

# CEDA DREDGING DAYS 2005

2 - 4 November 2005  
Ahoy' Rotterdam, the Netherlands

## Dredging: The Extremes

CONFERENCE AND EXHIBITION  
In conjunction with Europort Maritime 2005  
1 - 5 November 2005  
Ahoy' Rotterdam

### Enquiries

#### Technical programme

Anna Csiti  
CEDA Secretariat, RADEX Building  
Rotterdamseweg 183c  
2629 HD Delft  
The Netherlands  
Tel.: +31 (0)15 268 25 75  
Fax: +31 (0)15 268 25 76  
E-mail: [ceda@dredging.org](mailto:ceda@dredging.org)  
Website: [www.dredging.org](http://www.dredging.org)

#### Dredging Exhibition adjacent to the Conference Centre

Elly de Ruijter  
Ahoy' Rotterdam  
Ahoy'-weg 10  
3084 BA Rotterdam  
The Netherlands  
Tel.: +31 (0)10 293 32 50  
Fax: +31 (0)10 293 32 18  
E-mail: [e.deruijter@ahoy.nl](mailto:e.deruijter@ahoy.nl)

### Registration

#### Conference Secretariat

Management Partnership International BV  
's Lands Werf 20 - 21  
3063 GA Rotterdam  
The Netherlands  
Tel.: +31 (0)10 414 97 79  
Fax: +31 (0)10 413 50 22  
E-mail: [info@mpi-rotterdam.nl](mailto:info@mpi-rotterdam.nl)

[www.dredging.org](http://www.dredging.org)

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Such was the enthusiasm and quality of the response to the Call for Papers that the conference has been extended to two and half days.

# Introduction

It is not uncommon that dredging projects have to or help to achieve something extraordinary, that they have to meet extreme requirements or that they have to be undertaken in extreme environments - whether physical or regulatory. The extremes are found in many different areas and on different levels: Dredging soft silt or excavating of hard rock; trailing suction hopper dredgers, ranging in size from less than 100 m<sup>3</sup> to over 30,000 m<sup>3</sup>; dredging diamonds off the coast of Namibia. Dredging diamond is extreme in different ways, the dredger, being a crawler is that placed on the seabed at depth over one hundred meter, while its valuable product, diamonds, is less than 10-4 percent of the dredged volume. The creation of the 'Palms and the World', the largest man-made islands in the world, was certainly an extraordinary operation. Just as operations in space contribute to terrestrial advance, dredging operating in extreme conditions can contribute to the mundane dredging operations.

Our society continues to present new challenges to the dredging industry forcing it to look for advances in accuracy, environmental safety, cost effectiveness and increased robustness of dredging plants and processes under severe weather and/or sea-state conditions. The responses to these challenges require novel, smart approaches, innovation, progressive improvement and the development of specialised dredging equipment and techniques.

CEDA Dredging Days 2005 will look at the extremes. It will present a state-of-the-art review of demand and of supply. The aim is to discuss and share ideas and to initiate the exchange of experience and technology.



## Dredging Exhibition

To complement the conference, a small dredging exhibition will be located in the foyer of the technical session room. Delegates will be able to take their refreshments in this exhibition during the breaks between the sessions. The Reception on Thursday evening will also take place in this area. The central location of the exhibition area will provide an opportunity for the exhibitors to present their products and services to a select and focused group of international experts and decision-makers. The exhibition will be open, for Dredging Days delegates only, throughout the two days of the conference on 3 - 4 November.

The standard 6m<sup>2</sup> (2x3 m) stand fee is € 1200 for corporate members of CEDA and € 1900 for other firms and organizations. The booking fee will include a fascia board (30 cm high) with company name, one table (80x80 cm), two chairs, one basic electrical outlet (220 V), two spotlights, two exhibition staff registrations (including lunch and refreshments during breaks) and company information (maximum 100 word) in the conference programme booklet. Those attending the conference as exhibition booth staff will not be admitted to the technical sessions but will be invited to the reception on Thursday evening. Space is limited and will be assigned on a first come first served basis. To request information or to reserve an exhibition booth please contact Elly de Ruijter at Ahoy' Rotterdam (tel.: +31 (0)10 293 32 50, e-mail: e.deruijter@ahoy.nl) or visit the CEDA web site: [www.dredging.org](http://www.dredging.org).

## Europort Maritime 2005

The CEDA Dredging Days 2005 are being held in association with the EUROPORT MARITIME 2005 Exhibition for the international maritime and dredging industry which will be held at the Ahoy' Rotterdam from 1 – 5 November 2005. EUROPORT MARITIME 2005 will be open to visitors at the following times:

Tuesday 1 November	11.00 - 18.00 hrs
Wednesday 2 November	11.00 - 22.00 hrs
Thursday 3 November	11.00 - 22.00 hrs
Friday 4 November	11.00 - 18.00 hrs
Saturday 5 November	10.00 - 17.00 hrs

For more information: [www.europortmaritime.com](http://www.europortmaritime.com)



## THE CITY OF ROTTERDAM

For long the world's largest port, Rotterdam situated where the rivers Rhine and Maas is continuously expanding and developing new facilities to maintain its position amongst the leading ports of the world. Because of its strategic position a wide range of very modern infrastructure and facilities has been established. It is not only the most important commercial city of the country, but also the 'Gateway to Europe', serving as a centre for the handling and distribution of general cargo, dry and liquid bulk for the hinterland (Germany, Switzerland, France, Belgium and the former Eastern Bloc countries). Rotterdam is the second largest city of the Netherlands, with approx. 600,000 inhabitants (> 1 million including Greater Rotterdam) of more than

100 nationalities. Rotterdam Erasmus University ranks among the top universities of the world, especially in the medical and economic sciences. Rotterdam is the home base for many important industries, especially in the petrochemical field, pharmaceuticals, banking and insurance, high-tech and science. Because of the strategic position of the largest port in the world a wide range of very modern infrastructure and facilities are established.

Modern roads, railways and highly sophisticated public trains and bus facilities make travel easy. The need to accommodate the ever increasing freight traffic, and specifically extensive container terminals and to maintain access for the worlds biggest tankers and container vessels has led the port of Rotterdam to develop great expertise in the practical application of dredging technology. This expertise covers almost every facet of dredging not only within the confines of the harbours and fairways, but also for the reclamation of new land and the disposal of contaminated dredged material. This makes it the ideal venue for a dredging congress.



### City of architecture

Rotterdam is a city of delightful contrasts. The past, Because of the strategic position of the largest port in the world a wide range of very modern infrastructure and facilities are established present and the future are interrelated in a dynamic townscape. The centre of Rotterdam was badly bombed in 1940 during World War II, but extensive post war reconstruction produced a modern, streamlined metropolis with imposing buildings. Rotterdam is a

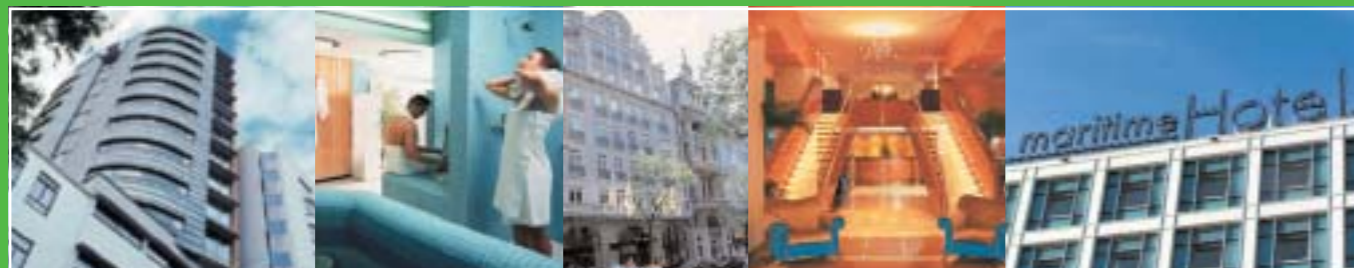
'City of Architecture', with an imposing skyline along the riverbanks, (Manhattan on the Maas), enhanced by the 'Willems' and 'Erasmus' bridges. For those who want to spend some time in this 'New Rotterdam', the city offers an array of attractions from shopping and sporting to cultural and gastronomic. A highly sophisticated public metro, tram and bus system makes life easy for the visitor. For more information: [www.rotterdam.info](http://www.rotterdam.info)

### Accessibility

Rotterdam is just 20 minutes from Rotterdam Airport and only 40 minutes from Amsterdam Schiphol Airport. From Amsterdam Schiphol Airport there is a direct train connection (45 minutes) to Rotterdam Central Station (5 minutes from the Centre of the city). Rotterdam Airport offers a fifteen minutes connection to the town centre. Linked to the European high-speed rail network, Rotterdam is within easy reach of Brussels, Paris and London. There is a direct Metro connection from the City Centre to the Ahoy' Rotterdam Exhibition and Conference Centre.

## HOTEL RESERVATIONS

Blocks of rooms have been reserved for delegates and guests by Hotel Service Rotterdam in the hotels shown below. Each hotel is in the city centre next to a Metro station with connection to the Ahoy' Rotterdam Exhibition and Conference Centre (a city map is available on: [www.rotterdam.nl](http://www.rotterdam.nl)).



Hotel	Rate per room per night	Breakfast per person per day	Contact details	Cut-off date
Bilderberg Parkhotel 4*	Single: € 205 Double: € 245	included	<a href="http://www.parkhotelrotterdam.nl">www.parkhotelrotterdam.nl</a>	22 August 2005
NH Atlanta Hotel 4*	Single: € 105 Double: € 105	€ 16	<a href="http://www.nh-hotels.nl">www.nh-hotels.nl</a>	19 September 2005
Maritime Hotel 3*	Single: € 75 Double: € 83	included	<a href="http://www.maritimehotel.nl">www.maritimehotel.nl</a>	19 September 2005

Please note that after the indicated date the contracted hotels no longer guarantee the availability of rooms.



To make a reservation in one of the above hotels

please contact Hotel Service Rotterdam:

Tel.: +31 (0)10 414 7314

Fax: +31 (0)10 214 0108

E-mail: [reservations@hotelservicerotterdam.nl](mailto:reservations@hotelservicerotterdam.nl)

Website: [www.hotelservicerotterdam.nl/cedadredgingdays2005](http://www.hotelservicerotterdam.nl/cedadredgingdays2005)

Please refer to 'CEDA Dredging Days'.

For low budget accommodation reservations please contact:

Rotterdam Tourist Information:

Tel: +31 (0)900 403 4065

Fax: +31 (0)10 413 31 24

Website: [www.rotterdam.info/hotel](http://www.rotterdam.info/hotel)

NOTE: reservations should be made in good time, as there will be many visitors in Rotterdam during the EUROPORT MARITIME 2005 exhibition.

### Technical visit

**Wednesday 2 November 2005,  
13.00 hrs - 16.30 hrs**

On Wednesday afternoon, there will be an opportunity to visit the 'Slufter'. The 'Slufter', with a volume of 1 million m<sup>3</sup> meters is probably the largest Confined Disposal Facility for dredged material in the world.

is located in the Maasvlakte industrial area of the Port of Rotterdam. Besides storing contaminated dredged material, there are also facilities for sand extraction and ripening of dredged material for beneficial use. Participants will receive detailed information about the various aspects of the disposal facility and will make a round trip on the dike.

The drive to the 'Slufter' takes about three quarters of an hour. During the ride interesting features of the Rotterdam industrial area can be seen and will be explained. Buses will depart at 13.00 hrs from Ahoy' Rotterdam (parking lot in front of the main entrance). After the programme at the 'Slufter' the participants will board a ship on which a guided tour will be made through the port of Rotterdam. On board some light refreshments will be served. The estimated time of return to the centre of the city is around 16.30 hrs.

There is an extra charge for the tour: Euro 50,00 (incl. VAT) per person. Please refer to the registration form. Please also note that places for the tour are limited and will be allocated on a first-come-first-served basis.



## THURSDAY 3 NOVEMBER

- 09.00** **OPENING ADDRESS**  
*R. Wurpts, President CEDA*
- 09.05** **KEYNOTE SPEECH: Ports & Shipping: Important drivers for the dredging industry.**  
*K. Fejfer, Chief Executive of APM Terminals International BV, The Netherlands*
- 09.30 - 10.45** **SESSION 1: DREDGING IN COMPLEX REGULATORY ENVIRONMENTS**  
*Chair: T.N. Burt, HR Wallingford Ltd., United Kingdom*
- Port development in the face of regulatory adversity: the case of Harwich Haven, UK.**  
*John S.A., Haskoning UK Ltd and Brien J., Harwich Haven Authority, United Kingdom*
- Dredging the largest deep-draft navigation project in the US history in a complex regulatory environment.**  
*McGuckin K.D. and Dietrick S., New York State Dept of Env. Protection; Gallo J., Corps of Engineers; Vogel L.E., New York State, United States of America*
- Where FEPA meets the government view: marine aggregates for beach replenishment.**  
*Carlin D.J.; Boyd S.E.; Vivian C.M.G and Faire S.O., Cefas, United Kingdom*
- 10.45 - 11.15** **COFFEE BREAK**
- 11.15 - 12.30** **SESSION 2: JETTING**  
*Chair: W.J. Vlasblom, Delft University of Technology, The Netherlands*
- Jetting in clay.**  
*Nobel A.J., TU Delft and Baggermaatschappij Boskalis bv, The Netherlands*
- 'Wild Dragon' Developing a draghead for dredging extremely fine, hard packed aquatic soils.**  
*Versteeg G.J.P., IHC Parts & Services B.V; Ooijens S.C. and Hofstra C.F., MTI Holland B.V., The Netherlands; Lin F., Shanghai Dredging Corporation, China and Kramers C.H.M., IHC Holland Dredgers B.V., The Netherlands*
- The DRACULA-system pushes the limits of hopper dredgers in cemented sand and harder soils.**  
*Vandycke S., Van den Broeck M. and Thomas K., Dredging International N.V., Belgium*

- 12.30 - 14.00** **LUNCH BREAK**
- 14.00 - 15.40** **SESSION 3: CASE STUDIES**  
*Chair: C.J. Verkaik, IHC Holland N.V., The Netherlands*
- Dredging in China under strict environmental controls.**  
*Nipius L.J., Boskalis, The Netherlands and Rijnbeek R., CNOOC and Shell Petrochemicals, China*
- Dubai's extreme reclamations.**  
*Jong R.J. de, Lindo M.H. and Gelderen P.J.G., Van Oord Dredging and Marine Contractors, The Netherlands and Fernandez J. Nakheel, United Arab Emirates*
- Quality improvement of dredged sand on board of a trailing suction hopper dredger.**  
*Vlasblom W.J., Delft University of Technology; Hoff J. van 't, Van 't Hoff Consultancy and Rhee C. van, Van Oord Dredging and Marine Contractors, The Netherlands*
- Deepening the wreck of the Assi Euro Link by using the trailing suction hopper dredger 'Prins der Nederlanden'.**  
*Jacobs B., Boskalis, The Netherlands*
- 15.40 - 16.10** **COFFEE BREAK**
- 16.10 - 17.25** **SESSION 4: ENVIRONMENT**  
*Chair: N. Smith, British Waterways, United Kingdom*
- Environmental aspects of dredging and port construction around coral reefs.**  
*Corcoran E., UNEP, United Kingdom; Dolmans C., IADC, The Netherlands; Bray N., Dredging Research Ltd, United Kingdom and Datta A., UNEP/GPA, The Netherlands*
- Dredging and sea level rise: the case of the Niger Delta.**  
*Odunsi H.O., Cardiff University, United Kingdom*
- Impact from near shore nourishment on benthos and fish the near shore environment.**  
*Ingvardsen S.M., The Danish Coastal Authority; Støttrup J.G. and Dolmer P., Danish Institute for Fisheries, Denmark*
- 17.25 - 18.00** **Annual General Meeting of CEDA**
- 18.00 - 19.00** **CEDA Netherlands Reception**
- 19.00 - 21.00** **EUROPORT MARITIME 2005**

## FRIDAY 4 NOVEMBER

- 09.00 - 10.15** **SESSION 5: ADVANCES IN SCIENCE AND TECHNOLOGY - PART 1**  
*Chair: B. Malherbe, Jan De Nul NV, Belgium*
- Revision of the nautical bottom concept in Zeebrugge, based on the manoeuvrability of deep-drafted container ships.**  
*Delefortrie G and Vantorre M., Ghent University; Laforce E., Flanders Hydraulics Research, Belgium*
- Determination of solids-concentration profile in slurry pipe using radiometric method.**  
*Geus A.M. de and Matousek V., Delft University of Technology, The Netherlands*
- Design and dry-land tests of a walking submersible dredger/miner.**  
*Sarkar S. and Bose N., Memorial University of Newfoundland, Canada and Sarkar M.K., EEM (P) Ltd., India*
- 10.15 - 10.45** **COFFEE BREAK**
- 10.45 - 12.25** **SESSION 6: ADVANCES IN SCIENCE AND TECHNOLOGY - PART 2**  
*Chair: C. van Rhee, Van Oord Dredging and Marine Contractors NV, The Netherlands*
- Hopper dredger hull design for shallow waters.**  
*Jager A. de and Verheijen L.T.G., IHC Holland Dredgers BV, The Netherlands*
- Dropping anchor impact and penetration in soft clay and rockfill.**  
*Luger H.J., GeoDelft and Aanen L., WL | Delft Hydraulics, The Netherlands*
- Morphodynamic-numerical simulations of dredged matter open disposal.**  
*Wurpts A. and Mewis P., Technische Universität Darmstadt, Germany*
- Extreme long geotubes.**  
*Zijl P.M.N. van, Vlasblom W.J. and Gijt, J.G. de, Delft University of Technology; Broos E.J., Rotterdam Public Works and Boer J. de, Geopex Products Europe b.v, The Netherlands*

- 12.25 - 14.00** **LUNCH**
- 14.00 - 16.05** **SESSION 7: TECHNICAL PROGRESS**  
*Chair: A. Benali, Drapor, Morocco*
- Special features on new mega-cutter dredger d'Artagnan improve performance and flexibility.**  
*Gabridl J.; Stroo S. and Clijmans E., Dredging International N.V., Belgium*
- Auger head; the perfect tool for (extreme) environmental dredging operations?**  
*Vlies T. van der, Damen Dredging Equipment, The Netherlands*
- High efficiency cutter special pumps. A new series of dredge pumps specifically designed for use on heavy duty cutters.**  
*Bugdayci H.H., IHC Holland Parts & Services B.V., Vercrujssse P., MTI Holland BV, Toet V. and Boor M., IHC Holland Beaver Dredgers BV; Berg C. van de and Grinwis H., MTI Holland BV, The Netherlands*
- Land reclamation under scrutiny.**  
*Wassenaar L.T. and Tutuarima W.H., The Netherlands*
- Full scale thermal treatment of highly Tri-butyltin (TBT) contaminated sediments.**  
*Goethals L.M.J.G., Envisan N.V., Belgium.*
- 16.05** **IADC Award**
- 16.15** **Closing**



## Poster presentations

### The challenges and opportunities of dredged material management in a sensitive coastal wetland environment.

*Ohimain E. I., Rohi Biotechnologies Ltd, Nigeria*

### Deep dredging engineering to the extreme.

*Put E., IHC Parts & Services BV and Vercrujssse P.M., MTI Holland BV, The Netherlands*

### Dredging and acceptable sediment load on coral reefs.

*Nieuwaal M., Heerema Marine Contractors Nederland b.v and Donze M., Donze Environmental Research, The Netherlands*

### NWE Delta, a European project on sustainable dredging.

*Geense M. and Heijer C. den, Delft University of Technology, The Netherlands*

### Third generation rock cutting system for cutter dredges with 3000-6000 kw cutter power; field test results.

*Wijma K, VOSTA LMG, The Netherlands*

*Note: The organisers reserve the right to adjust or change the programme as necessary.*

*A final programme will be circulated with the September issue of DPC and will be provided upon arrival to each registrant.*



## ACCOMPANYING PERSONS' PROGRAMME

### Thursday 3 November 10.30 - 15.30 hrs

Visit to the 'Smaakcollege', a college, which is unique in the gastronomic field, where you will be given a fabulous master class in preparing a 'high tea' and enjoy tasting it yourself in a perfect ambiance. Cost: Euro 75,00 per person (min. 12 persons).

### Friday 4 November 09.30 - 16.00 hrs

Old and New Architecture in Rotterdam. A guided tour, which will show you the highlights of modern architecture and the historic buildings in the old harbour area as well as through the 'tree lined' avenues of the residential areas of the city. Cost: Euro 75,00 per person (incl. coffee and lunch; min. 12 persons). For subscription see the registration form.



## Practical information

The Conference will be in English. Tea and coffee will be served during the breaks between sessions. Lunch will be provided to registered delegates during the breaks between morning and afternoon sessions. It is difficult to predict the climate in Rotterdam in November, but it may rain during your stay and temperatures may fall below freezing (though this is less likely to happen). Delegates and partners will spend much of their time indoors, but should be prepared to wrap up warmly when outdoors.

Participants should check with their local travel agent whether they need a visa for travelling to the Netherlands. If a visa is required, participants are advised to apply to the nearest Embassy or Consulate of The Netherlands at least 2 months before the intended date of travel. On request, the organisers will be pleased to send a personal invitation to prospective participants of the conference. Such invitations can only be issued for the purpose of assisting participants to raise travel funds or obtain visas. No financial commitment on the part of the organisers is implied. Please indicate on the conference registration form if you wish to receive a letter of invitation.

### IADC Award

The International Association of Dredging Companies Award for a contribution to the literature on dredging will be presented for the best paper of the conference by an author under 35 years of age.

### Conference proceedings

All papers, platform or poster, will be peer reviewed and published in the Conference Proceedings on a CD-ROM. A bound volume containing the platform papers will also be produced. Both publications will be distributed to all delegates available to all registered delegates at the start of the conference. Additional copies of the CD-ROM may be ordered at extra cost (Euro 60.00 for CEDA/EADA/WEDA members and Euro 90.00 for non members; prices do not include packing and postage).



### CEDA NETHERLANDS RECEPTION, Thursday, 3 November 2005, 18.00 - 19.00 hrs

The Reception will follow the Annual General Meeting of CEDA and will take place in the foyer of the Technical Session Room where the Dredging Exhibition is located. Dredging Days delegates, exhibitors and partners and all CEDA members are invited (the EUROPORT MARITIME 2005 Exhibition is open until 22.00 hrs on this evening).



## CEDA Dredging Days 2005 at Ahoy' Rotterdam

CEDA Dredging Days 2005 will be held from 2 to 4 November 2005 at the Conference Centre of Ahoy' Rotterdam, Ahoy'-weg 10, 3084 BA Rotterdam, The Netherlands. Ahoy' Rotterdam, a truly multifunctional venue, will provide accommodation to EUROPORT MARITIME 2005 and to the CEDA Dredging Days 2005 conference under one roof. The conference centre is on the first floor and can be reached through the main entrance of the complex. Ahoy' Rotterdam is easily accessible by car and public transport. For details visit the Ahoy' Rotterdam website ([www.ahoy.nl](http://www.ahoy.nl)).

### REGISTRATION: [WWW.DREDGING.ORG](http://WWW.DREDGING.ORG)

If you wish to participate in the conference please make your complete registration on line at [www.dredging.org](http://www.dredging.org). If this is not possible please complete the registration form included or download this form from the website and send it to the Conference Organisation (see address details at registration form). Members of CEDA (all individual members and employees of corporate members of CEDA are eligible for registration at the member's rate), EADA and WEDA: registration fee Euro 335,00 Non-members and Euro 450,00 for (incl. VAT). The VAT can be reclaimed from the Dutch Tax Authorities. Forms will be available at the registration desk.

Students fee Euro 50,00 (Student Registration is only accepted on receipt of letter of endorsement and a copy of the student card. Students registering at the special student rate are expected to assist the conference organisers with on-site registrations and during the conference and with other tasks that will not prevent their attending the technical sessions and social functions). Speakers and PhD students will have a 50% discount.

The registration fee includes: conference sessions on 3 & 4 November, free entrance to the EUROPORT MARITIME 2005 exhibition, a full set of conference documents, the official EUROPORT MARITIME 2005 exhibition catalogue, morning coffee, lunch and afternoon tea on 3 & 4 November, as well as the CEDA-Netherlands Reception, which will be held on 3 November 2005. A charge of Euro 50,00 (incl. VAT) will be made for the technical visit on Wednesday 2 November. After receipt of the payment, delegates will be sent a confirmation, which should be presented at the registration desk,

#### Registration desk

The registration desk will be open on:

<b>Wednesday 2 November</b>	<b>from 12.00 - 13.00 hrs for Pre-registration</b>
<b>Thursday 3 November</b>	<b>from 08.00 - 19.00 hrs</b>
<b>Friday 4 November</b>	<b>from 08.30 - 16.00 hrs</b>

## Organisation

CEDA Dredging Days 2005 is organised by Ahoy' Rotterdam under the auspices of the Central Dredging Association (CEDA). Management Partnership International B.V. (MPI) has been appointed as the Conference Secretariat.

## Sponsors

The organisers wish to thank the following organisations for their support.



*Ahoy' Rotterdam (Reception)*



*Dredging and Port Construction Magazine -DPC (Technical tour, boat trip)*



*IHC (Reception, conference bags)*



*Port of Rotterdam (Technical tour)*



*VOSTA LMG (Reception)*



*VBKO - Dutch Association of Contractors in Dredging and Shore Protection (Reception)*

*Sponsorship opportunities are still available. For information please contact CEDA or the Conference Secretariat.*

## International Technical Paper Committee

**Chairman:** Prof. W.J. Vlasblom, Delft University of Technology, The Netherlands

**Members:** Mr. A. Benali, Drapor, Morocco  
Dr. A. Csiti (CEDA, General Manager)  
Ir. B. Malherbe, Jan de Nul NV, Belgium  
Mr. N. Smith, British Waterways, United Kingdom  
Ir. C.J. Verkaik, IHC Holland, The Netherlands  
Dipl.-Ing. R. Wurpts, Port Authority Emden, Germany

#### Coordinating Committee

Dipl. Ing. R. Wurpts (CEDA, President)  
Dr. A. Csiti (CEDA, General Manager)  
Mr. P. Niemantsverdriet (Exhibition Manager Ahoy' Rotterdam)