

BOOKS/PERIODICALS REVIEW

The Rock Manual: The Use of Rock in Hydraulic Engineering

BY CIRIA, CUR, CETMEF

*Published by CIRIA. 2007.
ISBN: 0-86017-683-5. 1267 pp. + CD.*

When you think of rock, you think of hard rock or solid rock, but in this case also of heavy rock. This manual, counting 1267 pages, feels like a rock and must weigh a few kilos. So if you are travelling you may not want to carry it in your luggage. Luckily, in the front of the hard copy of the book is also a CD with the whole manual in PDF format. However, since the resolution of the pictures in the PDF files is not very high, the CD is suitable as a search tool, but not as a replacement of the book. The electronic version can also be found on the websites of CIRIA (www.ciria.org, click on Bookshop, or www.ciriabook.com) and CETMEF (www.cetmef.equipement.gouv.fr).

Rock is a commonly used construction material in the hydraulic environment. It is used in the marine and fluvial environments to provide protection against scour and erosion and to limit wave overtopping and flooding. Estimates suggest that at least 10 million tonnes of armourstone per year are used in construction across Europe.

In 1991 CIRIA/CUR published the original *Manual on the Use of Rock in Coastal and Shoreline Engineering*, commonly referred to as "The Rock Manual". This was followed in 1995 by the *Manual on the Use of Rock in Hydraulic Engineering* by CUR. This new edition of "The Rock Manual" has been completely revised and updated by a joint UK, French and Dutch team represented by CIRIA, CETMEF and CUR, respectively, and presents current good practice for the design and construction of rock structures for erosion and flood control at coasts and rivers. Where appropriate it presents new or emerging technologies that have not, at the time of the writing, become standard practice, to allow the reader to be fully aware of, and make the best use of, the latest research findings.

The target audience for the manual is wide and includes planners, developers, engineering consultants and designers, architects, building managers, facility managers, contractors, producers and suppliers, owners, staff from regulators, funders and educational institutions. The guidance is suitable for worldwide applications with the stated aim of

achieving a long-term improvement in the use of rock and will promote conservation of natural systems in balance with the proper protection of human life and property. Although the editors suggest that the reader should have a degree in Civil Engineering and at least two years of experience, Mechanical Engineers with an affinity to Civil Engineering should be able to understand the manual as well.

The manual is a very good enchiridion and is recommended to all who are involved in the use of rock in hydraulic engineering. This book is available from www.ciriabooks.com.

S.A. MIEDEMA

FACTS ABOUT

Environmental Impact Assessments

INTERNATIONAL ASSOCIATION OF DREDGING COMPANIES

January 2008. 4 pp. Available free of charge.

Dredging is a complicated matter and nowadays trying to be an expert in everything is impossible. Yet all kinds of stakeholders come into contact with some of the technical aspects of dredging and are confronted with terminology that is not obviously comprehensible. *FACTS ABOUT Environmental Impact Assessments* is the third in an ongoing series of leaflets published by the International Association of Dredging Companies (IADC). The aim of this new series of concise, easy-to-read leaflets is to give an effective overview of essential facts about specific and important dredging and maritime construction subjects. Questions such as "What is the difference between an EIA, an EIS, an EES and an ES?" and "What is the World Bank definition of an EIA?" are answered in a succinct and clear manner. For those needing more in-depth or detailed information, a reference list of other literature is provided.

These publications are part of IADC's on-going effort to support clients and others in understanding the fundamental principles of dredging and maritime construction – because providing effective information to all involved parties is an essential element in achieving a successful dredging project. All "FACTS ABOUT..." are available in PDF form on the IADC website: www.iadc-dredging.com. Printed copies can be ordered by contacting the IADC Secretariat: info@iadc-dredging.com.

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Also asked and answered will be the effect the inability to dredge would have on the world economy and its environment.

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30th International Seminar on Dredging and Reclamation
DELFT, THE NETHERLANDS
JUNE 16-20, 2008

Aimed at (future) decision makers and their advisors in governments, port and harbour authorities, offshore companies and other organisations which are involved with the execution of dredging projects, the International Association of Dredging Companies, in co-operation with UNESCO – IHE, organises the International Seminar on Dredging and Reclamation each year in Delft.

Since 1993 IADC has provided a week-long seminar especially developed for professionals in dredging-related industries. These intensive courses are often organised in co-operation with local technical universities and have been successfully presented in Delft, Singapore, Dubai, Buenos Aires, Bahrain and Mexico. The Seminars reflect IADC's commitment to education, to encouraging young people to enter the field of dredging, and to improving knowledge about dredging throughout the world.

This five-day course strives to provide an understanding through lectures by experts in the field and workshops. Some of the subjects covered are:

- the development of new ports and maintenance of existing ports;
- project phasing (identification, investigation, feasibility studies, design, construction, and maintenance);
- descriptions of types of dredging equipment and boundary conditions for their use;
- state-of-the-art dredging techniques as well as environmentally sound techniques;
- pre-dredging and soil investigations, designing and estimating from the contractor's view;

- costing of projects and types of contracts such as charter, unit rates, lump sum and risk-sharing agreements.

An important feature of the seminars is a trip on a trailing suction hopper or a cutter suction dredger to a nearby dredging project. A visit to a dredging yard is also included.

The cost of the seminar will be € 1,350. This fee includes all tuition, seminar proceedings and workshops and a special participants dinner during the week, but is exclusive of travel costs and accommodation. If needed, IADC can assist with finding accommodation.

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The IADC Secretariat:
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International Symposium on Sediment Management
LILLE, FRANCE
JULY 10-12, 2008

Over the ages, river estuaries have given economic prosperity to those who live on their embankments. Much of this prosperity is based on the sediments brought by the rivers, which carry with them contaminants. Even if regulations and a better control of contaminants have been established to reduce their emission, many contaminants are still present in bottom sediments. In fact, some of them are persistent and continue to pose a risk to the environment. Since the contaminated sediment problem is extended throughout the world, this symposium will be international event, reviewing recent advances on sediments management related research and focus on engineering aspects including:

- Management of dredging operation and storage of sediments.
- Treatments and transport of contaminated sediments.
- Ecotoxicological approaches and developments of biotests.
- Analyses and water treatments.
- Beneficial uses of dredged marine and river sediments in civil engineering and in other fields.

CALL FOR PAPERS

All papers and presentations will be in English. Official languages of the symposium are English and French, with simultaneous translations provided during plenary sessions.

For further information contact:
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CEDA Dredging Days 2008
CONFERENCE CENTRE 'T ELZENVELD
ANTWERP, BELGIUM
OCTOBER 1-3, 2008

With the title "Dredging Facing Sustainability" CEDA Belgium intends to raise a wider awareness of the stakeholders to the efforts of the dredging world – contractors, shipyards and consultants – to sustainable development. Topics include: How to tackle sea level rise – dredging for coastal flood protection; Dredging as a key player in the energy discussion; Creating estuarine wetlands – vital ecosystems for sustainable development; Dredging in sensitive areas – balancing between socio-economic development and nature conservation – improving technology to achieve "no impact"; Efforts to reduce emissions in the dredging industry; sustainability concerning decision process.

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Hydro8 Symposium
BRITANNIA ADELPHI HOTEL
LIVERPOOL, UK
NOVEMBER 4-6, 2008

The Hydrographic Society UK, on behalf of the International Federation of Hydrographic Societies, is to stage the 16th International Hydrographic Symposium, Hydro8, in Europe's 2008 Capital of Culture, Liverpool. To be held at the City's historic Britannia Adelphi Hotel, the three-day event will feature a main conference and an exhibition of equipment and services in addition to a series of workshops, equipment demonstrations, mid-afternoon technical visits and a social programme highlighted by a special Symposium Dinner in Liverpool's celebrated Georgian Town Hall.

Conference proceedings will cover a wide range of contemporary survey and environmental-related issues under the theme, New Opportunities. Scheduled topics include Deep Water Terminal Challenges, Sediment Hydraulics/Dynamics for Dredging, ENCs, Tidal Predictions, the EU Water Framework Directive & Its Hydrographic Implications, Wind Farm Development, and Latest Acoustic & Multibeam System Developments and Applications.

Abstracts of not more than 300 words on any of these topics and related technical issues are required by no later than 31 March.

Hydro8, which is expected to attract a worldwide delegate audience and over 50 major exhibitor companies and organisations,

For further information about abstract submission and further general details contact:
www.hydro8.org.uk