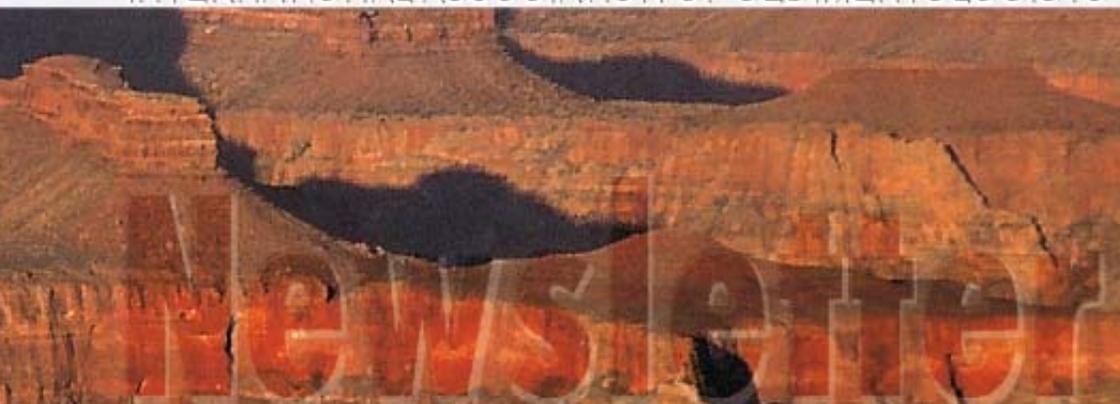


IAS

INTERNATIONAL ASSOCIATION OF SEDIMENTOLOGISTS



December 2010

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Link to **IAS National Correspondents**: <http://www.iasnet.org/about/correspondents.php>

REPORT

18TH INTERNATIONAL SEDIMENTOLOGICAL CONGRESS SEDIMENTOLOGY AT THE FOOT OF THE ANDES



MENDOZA, 26 SEPTEMBER - 1 OCTOBER 2010

<http://www.isc2010.com.ar>

The 18th International Sedimentological Congress under the title of «Sedimentology at the Foot of the Andes» was held in Mendoza (Argentina) between the 26 September and the 1 October 2010.

Facing the extraordinary rich sedimentological world encompassed in the Cordillera de Los Andes, the 18th ISC gathered 836 participants from 51 countries to discuss and share the most recent advances in the broad field of sedimentology. The congress offered oral and poster presentations distributed during four days along **eleven Technical Sessions**: Siliciclastic depositional systems and sequence stratigraphy; Carbonates and evaporates;

Sedimentary processes and experimental sedimentology; Basin analysis; Numerical modelling in sedimentology; Petrology and geochemistry of siliciclastic sediments; Volcano-sedimentology; Palaeontology and sedimentology; Geohazards and applied sedimentology; Resource sedimentology; Palaeoclimatology.

Ten Special Symposia also gathered oral and poster presentations amongst a variety of themes: IODP and ICDP records shed new light on tectonic, climatic and environmental processes; Patterns of deep-marine channel and associated overbank sedimentation outcrop, modern, experimental and seismic;

Sedimentology and distinctive criteria of tsunami and storm deposits; Mixed carbonate and siliciclastic systems; Rapid sea-level rise and response of carbonate systems; Sedimentary processes and stratigraphic architecture across shelf-slope-basin profiles; Cool-water

carbonates; Experimental sedimentology and stratigraphy; Sedimentology applied to resources; Glacial sediments and peat bogs; and Recent advances in numerical model on morphodynamics, sediment transport and stratigraphy.



Except the day of the mid-congress fieldtrip two **invited lectures** per day were included in the congress schedule covering a broad spectrum: Sedimentology applied to petroleum exploration and production, (Mario Carminatti, Petrobras, Brazil); Mixed carbonate and siliciclastic systems (Gregor Eberli, University of Miami, USA); Geomicrobiology and the sedimentary record (Kurt Konhauser, University of Alberta, Canada); New aspects in carbonate research (Maria Mutti, University of Potsdam, Germany); Glacial Sediments in Patagonia and Tierra del Fuego (Jorge Rabassa, CADIC -

CONICET, Argentina); Microbial carbonates (Robert Riding, University of Tennessee, USA); The Miocene Transgression along the Brazilian Coast (Dilce Rosetti, INPE/DSR - Brazil); and Loess of southern South America (Marcelo Zárate, University of La Pampa, Argentina). A Presidential Address on Coarse-grained deep-water deposits in the Mesozoic rift basin of East Greenland – Influence of tectonism, sea level, source area, drainage and transport patterns was presented by Finn Surlyk (University of Copenhagen, Denmark), the past IAS President.

Five **short courses** focused on



specific and frontier themes were offered including: Tectonics and Sedimentation in Petroliferous Basins (Pedro V. Zalán (Petrobras, Brazil); Chemostratigraphy: An Introduction to Methods and Applications in Sedimentology and Palaeoenvironmental Analysis (Ian Jarvis, Kingston University London, UK); Frontiers in Geomicrobiology (Crisogono Vasconcelos and Judith McKenzie, ETH-Zurich, Switzerland); Applications of Ichnology in Facies Analysis and

Sequence Stratigraphy (James MacEachern, Simon Fraser University, Canada; Luis A. Buatois, University of Saskatchewan, Canada and M. Gabriela Mángano, University of Saskatchewan, Canada); and Towards understanding sedimentary processes and stratigraphic architecture across shelf-slope-basin profiles (Ron Steel, University of Texas at Austin, USA; Steve Flint, University of Liverpool, UK and David Hodgson, University of Liverpool, UK).



Congress activities included pre, intra and post-congress field excursions for a total of 218 participants as well as a IAS student field course, all planned across a wide variety of geological settings from North Eastern Brazil to Austral Patagonia. Field Excursions were programmed as follow:

Pre-Conference Field Excursions

Linked basins and sedimentary products across an accretionary margin: the case for the late history of the peri-Gondwanan Terra Australis orogen through the stratigraphic record of the Paganzo basin. Ricardo Astini and Federico Martina.

The Meso- and Neoproterozoic of the Chapada Diamantina, Bahia, Brazil. Carlos E. de Souza Cruz, Augusto J. Pedreira, Almério B. França and Cícero P. Pereira.

Intra-Conference Field Excursions

Sedimentation and tectonics across the Andes: Fieldtrip to the Highest Andes. Laura Giambiagi, Estanislao Godoy, Maisa Tunik and Florencia Bechis

Geomorphological evolution of the Mendoza river valley. Stella M. Moreiras.

Post-Conference Field Excursions

Facies and stratigraphic sequences of the Mesozoic Neuquén Basin (western Argentina): continental to deep marine settings. Luis Spalletti, Gonzalo Veiga and Ernesto Schwarz

Mesozoic-Cenozoic basins of Central

Patagonia with emphasis in their tidal systems. Roberto A. Scasso, José Ignacio Cuitiño and Ignacio Escapa

Mass-transport deposits and gravity flows, post-glacial Carboniferous basins of western Argentina. Juan P Milana, Ben Kneller and Mason Dykstra

Mesozoic clastic sequences from a Jurassic rift to a Cretaceous foreland basin, Austral basin, Patagonia, Argentina. Daniel G. Poiré and Juan R. Franzese

IAS Student Field Course

Sedimentation and controls in a retroarc foreland basin: an example at the foot of the Andes. Luis A. Spalletti, Daniel G. Poiré, Gonzalo D. Veiga, Juan R. Franzese, Leandro D'Elia, Andrés Bilmes, Sebastian Richiano, Augusto N. Varela and Leandro M. Pérez

The Organising Committee of the 18th ISC fostered the mobility of young scientists and PhD students providing 67 Travel Grants. Student Poster Awards were given to Gisela Porfiri (Argentina), Amanda Santa Catharina (Brazil) and Ryan P. Grimm (USA).

The IAS General Assembly was held on Thursday evening within the congress schedule and included the presentation of the new IAS Bureau and Councils. During this ceremony the highest honor of the International Association of Sedimentologists, the Sorby Medal, was awarded to John Bridge for his contribution to sedimentology. In addition, Maurice Tucker and John Hudson were awarded with the Honorary Membership of the IAS.

The social programme started with an excellent ice break party and

continued with wonderful lunches (included in the registration fee!), well furnished coffee breaks and «poster with beer» sessions that promoted last-ending discussions among participants. One of the highlights was the gala dinner on Thursday evening that included an unforgettable tango dance show that for sure will remain as landmark of a social event that included dinner and life dance music.

The congress was sponsored by the National Agency of Science and Technology (ANPCyT, Argentina), the National Council of Research (CONICET, Argentina), the International Association of Sedimentologists (IAS) as well as Petrobras and Wintershall. The Geology Institute of the Azerbaijan National Academy of Sciences and Wiley Blackwell contributions to the exhibition are kindly acknowledged. The entire Organising Committee of the 18th ISC (see

<http://www.isc2010.com.ar>) would like to specially acknowledged the whole past IAS Bureau presided by Finn Surlyk as well as all key note lecturers, conveners and organizers of technical and special sessions, field excursion leaders and short courses organizers for their dedication and priceless collaboration with the congress.

From our organizer perspective the 18th ISC was a great success with much discussion on classical and new frontiers of Sedimentology. The global comradeship of the whole community was a distinguishable character of the congress during both scientific and social activities. We are thankful to the IAS for giving us the opportunity - and the honour - to host delegates from so many countries worldwide that are helping to promote future generations of the already active and dynamic South American sedimentological community. The next ISC in 2014 has been set for Geneva, Switzerland.



Argentinean organizers of the 18th ISC, IAS Bureau members (past and present) and colleagues in the countryside of Mendoza city.

Eduardo L. Piovano, Chairman 18th ISC
Sergio D. Matheos, Secretary 18th ISC

.... A Few Comments on the 18th ISC Conference

The 18th International Sedimentological Congress held in Mendoza, Argentina, has been just finished but the echo of its success is still on the way. As a new IAS General Secretary, I want to write few notes to underline the best aspects of the conference and relative field trips, two of which I participated.

First of all Mendoza «at the foot of the Andes» has been a real place to speak about science in sedimentology, to learn the most updated researches and to meet people coming from all over the world. For most of them Mendoza was the first time in South America, it was my case, and it could not be better.



Puente del Inca at the Andes

Let me also underline that logistics may greatly contribute to the good result of a conference: one single building with many lectures rooms, coffee break and poster hall at the same place and, not less important, the possibility to have a lunch bag at the conference included in the registration fee. Second and relevant, the organizers have given strong importance to young/student

scientists attending the meeting through several grants facilities.

Moreover, I had the possibility to participate to two field trips. The first was a cross cut through the Andes up to Puente del Inca at the foot of the Aconcagua Mountains. I would like to say thanks to the leader for their effort and capability to lead almost 80 people through the bending road taking at the border with Chile. An amazing place.



The Aconcagua, one of the highest peaks of the Andes

Sandstone (Pedra Clavada) outcrop close to Tres Lagos (Patagonia)



However, let me write some comments on the field trip organized in Patagonia in the Austral Basin. Patagonia is a unique place where continuous outcrops of siliciclastic rocks stay with you for

days. You may follow the life of a single bed from an alluvial fan to mature deep water system and work in a landscape surrounded by eagles, condors and an intricate pattern of rocks, lakes and glaciers.



Perito Moreno, the most famous glacier of Patagonia

I add a few pictures to give you the possibility to see some of the Patagonia landscape, and

why not may be to push someone to go there for research!!!



Field trip leaders – the volley team



Their effort to make the trip possible!!!

*Vincenzo Pascucci
IAS General Secretary*

REPORT

Polish Sedimentological

Conference – POKOS'4

The Polish Sedimentological Conference POKOS'4 entitled «The present is the key to the past: Modern sedimentary processes and their geological record» was held in Smo³dzino (northern Poland) on June 21st – 26th, 2010. The Institute of Geology and Institute of Geoecology and Geoinformation of Adam Mickiewicz University in Poznań, Geological Society of Poland and S³owiński National Park were the conference organizers. Joanna Rotnicka, Robert Jagodziński, Jarosław Jasiewicz, Grzegorz Rachlewicz, Katarzyna Skolasińska i Witold Szczuciński coordinated the preparation of the conference. The conference was the continuation of National Meetings of Sedimentologists which were organized annually by the Sedimentological Section of the Polish Geological Society from 1992 to 1998 and Polish Sedimentological Conference POKOS which was held in Zakopane (2004), Zwierzyniec

(2006) and Kudowa Zdrój (2008).

The conference was attended by more than 90 participants from different Polish scientific centers, a few geologists from Germany, Ukraine and the Czech Republic, Slovakia. The conference materials comprise 196 pages all together. They include extended field session guidebooks (78 pages) as well as abstracts of papers and posters.

Two field sessions were organized before the conference. The first one was concerned with Pleistocene glacial deposits outcropping in the picturesque cliffs along the Baltic Sea coast, origin of coastal lakes, as well as modern beach and dune sedimentation. The participants were familiarized with the wide spectrum of glacial deposits originated in subglacial environments and marginal lakes. The mobility of sands constructing beaches and coastal dunes was extensively discussed. A two-day post-conference session was devoted to Pleistocene sandur and



Conference participants (photo by Robert Jagodziński)

limnic deposits. The geologists from Poznań and Szczecin were the leaders of the field-sessions.

There were delivered 38 papers and 33 posters concerning different aspects of sedimentology and the related topics as for example litostratigraphy, ichnology and paleontology. The discussions which took place during the conference, not only during sessions but also after them in informal and pleasant atmosphere, enabled the participants to exchange the ideas and views. They also contributed to strengthening integration among Polish sedimentologists from different centers. It is important to note the attendance of numerous M.Sc. and Ph.D. students at the conference.

The participants decided that the organization of conferences called POKOS, which in the Polish language is not only the abbreviation of Polish Sedimentological Conferences (**P**olska **K**onferencja **S**edymentologiczna) but it also means swath and harvest, would be continued. The next conference will take place in the Outer Carpathians (southern Poland) in 2013. It will be organized by sedimentologists from AGH – University of Mining and Metallurgy with the collaboration of Czech geologists.

*Michał Gradziński
IAS National Correspondent from
Poland*

ANNOUNCEMENT

Symposium: Climate and Ocean Dynamics of the Cretaceous Greenhouse World

Utrecht, The Netherlands

January 26-28, 2011

The Symposium entitled Climate and Ocean Dynamics of the Cretaceous Greenhouse World will be held in Utrecht, The Netherlands, from Wednesday to Friday, January 26-28, 2011.

The scientific event is organized by Poppe de Boer, Caroline Slomp and Henk Brinkhuis, from the University of Utrecht.

The list of programmed keynote talks is as follows:

- ♦ **Hans Brumsack:** Black shales and water column anoxia: the trace metal story
- ♦ **Anthony Cohen:** Defining the causes and extent of marine anoxia during Oceanic Anoxic Events
- ♦ **Elisabetta Erba:** Calcareous nannoplankton and oceanic anoxic events: life strategies,

adaptation and evolution in strange oceans

- ♦ **Simone Galeotti:** Cyclostratigraphy of the classical 'mid' Cretaceous Unbria-Marche succession: global implications and future perspectives
- ♦ **Darren Grocke:** Coupling oceanic anoxic events with the terrestrial carbon cycle and environment
- ♦ **William W. Hay:** The Warm Earth, what we know and don't know
- ♦ **Ian Jarvis:** Black shale deposition, atmospheric CO₂ drawdown and cooling during the Cenomanian-Turonian Oceanic Anoxin Event (OAE2): insights into the operation of a greenhouse ocean

- ♦ **Hugh Jenkyns:** Geochemical response to redox changes in marine waters during Oceanic Anoxic Events
- ♦ **Helmut Weissert:** Cretaceous carbon cycle, climate and oceanography – tectonic, volcanic and orbital forcings

If you wish to participate in the conference, please inform Marjolein Mullen (e-mail: m.mullen@uu.nl) at your earliest convenience about the title of your lecture/poster and the theme in which it should be grouped. Abstracts due by December 1, 2010.

ANNOUNCEMENT

AGU Chapman Conference on

Climates, Past Landscapes and Civilizations
Santa Fe, New Mexico USA

21 – 25 March 2011

Human society is intimately linked to the environment that sustains it. Civilizations have evolved during a period of unique climatic stability since the onset of the Holocene, around 10 ka.

However, even within this overall framework of stability, changes in regional and global climate have significantly impacted the development of societies. To understand the effects of climate change, population increase, and resource exploitation on modern societies, a better understanding of how climate, landscapes and civilizations have interacted in the past is needed.

These processes most strongly impact poorer, less prepared countries, nevertheless, as Hurricane Katrina has shown, even the wealthiest countries are not immune to the effects of

environmental catastrophe. This Chapman meeting will assess the present state of science on how mankind and the environment have interacted over a variety of time and spatial scales.

Fields of Interest

This meeting is designed for input from geologists, climatologists, geomorphologists, archaeologists and paleoceanographers. The expected attendance is 80 people, to include scientists presenting their recent research from across the fields of the ocean and Earth sciences, as well as anthropology, archaeology and historical sciences.

Although the meeting will feature keynote speakers and established researchers, participation from early career workers and Ph.D. students is highly encouraged.

Format

The schedule of the five-day meeting is designed to start with an overview of general, global climate change processes, especially focused on the Holocene, followed by a series of focused sessions on a number of geographic areas where early human societies have evolved and where interactions with the evolving environment appear to have been important to their success or subsequent collapse. In particular we highlight:

1. Africa-Origins of Mankind
2. Nile-Ancient Egypt
3. South Asia-Harappan Civilization-Hindu Empires-Mughal Empire
4. Mediterranean-Bronze Age
5. Central Europe
6. North Atlantic-Viking Settlements
7. North America-Native American Settlements
8. Central America-Maya Civilizations
9. South America-Inca Civilizations
10. Australia
11. East Asia-Chinese Dynasties

The meeting will be concluded with a synthesis session in which more general patterns of human-environmental interactions will be outlined. The meeting will further discuss what issues are now most pressing and should be targeted for future research work.

Abstract submission deadline: **18 November 2010**

Field Trip

We plan a conference field trip on the fourth day of the meeting to allow participants a mental break from the focus sessions and the opportunity to see some of the spectacular geology and scenery of New Mexico, as well as some of the famous Puebla sites of the Native American peoples in Bandalier National Monument.

Further Information

See <http://www.agu.org/meetings/chapman/2010/ecall/>

*For information about the scientific program, contact **Peter Clift**, University of Aberdeen, UK (e-mail: pclift@abdn.ac.uk)*

IAS Postgraduate Grant Scheme

IAS has established a grant scheme designed to help PhD students with their studies. We are offering to support postgraduates in their fieldwork, data acquisition and analysis, visits to other institutes to use specialised facilities, or participation in field excursions directly related to the PhD research subject.

Up to 10 grants, each of about € 1000 are awarded twice a year.

These grants are available for IAS members only, and only for PhD students. Students enrolled in MSc programs are **NOT** eligible for grants. Research grants are **NOT** given for travel to attend a scientific conference, **NOR** for acquisition of equipment. Student travel grants for conferences can be usually obtained directly from organizers of the meeting.

The **Grant Scheme Guidelines** provide a summary of required information needed for successful a Grant Application. Applications are evaluated on the basis of the scientific merits of the problems, the capability of the researcher, and reasonableness of the budget.

Supervisor's Letter Guidelines list the information needed.

IAS Grant Scheme Guidelines

The application should be concise and informative and contains the following information (limit your

application to 4 pages):

- Research proposal - 2 pages maximum
- Bibliography - ½ page
- Budget - ½ page
- Curriculum Vitae – 1 page

Recommendation letter (or e-mail) from the supervisor supporting the applicant is mandatory and the research proposal must be sent directly to the Treasurer of IAS by the application deadline

Guidelines for letter from supervisor

The letter from the supervisor should provide an evaluation of the capability of the student to carry out the proposed research, the significance and necessity of the research, and reasonableness of the budget request. The letter must be sent directly to the Treasurer of IAS by post or e-mail by the application deadline (Patric Jacobs, Department of Geology and Soil Science, Ghent University, Krijgslaan 281/S8, B-9000 Gent, BELGIUM. E-mail: patric.jacobs@ugent.be). An application form is on our website (<http://www.iasnet.org>).

Grant application

- Research Proposal –
 - ♦ **Title**
 - ♦ **Introduction:** Introduce the

Calendar

SOURCE TO SINK SYSTEMS AROUND THE WORLD AND THROUGH TIME

24-27 January, 2011
Oxnard, California,
USA

Charles A. Nittrouer
School of Oceanography, University of Washington
E-mail: nittroue@ocean.washington.edu
Steven A. Kuehl
Virginia Institute of Marine Sciences, College William
& Mary
E-mail: kuehl@vims.edu
Web-page: [http://www.agu.org/meetings/chapman/](http://www.agu.org/meetings/chapman/2011/acall)

2011/acall

SYMPOSIUM: CLIMATE AND OCEAN DYNAMICS OF THE CRETACEOUS GREENHOUSE WORLD *

26-28 January, 2011
Utrecht,
The Netherlands

Poppe de Boer
University of Utrecht, The Netherlands
E-mail: pdeboer@geo.uu.nl

19th MEETING OF SWISS SEDIMENTOLOGISTS

26 February, 2011
Fribourg,
Switzerland

André Strasser
Department of Geosciences, University of Fribourg
CH-1700 Fribourg, Switzerland
E-mail: andreas.strasser@unifr.ch
Web-page: www.swissed.ch

**AGU CHAPMAN CONFERENCE ON CLIMATES, PAST
LANDSCAPES AND CIVILIZATIONS ***

21-25 March, 2011
Santa Fe,
New Mexico, USA

Peter Clift
University of Aberdeen, UK
E-mail: pclift@abdn.ac.uk
Web-page: [http://www.agu.org/meetings/chapman/
2010/ecall/](http://www.agu.org/meetings/chapman/2010/ecall/)

7TH INTERNATIONAL CONFERENCE ON ASIAN MARINE GEOLOGY (ICAMG-7)

11-14 October, 2011
*National Institute of
Oceanography (CSIR)*
Goa, India

V. Ramaswamy
E-mail: rams@nio.org
Web-page: <http://icamg7.nio.org>



28TH IAS MEETING OF SEDIMENTOLOGY *

5-8 July, 2011
Zaragoza,
Spain

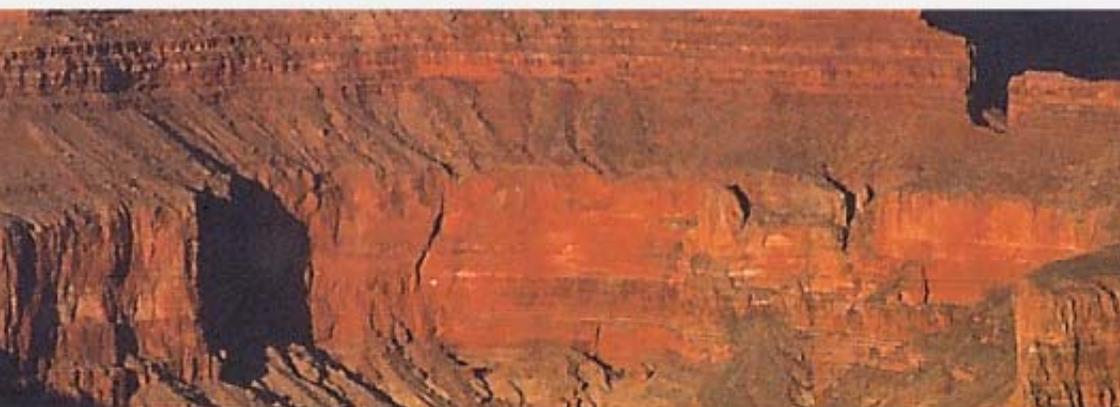
Marc Aurell
University of Zaragoza
E-mail: maurell@unizar.es

29TH IAS MEETING OF SEDIMENTOLOGY *

10-13 September,
2012
Leoben,
Austria

Hans-Jürgen Gawlick
University of Leoben
E-mail: hjgawlick@gmail.com

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