

Zitteliana

The background of the cover is a detailed photograph of a fossilized trilobite. The trilobite is shown in a split view, with the left side showing the cephalon and thorax, and the right side showing the pygidium (tail shield). The fossil is embedded in a light-colored, textured rock matrix, likely limestone. The lighting highlights the intricate details of the trilobite's anatomy, such as the segments of its body and the structure of its legs.

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26

4th International Symposium
on Lithographic Limestone and Plattenkalk

Eichstätt/Solnhofen, Germany

September 12th-18th, 2005

- Abstracts and Field Trip Guides -

München 2005

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4th International Symposium on Lithographic Limestone and Plattenkalk

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Organised by

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Jura-Museum, Eichstätt

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and GeoBio-Center^{LMU}

– Abstracts and Field Trip Guides –

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Umschlagbild: *Mesolimulus walchi* DESMAREST; Pfeilschwanzkrebs mit Fährte; Lower Tithonian, Solnhofen (BSPG AS I 944).

Preface

Following the first International Symposium on 'Lithographic Limestone', held in Lyon in July 1991, a second meeting was organized in Cuenca during the summer of 1995, and a third in Bergamo in August 1999. It is now our pleasure to welcome the scientific community to the fourth sequel of these meetings held in the area of the type-locality of the Lithographic Limestone, well-known also for its famous fossils such as *Archaeopteryx*.

In a multidisciplinary approach, the meeting addresses various aspects of the study of lithographic limestone and Plattenkalk deposits, including palaeobiology and ecology of related fossiliferous sites, taxonomy, stratigraphy and taphonomy of excellently preserved fossils of the individual Plattenkalk deposits, and also sedimentological and geochemical aspects.

The scientific sessions will be organised by the Jura-Museum Eichstätt and held in historical rooms of the Bishop's Seminary in Eichstätt from September 14th through 16th, 2005.

This volume contains the abstracts of the oral and poster presentations of the meeting. The second part is dedicated to the pre- and post-symposium field trips. It begins with an introduction to the stratigraphy and facies development of the Upper Jurassic of southern Germany by D.U. SCHMID, R.R. LEINFELDER & G. SCHWEIGERT. Field trip A by R. KOCH and

C. WEISS takes to the Northern Franconian Alb. Main purpose of this excursion is to present new data and palaeogeographic models for the deposition of carbonate sands and the so-called 'sponge-algal reefs', as well as to demonstrate the facies zonation along a sedimentary ramp situation. Field trip B and C by M. RÖPER explore the tropical seas and lagoons around the 'Solnhofen archipelago' with its exciting wealth of different Fossiliferous sites. Both excursions focus on the peculiarities of each basin and sub-basin concerning its Plattenkalk-type and fossil content. Finally, the post-symposium field trip D by G. SCHWEIGERT, G. DIETL & R. KOCH takes to Nusplingen far to the west. The excavation campaigns of the last years revealed spectacular results with regard to the taxonomy, palaeoecology, and origin of this famous Fossiliferous site.

On behalf of the organization committee, it is our pleasure to present to you this volume. We wish you an agreeable meeting, many interesting talks, good weather for the plunge into the lagoons, and a safe trip home.

We greatly acknowledge the financial support provided by the Deutsche Forschungsgemeinschaft, the Bishop's Seminary in Eichstätt, the municipality of Solnhofen, and the "Freunde des Jura-Museums e.V."

Martina KÖLBL-EBERT
Winfried WERNER

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