

9th International Congress on the Jurassic System, Jaipur, India

Organized by Department of Geology, University of Rajasthan, Jaipur
6th to 9th January, 2014

Venue: B. M. Birla Auditorium, Statue circle, Jaipur

Time: 10.00 AM–5.00 PM

The 9th International Congress on the Jurassic System will be held from 6th to 9th January 2014 in Jaipur, capital city of the state of Rajasthan, India. The congress will focus on various topics related to marine and non-marine sediments and fossils of the Jurassic Period. The congress will also include geological visits to Kachchh and Jaisalmer basins, particularly to the outcrops of Bajocian, Bathonian, Callovian and Oxfordian sediments

Website: www.jurassic2014.in

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Dharamveer Poonia, Tele. +919413314150
Jitendra Sharma, Tele. +919784856708
Hanuman Sahay, Tele. +919887282319

CONFERENCE SECRETARIAT

D.K. Pandey, Convener and Organizing Secretary
Tele. +919414085177, +919928369323
E-mail: jurassic2014jpr@gmail.com
dhirendrakp@gmail.com
dhirendrap@hotmail.com

DETAILED SCIENTIFIC PROGRAMME

The theme of the congress will be “Marine and Non-marine Jurassic System”, and a variety of scientific sessions and programs will be arranged, including:

- Marine and non-marine Jurassic boundaries and stratotypes.
- Biostratigraphy, sequence stratigraphy, chemostratigraphy, magnetostratigraphy, cyclostratigraphy.
- Biodiversity and evolution of Jurassic life.
- Depositional facies, palaeogeography, palaeoenvironment and ecosystem reconstruction.
- Jurassic paleoclimate and paleo-atmospheric CO₂ circulation.
- Major bio- and geological events of the Jurassic and their causes and mechanics.
- Mineral and energy resources (oil, gas and coals, *etc.*) of Jurassic deposits.
- Jurassic Geoparks and museums: their roles in geological relics protection and public education, *etc.*
- Protection natural heritage from anthropogenic destruction and to promotion geo-tourism.

We invite colleagues who are interested in acting as session conveners/chairs to submit further proposals for organizing scientific sessions.

SCHEDULE

1. Pre-congress Field Excursion

Date	28.12.2013–4.01.2014
Duration	One week
Destination	Middle and Upper Jurassic rocks of the Kachchh Basin

2. Congress in Jaipur – January 6th–9th, 2014

3. Post-congress Field Excursion

Date	10.01.2014–15.01.2014
Duration	One week
Destination	Middle and Upper Jurassic rocks of the Jaisalmer Basin

EXCURSIONS

Proposed pre- and post-Congress field trips

MIDDLE AND UPPER JURASSIC ROCKS OF THE KACHCHH BASIN (ONE WEEK: 28.12.2013–04.01.2014)

The Kachchh Basin is a small rift basin, situated on the western margin of the Indian craton. It is well known for its rich marine fauna of ammonites, bivalves, brachiopods, corals, sponges, echinoderms, microfossils, trace fossils, *etc.* Environments range from alluvial fans to rivers and carbonate and siliciclastic ramps. The strata show a distinct

KACHCHH BASIN

Oxfordian: Large-sized mayaitids from Dhosa Conglomerate Bed near Lodai (Habo Dome, Kachchh)



Early Jurassic: Dinosaur bones from the Bajocian sediments North of Khadir Island, Kachchh (Camarosauromorpha)



Bathonian: Off shore carbonates, Patcham Formation, Jumara Dome, Kachchh



Oxfordian: Condensed Dhosa Oolite Member (iron ooid formation, uppermost part of the Chari Formation, Jhura Dome)



Bathonian: Jumara Coral Bed, Kachchh



Bajocian: Low diversity association of brackish water bivalves of lagoonal origin

cyclicality influenced partly by regional tectonics, partly by relative sea-level and climatic changes. The trip will include a visit to the vast Recent salt flats of the Great Rann of Kachchh and to remains of the 3000 years old Indus Valley civilisation at Dholavira in Khadir “Island”.

Tentative field program	
28.12.2013	Arrival in Bhuj (district headquarter of Kachchh) latest by the afternoon (flight from Mumbai by Jet or Kingfisher Airlines, or from Ahmedabad by road/train, or from Delhi/Jaipur by train)
29.12.2013	Administrative permission (half day), visit to outcrop at Ler (Upper Callovian-Oxfordian), visit to Temple, Palace, city, <i>etc.</i>
30.12.2013	Visit to Sadhara Dome (Bajocian-Early Callovian)
31.12.2013	Visit to Jhura Dome (Bajocian-Oxfordian)
01.01.2014	Visit to Jumara Dome (Bathonian-Oxfordian)
02.01.2014	Visit to Jara Dome (Lakhapar Section) (Upper Jurassic to Lower Cretaceous)
03.01.2014	Visit to Khadir Island: Dholavira/Rann/Raimalro Limestone (Upper Bathonian). Night stay at Dholavira
04.01.2014	Visit to Tramau River section and Kantkote Fort section (Oxfordian)
05.01.2014	Arrival in Jaipur

MIDDLE AND UPPER JURASSIC ROCKS OF THE JAISALMER BASIN (ONE WEEK: 10.01.2014–15.01.2014)

The Jaisalmer Basin is a pericratonic shelf basin, situated also on the western margin of the Indian craton. Although the sequence is less complete than that of the Kachchh Basin it also has a marine fauna of high diversity. Environments range from continental to marginal marine to carbonate and siliciclastic ramps. The basal part of the succession is known world over for very rich gymnosperm wood fossils. There are a few marine marker horizons in the younger part of the succession, which can be used for interbasinal correlation (Pandey *et al.*, 2009). The field party will be based in Jaisalmer, one of the most beautiful medieval cities of India. Included in the programme is a visit to the sand dunes of the Thar desert.

Tentative field program	
10.01.2014	Jaipur – Jodhpur (with break) – Jaisalmer
11.01.2014	Thayat section (Lower Jurassic) (2 hrs) – lunch in Jaisalmer – Fort section (Bathonian)
12.01.2014	Badabagh section (Bathonian) (1/2 day) – Rupsi section (Oxfordian) – Jain Temple
13.01.2014	Kuldhar section (Callovian) – sum
14.01.2014	Fossil wood park (Lower Jurassic) – Kala Dungar Hills (Kimmeridgian) (morning) – City/Palace (evening)
15.01.2014	Return journey

JAISALMER BASIN



Panoramic view of Rupsi section, north of Jaisalmer, yielding ammonites ranging from Oxfordian to Tithonian. Benthonic fauna are either rare or missing



Close up view of oyster reef building on a hardground surface indicating sediment starve condition exposed in Nala-section 1.5 km west of Kuldhar village; Oxfordian



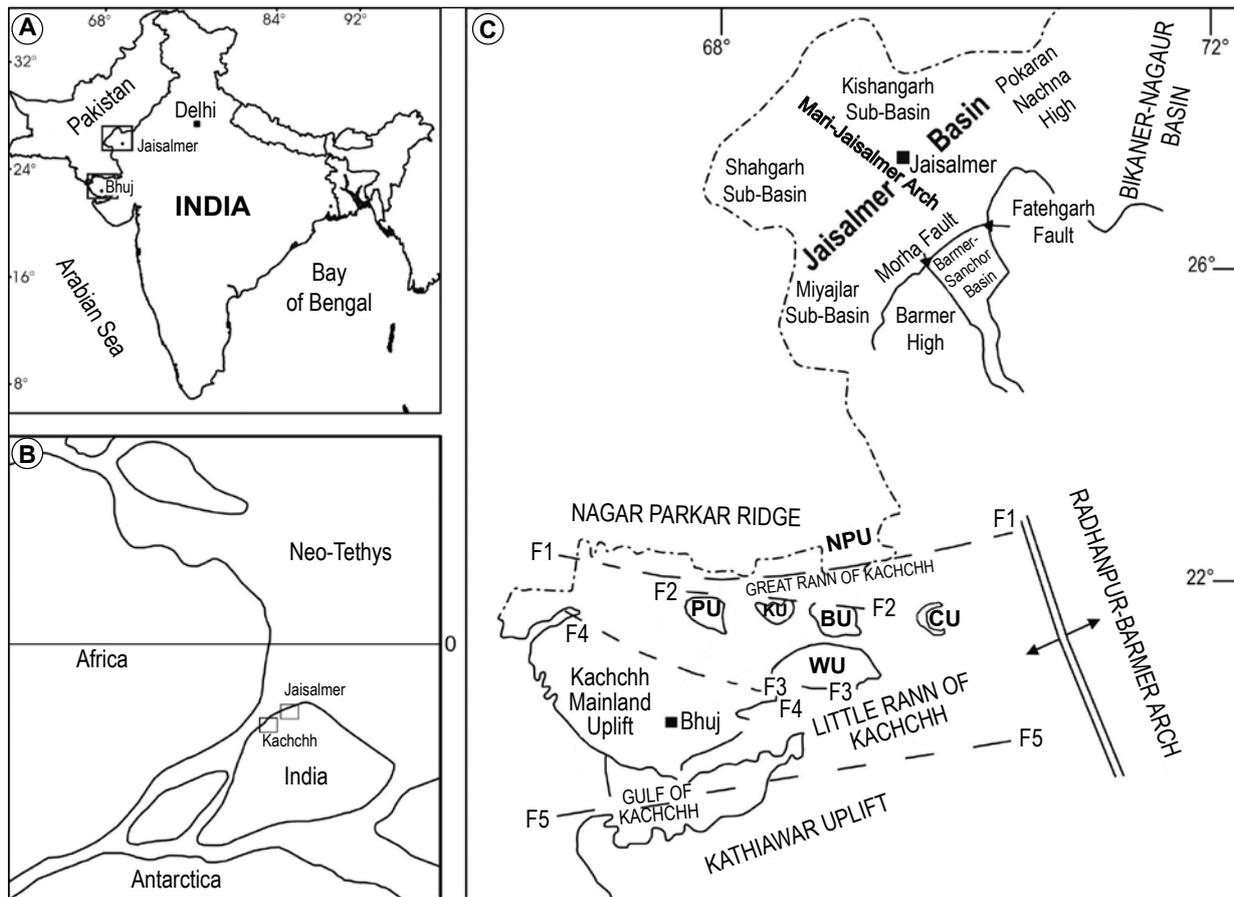
A close up view of upper surface of sandstone showing *Fuersichnus* (non-marine), north of Badasar ridge; Late Tithonian



Close up view of Nala-section, 1.5 km west of Kuldhar village showing sharp change in lithology. The top bed is bioturbated; Oxfordian



Oysters encrusted on the upper surface of the rudstone (hardground surface) in Nala-section, 1.5 km west of Kuldhar village; Oxfordian



Outline map of India showing location of Jaisalmer and Kachchh basins. B. Palaeogeographic position of Jaisalmer and Kachchh basins during the Jurassic. C. Tectonic outline map of Jaisalmer and Kachchh basins (after Biswas, 1982 and Misra *et al.*, 1993)

WU – Wagad Uplift, PU – Pachham Uplift, KU – Khadir Uplift, BU – Bela Uplift, CU – Chorar Uplift, NPU – Nagar Parkar Uplift, F1 – Nagar Parkar Fault, F2 – Islands Belt Fault, F3 – South Wagad Fault, F4 – Kachchh Mainland Fault, F5 – North Kathiawar Fault

REFERENCES

- BISWAS S.K., 1982 — Rift basins in the western margin of India and their hydrocarbon prospects. *American Association of Petroleum Geologists Bulletin*, **66**: 1497–1513.
- MISRA P.C., SINGH N.P., SHARMA D.C., KAKAROO A.K., UPADHYAY H., SAINI M.L., 1993 — Lithostratigraphy of Indian Petroliferous Basins, Document II West Rajasthan Basins, KDMIPE, ONGC Publication: 1–123.
- PANDEY D.K., FÜRSICH F. T., SHA J., 2009 — Inter-basinal marker intervals – A case study from the Jurassic basins of Kachchh and Jaisalmer, western India. *Science China Series D-Earth Sciences* 52 (12): 1924–1931.

PROGRAMME

6.01.2014

Inauguration (10.00 AM–12.30 PM)

Compeering – Dr. Aruna Pandey	
Lightening of Lamp	10.00 AM
Play University “Kul Geet”	10.05 AM
Welcome of guest by flower Hand bouquets and garlanding	10.10 AM
Welcome Address Head, Department of Geology	10.20 AM
About the Conference – Convener and Organizing Secretary Prof. Dr. D. K. Pandey	10.25 AM
Address by the Dean Faculty of Science	10.30 AM
Address by Guest of Honour	10.35 AM
Address by Chief Guest	10.45 AM
Presidential address	10.55 AM
Distribution of Memento	11.05 AM
Vote of Thanks by Head, Department of Geology	11.15 AM
High Tea	11.15 AM–11.45 AM

TECHNICAL SESSION (provisional programme)

Session I (12.00 PM–1.30 PM)

Key Note Address (3 Key Note address):

Chair Persons: Introduction of the key note speakers

Lunch (1.30 PM–2.30PM) at B. M. Birla Auditorium

Session II (2.30 PM–5.00 PM) Hall A

Marine and non-marine Jurassic boundaries and stratotypes

Chair Persons:

8 Lectures (Each lecture for 20 minutes)

Evening tea – 4.00 PM to 4.20 PM

Session III (2.30 PM–5.00 PM) Hall B

Biostratigraphy, sequence stratigraphy, chemostratigraphy, magnetostratigraphy, cyclostratigraphy

Chair Persons:

8 Lectures (Each lecture for 20 minutes)

Evening tea – 4.00 PM to 4.20 PM

Session IV (2.30 PM–5.00 PM) Hall C

Biodiversity and evolution of Jurassic life

Chair Persons:

8 Lectures (Each lecture for 20 minutes)

Evening tea – 4.00 PM to 4.20 PM

Inauguration Dinner: 7.00 PM to 9.00 PM at B.M. Birla auditorium.

7.01.2014

Session V (10.00 AM–1.30 PM) Hall A

Depositional facies, palaeogeography, palaeoenvironment and ecosystem reconstruction

Chair Persons:

9 Lectures (Each lecture for 20 minutes)

Tea break – 12.00 Noon to 12.20 PM

Session VI (10.00 AM–1.30 PM) Hall B

Jurassic paleoclimate and paleo-atmospheric CO₂ circulation

Chair Persons:

9 Lectures (Each lecture for 20 minutes)

Tea break – 12.00 Noon to 12.20 PM

Session VII (10.00 AM–1.30 PM) Hall C

Major bio- and geological events of the Jurassic and their causes and mechanics

Chair Persons:

9 Lectures (Each lecture for 20 minutes)

Tea break – 12.00 Noon to 12.20 PM

Lunch (1.30 PM to 2.30 PM) at B.M. Birla auditorium

Session VIII (2.30 PM–5.00 PM) Hall A

Mineral and energy resources (oil, gas and coals, *etc.*) of Jurassic deposits

Chair Persons:

8 Lectures (Each lecture for 20 minutes)

Evening tea – 4.00 PM to 4.20 PM

Session IX (2.30 PM–5.00 PM) Hall B

To be announced

Chair Persons:

8 Lectures (Each lecture for 20 minutes)

Evening tea – 4.00 PM to 4.20 PM

Session X (2.30 PM–5.00 PM) Hall C

Protection of Jurassic heritage around the World.

Chair Persons:

8 Lectures (Each lecture for 20 minutes)

Evening tea – 4.00 PM to 4.20 PM

Banquet Dinner: 7.00 PM to 9.00 PM

8.01.2014

Session XI (10.00 AM–1.30 PM) Hall A

Chair Persons:

9 Lectures (Each lecture for 20 minutes)

Tea break – 12.00 Noon to 12.20 PM

Session XII (10.00 AM–1.30 PM) Hall B

Chair Persons:

9 Lectures (Each lecture for 20 minutes)

Tea break – 12.00 Noon to 12.20 PM

Session XIII (10.00 AM–1.30 PM) HALL C

Chair Persons:

9 Lectures (Each lecture for 20 minutes)

Tea break – 12.00 Noon to 12.20 PM

Lunch (1.30 PM to 2.30 PM) at B. M. Birla auditorium

Valedictory function (2.30 PM to 4.30 PM)

Compeering – Dr. Aruna Pandey

Head, Department of Geology

Guest of Honour

Chief Guest

Chairman

Prize Distribution

Vote of thanks by Convener & Organizing Secretary: Professor D. K. Pandey

Evening Tea – 4.30 PM to 5.00 PM

Departure for Chokhi dhani at 6.00 PM from their respective hotels.

Dinner at Chokhi Dhani (5* Ethnic Rajasthani resort) – 7.30 PM to 9.30 PM

9.01.2014

JAIPUR VISIT: Sightseeing and shopping.

Departure at 09.00 AM from respective hotels. Please contact Travel desk for reservation.

Pack Lunch and Tea will be provided during sightseeing.

Dinner will be organized for the delegates staying back for the Post conference excursion to Jaisalmer.

REGISTRATION

Registration Process has already started from January 2012. Any queries can be directed to the convener of the Congress.

Registration Methods:

Option 1: by DD: Offline Registration

Option 2: Online Registration: for detail please see www.jurassic2014.in

Option 3: Remittance/Wire Transfer: for detail please see www.jurassic2014.in

Mail the completed Registration Form along with payment (DD) to Secretariat:

Dr. D. K. Pandey, Professor & Head, Department of Geology, University of Rajasthan Jaipur – 302055 (Rajasthan) India; e-mail : Jurassic2014jpr@gmail.com

Hotel Accommodation

Please visit www.jurassic2014.in

VENUE

Birla Auditorium is located in Jaipur, India. This auditorium is one of the most famous venues of the city. It hosts some of the renowned international events and exhibits. The exhibition center boasts of its multifunctional and flexible areas and of its capability to host different kinds of events. So many visitors, organizer and exhibitor gather at the exhibition center to take the advantage of functional and flexible spaces build for them. The participants are matching their footsteps with growing needs of the industry. Birla Auditorium also organizes cultural programs and festivals. The participants will get very large parking space at the auditorium.



Birla Auditorium in Jaipur

ABSTRACT

Submission deadline:

Abstracts will be due for submission prior to 30th May 2013

Extended Abstract up to three pages

General – Font Times New Roman, line spacing 1.5

Title – Sentence case, font size 14, bold

Authors – Family name followed by given name, affiliation and address including e-mail – Font size 12, italics

(e.g. Muthuvairavasamy Ramkumar^{a,*}, Alberti Matthias^b, Fürsich Franz T.^c, Pandey, Dharendra Kumar^d)

^a Department of Geology, Periyar University, Salem 636 011, India, Email-muramkumar@yahoo.co.in

^b Fachgruppe Paläoumwelt, Universität Erlangen-Nürnberg, D-91054 Erlangen, Germany; e-mail: matthias.alberti@gzn.uni-erlangen.de

^c Fachgruppe Paläoumwelt, Universität Erlangen-Nürnberg, D-91054 Erlangen, Germany; e-mail: franz.fuersich@gzn.uni-erlangen.de

^d Department of Geology, University of Rajasthan, Jaipur 302 004, India, Email-dhirendrap@hotmail.com

* Corresponding author)

Text – Font size 12

References – Font size 10,

(e.g. Singh, C.S.P., Pandey, D.K. & Jaitly, A.K. 1983. Discovery of *Clydoniceras* Blake and *Gracilisphinctes* Buckman (Bathonian-Middle Jurassic ammonites) in Kachchh, Western India. *Journal of Paleontology* 57: 821-824.

Arkell, W.J., Kummel, B. & Wright, C.W. 1957. Mesozoic Ammonoidea. In: Moore, R.C. (ed.), *Treatise on Invertebrate Paleontology. Part L, Mollusca 4, Cephalopoda, Ammonoidea: 80-437*, The Geological Society of America, New York, and the University of Kansas Press, Lawrence.

Abstract may content **line drawings** (font Arial), supplied separately as TIF (600 dpi) preferably made in CorelDRAW or Adobe Illustration

PUBLICATION OF THE PROCEEDINGS OF THE IX INTERNATIONAL JURASSIC CONGRESS

Editorial Board of the *Volumina Jurassica* journal cordially invites participants of the 9th International Congress on the Jurassic System in Jaipur (Rajasthan), India to submit manuscripts for a Congress proceeding volume. The manuscripts should explore issues or theories related to all the topics of the Jurassic System. The manuscripts should be submitted during Congress in Jaipur (6–9, January 2014) in electronic version and a paper copy added.

Volumina Jurassica, a journal supported by ISJS, is a peer-reviewed geological journal devoted to the publication of original research papers on all aspects of the Jurassic System. The journal is published in a printed version and online. Editorial Board Address: Polish Geological Institute-National Research Institute, Publication Department, Rakowiecka 4, PL-00-975 Warszawa; e-mail: volumina.jurassica@pgi.gov.pl, web site: www.pgi.gov.pl, or directly: voluminajurassica.org

Volumina Jurassica is issued jointly by the Polish Geological Institute-National Research Institute and University of Warsaw. Current editorial board: Andrzej Wierzbowski (editor in chief), Grzegorz Pieńkowski (deputy editor) and Anna Andraszek (secretary); we cooperate with John Wright in terms of linguistic adjustment. We invited 22 prominent international Jurassic geologists to the editorial council.

Volumina Jurassica publishes both original research articles and reviews – special papers presenting a comprehensive analysis of materials previously published. It is assumed that manuscripts in both these categories submitted to the journal have not been published or submitted to any other journal or book. It is assumed also that the corresponding author represents all the co-authors in certifying that all of them contributed meaningfully in preparation of the study, and that the final submitted version of the text is approved by all the co-authors.

Volumina Jurassica is published in English. The length of manuscript for the Congress proceeding volume should not exceed 10 printed pages of A4 size which corresponds to about 20 pages of manuscript of 1.5 line-spacing, including figures and tables. The guidelines for the authors are given on web-site, and published in following issues of the journal.

Manuscripts submitted to *Volumina Jurassica* and fulfilling the editorial requirements are subject to per-review. Authors submitting the manuscripts are requested to propose at least three possible reviewers, but the final choice of reviewers is up to Editor. The manuscripts will be examined normally by two reviewers. The editors will inform the author of the opinion of the reviewers – and provide their reports. The edition of *Volumina Jurassica* volume being the Jaipur Congress proceedings volume is planned at the end of 2014. As usually, 25 copies of the paper will be provided to the corresponding author (or scientific editor) for distribution. Each of the referees of the manuscript will receive as always a free copy of the journal.