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## BOOK REVIEW

### Josip TIŠLJAR: *Sedimentologija klastičnih i silicijskih taložina*

(*Sedimentology of Clastic and Siliceous Deposits* – in Croatian)

X+426 p., 206 illustrations, 500 copies, Institute of Geology, Zagreb, 2004,  
ISBN 953-6907-03-8

After three published books, *Petrologija sedimentnih stijena* (Petrology of Sedimentary Rocks; Faculty of Mining, Geology and Petroleum Engineering of the University of Zagreb, 1987), *Sedimentne stijene* (Sedimentary Rocks; Školska knjiga, Zagreb, 1994) and *Petrologija s osnovama mineralogije* (Petrology with Basics of Mineralogy; Faculty of Mining, Geology and Petroleum Engineering of the University of Zagreb, 1999), Academician Josip Tišljär accepted a major challenge – to present in Croatian a state-of-the-art publication of the dynamic scientific discipline of sedimentology. He decided to split this wide topic into two parts: in 2001 the first part, *Sedimentologija karbonata i evaporita* (Sedimentology of Carbonates and Evaporites) was published, and in December of 2004 the second part, *Sedimentologija klastičnih i silicijskih taložina* (Sedimentology of Clastic and Siliceous Deposits) came out in print, both published by the Institute of Geology Zagreb (Croatian Geological Survey).

The book *Sedimentologija klastičnih i silicijskih taložina* was reviewed by Prof.Dr. Davor Pavelić and Dr.Sc. Igor Vlahović, the publisher is the Institute of Geology, Zagreb – represented by M.Sc. Đuro Benček. The book was prepared by Dr.Sc. Ivo Velić, editor-in-chief, and Dr.Sc. Igor Vlahović, managing editor.

Clastic and siliceous rocks are widely distributed in Croatia – to a lesser extent in the Dinarides, and they dominate in the Croatian part of the Pannonian Basin. These rocks cover a wide stratigraphic range, from the Palaeozoic to the Holocene, resulting from very complex depositional processes described in detail by the author, including possible causes, but also environmental factors which influenced their evolution. Recent environments with their living examples represent a very important foundation for sedimentological investigation, clearly defining this scientific discipline as an actualistic one. This emphasizes not only the possibility of using the investigation of recent environments as a key for understanding fossil ones, but also to enable man to control the evolution of his living environment, both to protect it and predict and avoid possible catastrophic events.

The book is voluminous – 426+10 pages, and well illustrated (32 tables and 174 figures). It contains 5



parts, 21 chapters, 80 subchapters and 204 sections, and 376 cited references which clearly document the author's approach to this complex scientific discipline. It should be emphasized that the author additionally proposed very careful new translations for some sedimentological terms used in foreign literature, enabling their more clear usage in the Croatian language.

The concept of the book, with a clear and logical succession from a discussion of the origin and structural-textural characteristics of clastic and siliceous deposits, through laboratory investigation, systematics, to the division of depositional environments, is based on the methodology of sedimentological investigation, i.e. the sequence field–laboratory–cabinet. This approach completely fulfils the latest standards of writing with comparable books.

Besides well-known, state-of-the-art facts concerning the origin of clastic and siliceous rocks and their nomenclature, field and laboratory investigations, and systematics of depositional environments, the author not only presented numerous examples from his own investigations, but also the interpretations of other authors working on clastic and siliceous deposits in Croatia. This indicates the high scientific value of the book, which will be, together with numerous included references, invaluable help for all future sedimentological investigations of clastic and siliceous deposits in Croatia, and also the study of carbonate deposits which are frequently closely associated.

*Sedimentologija klasičnih i silicijskih taložina* can be highly recommended as a great handbook for all sedimentologists, but it will be also very useful for the investigation of mineral deposits, oil and gas, as well as in geochemistry, hydrogeology, engineering geology and geomorphology. During the current turbulent

advance of science, when scientific work is mostly multidisciplinary, the book will also be required literature for pedologists and geographers, as well as professionals from other areas involved in extremely important environment protection issues. However, besides the scientific and professional usage, this book will serve as a very important educational tool, since it will be surely used for several undergraduate and graduate courses, not only in geology, but also in mining, petroleum engineering, civil engineering and agronomy.

Finally, the author has just received the important and prestigious Annual Award of the City of Zagreb, for his two latest books on sedimentology – *Sedimentologija karbonata i evaporita* and *Sedimentologija klasičnih i silicijskih taložina*.

The price of the book, which can be bought from the Institute of Geology (Sachsova 2, HR-10000 Zagreb, Croatia), is 245 kn – approximately 35 EUR.

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