichols, T.O'Riordan, F. Orszag-Sperber, H. Owen, L. Pray, C. Pudsey, E. Purdy, B. Purser, H. Reading, J. Reijmer, R. Riding, G. Rizzi, K. Schofield, S. van Rose, F. Vine, I. West, P. Wilson, J. Wood, R. Wood, J. Wonham, P. Wright.

Additional contributions to the fund would be very welcome and should be sent to either: Jan Alexander, School of Environmental Sciences, University of East Anglia, Norwich NR4 7TJ, U.K., or Dan Bosence, Department of Geology, Royal Holloway University of London, Egham, Surrey TW20 0EX, U.K.

*Jan Alexander,
University of East Anglia.
Dan Bosence,
Royal Holloway University of
London.
Duncan Pirrie,
BSRG Chairperson,
Camborne School of Mines,
U.K.*

ICHTNOFABRICS IN PETROLEUM GEOLOGY 1999
AND
5TH INTERNATIONAL ICHNOFABRIC WORKSHOP AND
FIELD SEMINAR

A meeting in Aberdeen focusing on ichnofabric work in the petroleum industry will precede the field-based 5th International Ichnofabric Workshop (IIW-5) in Yorkshire and Manchester. Combining the two events will provide a unique opportunity for those in industry and academia to exchange and develop applications of ichnofabric analysis and research.

Dates and Location

Joint meeting: 12-14 July 1999, Department of Geology and Petroleum Geology, University of Aberdeen, SCOTLAND. Field workshop: 15-18 July 1999, University College, Scarborough, Yorkshire, terminating 19-20 July 1999 at the Department of Earth Sciences, University of Manchester, ENGLAND.

Objectives

Considerable interest is currently shown in the application of ichnofabric analysis to petroleum exploration and reservoir characterisation. Ichnofabric analysis is useful for refining sequence stratigraphic

interpretations, improving correlations and investigating the effects of bioturbation on reservoir properties. Much of this work commonly occurs in isolation, with results and techniques included in confidential reports with little presented in the public domain. In contrast, a considerable amount of ichnofabric data is published in the academic literature but very little is specific to the oil industry. Therefore, the purpose of this workshop is to address specific problems and techniques applicable to the petroleum industry and provide a forum (both informal and formal) for exchange of information between industry and academia by way of the following objectives:

- Examining the application of ichnofabrics to facies recognition and interpretation, and sediment - trace fossil modeling.
- Reviewing the applications of ichnofabric analysis within the petroleum industry particularly in relation to reservoir exploration, quality and prediction.
- Examining trace fossils and ichnofabrics in North Sea cores and at outcrops of classic Jurassic sections of the Yorkshire coast.

Format

The format of the meetings will differ between the locations but in general will follow the format of previous IIW meetings.

Aberdeen

Presentations are invited covering themes of common interest that include:

- Use of ichnofabrics in the correlation of formations, wells, fields and reservoirs.
- Ichnofabrics applied to sequence stratigraphy.
- Bioturbation and reservoir quality.
- Ichnofabrics and borehole images.

The meeting will be 2-3 days of core workshop, oral and poster presentations, possibly with concurrent sessions depending upon the number of participants. Keynote speakers, including leading ichnologists will be invited to present talks for each section. We aim to have contributions published as a thematic set in the journal *Petroleum Geoscience*. Participants wishing to have their papers published in the thematic set should have the manuscripts ready for submission at the conference. The core workshops will be run concurrently with the talks demonstrating classic North Sea examples of ichnofabrics. A conference dinner will also be arranged.

Scarborough (IIW-5)

The field workshop will comprise full and half day excursions to classic Jurassic section of the Yorkshire coast, rich in trace fossils and ichnofabrics. Sections include the Staithes Sandstone Formation (off-shore marine), Ravenscar Group (marine and deltaic), Scarborough Formation and Corallian (shoreface) and the Cretaceous Chalk of Flamborough. Facilities will enable further oral presentations, posters and evening discussions. To optimize logistics, discussion and interaction, numbers for this part of the meeting will be limited to 40 people who are active in research and applications of ichnofabrics and ichnology.

Manchester (IIW-5)

This part of the workshop is devoted to museum and teaching aspects of ichnofabrics. It will comprise examination of trace fossil collections and discussion of the place of trace fossils in modern Earth Science teaching programmes. Participants are invited to bring exercises, posters and any innovative ideas. Participants are limited to 40 people.

Accommodation

Some accommodation can be arranged in University of Aberdeen Halls of Residence. Costs for this will be approximately £46 for a single room and £38 for a twin.

Participants may prefer to make their own arrangements in Aberdeen and will be supplied with lists of suitable hotels and B&B establishments. A transportation service may be offered if required. Accommodation for the Field Workshop will be at University College, Scarborough and the University of Manchester Halls of Residence. The cost will be approximately £40 per day (dinner, bed and breakfast).

Attendance and Costs

- Registration for Ichnofabrics in Petroleum Geology in Aberdeen is likely to be about £50.00, with a reduced rate for students and academics.

- Registration for the IIW-5 will be about £40. Travel from Aberdeen to Scarborough and for the field course at Scarborough will cost about £80.00 in total.

For preregistration, please contact by September 30, 1998:

*Nigel H. Trewin (Ichnofabrics),
Department of Geology &
Petroleum Geology,
Meston Building, King's College,
University of Aberdeen, Aberdeen,
U.K.*

*John Pollard (IIW-5),
Department of Earth Sciences,
University of Manchester,
Manchester, U.K.*

**PALEOCEANOLOGY OF REEFS AND CARBONATE
PLATFORMS: MIOCENE TO MODERN**
SEPTEMBER 27-30, 1999, AIX-EN-PROVENCE, FRANCE

Scientific program: - Effects of paleoceanographic and climatic changes in biodiversity and evolution of reef and carbonate platform biota.

- Paleoclimatic boundary conditions of reefs and carbonate platform formation: tropical vs cool water carbonate systems.

- Causes and effects of rapid sea level changes on reefs and carbonate platforms.

- Paleoclimatic and paleoceanographic signals in reef organisms.

- Cyclicity and sequence stratigraphy in carbonate systems and quantitative modeling.

- Impact of recent environmental changes on reefs.

- The carbon budget in reefs and carbonate platforms: sinks and sources.

- Hydrocarbon potential of Cenozoic reefs and Carbonate platforms.

Registration fees

Before May 15, 1999: 800 FF (including Symposium dinner); student concession: 650 FF.

After May 15, 1999: 1000 FF (including Symposium dinner); student concession: 800 FF.

Details for payment will appear in the second circular. Some financial support may be available for students and young researchers.

Accommodation

Aix-en-Provence has an excellent variety of good hotels at several price levels. Blocks of sleeping rooms are being held at University Residencies.

Style of the Symposium

Following the tradition of paleoceanography conferences, to avoid parallel sessions and providing enough time for debates, 2 scientific themes per day will both include 1 keynote and 3 to 4 invited talks; all other scientific contributions will be presented in Poster format and followed by a summary presented by the members of the Scientific Committee.

Location of the Symposium

The Symposium will be held in Aix-en-Provence which has a long university tradition and which now hosts the CEREGE, the new Centre Européen de Recherche et d'Enseignement de Géosciences de l'Environnement (Université Aix-Marseille III, CNRS, ORSTOM).

Second Circular

The Second Circular will be sent in September 1998 only to those who replied to the first one.

Scientific committee

G.F. Camoin, CEREGE, Aix-en-Provence, France.

A. Droxler, Rice University, USA.

W.-Chr. Dullo, GEOMAR, Kiel, Germany.

P. Flood, University of New England, Australia.

W. Hantoro, RDCG, Indonesia.

M. Pichon, EPHE-Perpignan, France.

A. Strasser, University of Fribourg, Switzerland

Contact

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fax: +49 431 600 29 25,
email: cdullo@geomar.de.

CALENDAR

4th EUROPEAN MEETING OF THE INTERNATIONAL SOCIETY FOR REEF STUDIES (I S R S)

September 1-4, 1998

FRANCE (Perpignan)

Contact: R. Galzin or M. Pichon, E.P.H.E.,
Université de Perpignan, 66860 Perpignan
Cedex, France.

Tel: +33 4 68 66 20 50

Fax: +33 4 68 50 36 86

E-mail: epheconf@univ-perp.fr

PERITETHYAN PALEOGEOGRAPHY WORKSHOP

September 3-5, 1998

ITALY (Bologna)

Contact: William Cavazza, Dept. of Earth and
Geoenvironmental Sciences, University of
Bologna, 40126 Bologna, Italy.

Tel: +39 51 243556

Fax: +39 51 243336

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Web:

<http://www.geom.in.unibo.it/orgv/igcp/igcp.htm>

SEDIMENT TRANSPORT AND DEPOSITION BY PARTICULATE GRAVITY CURRENTS

September 7-9, 1998

UNITED KINGDOM (Leeds)

Contact: Ben Kneller, Earth Sciences
Department, University of Leeds, Leeds
LS2 9JT, U.K.

Tel: +44 113 233 6625

Fax: +44 113 233 5259

E-mail: ben@earth.leeds.ac.uk

Web: <http://earth.leeds.ac.uk/turbidites/conference.htm>

2ÈME CONGRÈS FRANÇAIS DE STRATIGRAPHIE 2ND FRENCH SYMPOSIUM ON STRATIGRAPHY

September 8-11, 1998

FRANCE (Paris)

Contact: Strati-2000, Université de Paris VI,
Dép. de Géologie Sédimentaire, case 117, 4
pl. Jussieu, 75252 Paris cedex 05, France.

Tel: +33 1 44 27 50 41

Fax: +33 1 44 27 38 31

E-mail: palstrat@ccr.jussieu.fr

STRATA AND SEQUENCES ON SHELVES AND SLOPES

September 15-19, 1998

ITALY (Sicily)

Contact: Judy Tarpely at SEPM

E-mail: cemeet@galaxy.galstar.com

or

E-mail: stratcon@octopus.wr.usgs.gov

INTERNATIONAL SYMPOSIUM ON THE EPICONTINENTAL TRIASSIC

September 21-23, 1998

GERMANY (Halle / Saale)

Contact: G.H. Bachmann, G. Beutler, H.
Haubold, Inst. of Geosciences and Geiseltal
Museum, Martin Luther University,
Domstrasse 5, D - 06099 Halle / Saale,
Germany.

Tel: +49 345 55 26070 / 71

Fax: +49 345 55 27178

**CONFERENCE ON
GROUNDWATER AND BASIN
DEVELOPMENT**

October 29-31, 1998

INDIA (Dhule)

Contact: M.V. Baride, Dept. of Geology, Jai
Hind College, Dhule 424002 (MS), India.

Tel: +91 02 562 223 43

Fax: +91 02 562 206 78

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**COASTAL AND ESTUARINE
ENVIRONMENTS:
SEDIMENTOLOGY,
GEOMORPHOLOGY AND
GEOARCHAEOLOGY**

November 9-10, 1998

UNITED KINGDOM (London)

Contact: Prof. K. Pye and Prof. J.R.L.

Allen, University of Reading,

P.O. Box 227, Whiteknights,

Reading RG6 6AB.

Tel: +44 118 93 18 499

Fax: +44 118 93 10 279

E-mail: k.pye@reading.ac.uk

* * *

**NEW PERSPECTIVES ON THE OLD
RED SANDSTONE: TECTONICS,
HYDROLOGY AND CLIMATE**

December 7-8, 1998

UNITED KINGDOM (London)

Contact: Dr P.F. Friend, Dept of Earth Sci-
ences, University of Cambridge, Downing
St., Cambridge CB2 3EQ, U.K.

Tel: +44 (0) 122 33 33 400

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E-mail: pff1000@esc.cam.ac.uk

**GEOLOGICAL APPLICATIONS OF
WIRELINE LOGS (GAWL III)**

January 20-22, 1999

UNITED KINGDOM (London)

Contact: Neil Parkinson

Tel: / Fax: +44 181 296 93 72

Email: neil.parkinson@dial.pipex.com

or

Mike King, Imperial College, London, SW7
2BP, U.K.

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Fax: +44 171 594 74 44

Email: m.s.king@ic.ac.uk

* * *

**7TH MEETING OF SWISS
SEDIMENTOLOGISTS**

January 30, 1999

SWITZERLAND (Fribourg)

Contact: André Strasser, Institut de
Géologie, Pérolles, 1700 Fribourg,
Switzerland.

Tel: +41 26 300 89 78

Fax: +41 26 300 97 42

E-mail: andreas.strasser@unifr.ch

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**1999 LYELL MEETING
ORGANISM-ENVIRONMENT
FEEDBACKS IN CARBONATE
PLATFORMS AND REEFS**

March 1-2, 1999

UNITED KINGDOM (London)

Contact: Enzo Insalaco, School of Earth
Sciences, The University of Birmingham,
Edgbaston, B15 2TT, U.K.

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ICHTNOFABRICS IN PETROLEUM GEOLOGY 1999

July 12-14, 1999

SCOTLAND (Aberdeen)

Contact 1: Stuart G Buck, Mark J. F. Lawrence, Z&S Geology Ltd., Campus 2, Aberdeen Science and Technology Park, Balgownie Drive, Bridge of Don, Aberdeen, AB22 8GU, U.K.

Tel: +44 122 48 22 555

Fax: +44 122 48 23 777

E-mail: stuart.buck@zands.com

mark.lawrence@zands.com

Contact 2: Nigel H. Trewin, Department of Geology & Petroleum Geology, Meston Building, King's College University of Aberdeen, Aberdeen, AB24 3UE, U.K.

Tel: +44 122 42 73 448

Fax: +44 122 42 72 785

E-mail: n.trewin@geo.abdn.co.uk.

5TH INTERNATIONAL ICHNOFABRIC WORKSHOP AND FIELD SEMINAR

July 15-20, 1999

ENGLAND (Manchester)

Contact: John Pollard, Department of Earth Sciences, University of Manchester, Manchester, M13 9PL, U.K.

Tel: +44 161 27 53 817

Fax: +44 161 27 53 947

E-mail: john.pollard@man.ac.uk

THE BATHURST MEETING

July 12-15, 1999

UNITED KINGDOM (Cambridge)

Contact: Dr. J.A.D. Dickson, Dept. of Earth Sciences, University of Cambridge, Downing St., Cambridge, CB2 3EQ, U.K.

Tel: +44 122 33 33 400

Fax: +44 122 33 33 450

E-mail: jadd1@esc.cam.ac.uk

First circular and registration available through web page, address:

<http://www.campubli.co.uk/science/conference/bathurst>

19TH REGIONAL EUROPEAN MEETING OF SEDIMENTOLOGY

August 24-26, 1999

DENMARK (Copenhagen)

Contact: Conventum Congress Service, Carit Etlarsvej 3, DK-1814 Frederiksberg C, Denmark.

Tel: +45 31 31 08 47

Fax: +45 31 31 63 99

or Lars B. Clemmensen, Geological Institute, Øster Voldgade 10, DK-1350 Copenhagen K, Denmark.

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PALEOCEANOLOGY OF REEFS AND CARBONATE PLATFORMS: MIOCENE TO MODERN

September 27-30, 1999

FRANCE (Aix-en-Provence)

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