

Sharing International Experience on
Practical Solutions to Coastal Management

ICE COASTAL MANAGEMENT 2015

Changing Coast, Changing Climate, Changing Minds

International Conference and Exhibition

7 – 9 September 2015

Hilton Hotel, Amsterdam



CIWEM

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The 8th event in this renowned series, ICE Coastal Management 2015 will bring together 200 coastal experts to share knowledge, research and best practice.

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ICE COASTAL MANAGEMENT 2015: CALL FOR PAPERS CONFERENCE

A record number of abstract submissions from more than 30 countries were received for Coastal Management 2015, the 8th event in this firmly established conference offered every four years by the Institution of Civil Engineers.

Following vigorous peer review, the top 80 papers will be presented and will offer practical learning, innovative and integrated solutions and encourage new ways of understanding and managing our coasts.

An additional poster display showcasing noteworthy projects, dedicated exhibition and technical visit, workshop and social events will complete this international gathering – drawing together engineers, scientists, coastal management professionals and students from around the world.

INTERNATIONAL KNOWLEDGE SHARING

We look forward to welcoming speakers, organisations, government representatives and delegates from across the globe to share their knowledge and leave with a new understanding of our coastal regions.

All presentations and proceedings will be offered in English.

TIMETABLE

Monday 7 September 2015

- 12:00 - 17:00 Technical visit
- 13:00 - 17:00 Workshop
- 19:00 Welcome cocktail reception at the Hilton

Tuesday 8 September 2015

Conference Day One

- Post conference cocktail reception
- Conference dinner

Wednesday 9 September 2015

Conference Day Two

- 16:00 Close of conference



WHY ATTEND

- Access the latest coastal management developments - 80 peer reviewed paper presentations
- Network with 200 coastal experts from around the world
- Commercial opportunities - a technical exhibition will be an integral part of conference programme
- Accompanying workshop and technical visit
- Explore the Netherlands – networking dinner and social activities



DAY ONE

08:30 Registration and Coffee

10:00 Start of Conference

Welcome from the Chair

Alison Baptiste, **Environment Agency**

Keynote Address

Changing Coasts, Changing Climate, Changing Minds - A Realistic Proposition or an Ideological Dream

Kevin Burgess, **CH2M HILL**

Gregor Guthrie, **Royal HaskoningDHV**

Changing Societies Interacting with Changing Coasts: A Case Study of Bangladesh

Margriet Hartman, **Royal HaskoningDHV**

US North Atlantic Coast Comprehensive Study - Resilient Adaptation to Increasing Risk

Jonathan Simm, **HR Wallingford**

11:05 Questions and Answers

11:15 Refreshments, Networking and Exhibition

11:45 Streams

Stream 1	Stream 2	Stream 3
<p>Impacts and Lessons from the December 2013 Storm around the North Sea</p> <p>Jaap Flikweert, Royal HaskoningDHV</p>	<p>Delivering Large Habitat Restoration Schemes: Lessons from the Steart Coastal Management Project</p> <p>James Scott, CH2M</p>	<p>A New Coastal Change Adaptation Planning Guide for England</p> <p>Alan Frampton, CH2M</p>
<p>How Do Civil Engineers See the Coast They Manage - A Comparative Approach between the Netherlands, England and France</p> <p>Servane Gueben-Veniere, University of Paris 1 and Centre Michel Serres</p>	<p>Understanding the Physical Processes Occurring within a New Coastal Managed Realignment Site, Medmerry Coastal Flood Defence Scheme, Sussex, UK</p> <p>Heidi Burgess, University of Brighton</p>	<p>Adaptation to Property Loss due to Coastal Cliff Instability and Erosion: Case Study into the Knipe Point Cliff Retreat Pathfinder Project</p> <p>Robin Siddle, Scarborough Borough Council</p>

Changing Perspectives - Exploring and Implementing the Realities of Sea Level Rise in the Coastal Community of Surrey British Columbia Canada

Carrie Baron, **City of Surrey, Canada**

Re-alignment of Coastal Defences by Land Owners/Farmers

Robert Caudwell, **Environment Agency**

Living with a Changing Coastline: Is Adaptation Possible under the Current UK Framework - A Case Study from North Norfolk, UK

Stephanie Hampshire, **Mott MacDonald**

Questions and Answers

Questions and Answers

Questions and Answers

12:55 Lunch

13:55 Streams

Stream 1	Stream 2	Stream 3
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Dutch Strategy for a Sustainable and Long-Term Safety of the Coast
Cees-Jan van Westen, **Ministry of Infrastructure and Environment, The Netherlands**

Interpretation of High Resolution Swath Bathymetry and Other Coastal Monitoring Data for Coastal Management, Marine Planning and Geological Mapping
Andrew Colenutt, **New Forest District Council**

Posters

Integrated Coastal Management Implementation in South Africa – In Practice Not Just Concept
Tandi Breetzke, **Royal HaskoningDHV**

“Perfilapp”: Bringing Beach Profile Monitoring to Smartphones - A Tool for Embracing Society into Integral Coastal Management Process
Alfonso Solis Pimentel, **Axis IMA**

Posters

A Short Guide to Doing Nothing at the Seaside
Nick Hardiman, **Environment Agency**

Lessons from Strategic Coastal Monitoring
Parsons

Posters

Understanding the Fiscal and Regulatory Mechanisms Necessary to Achieve Climate Compatible Development (CCD) in the

Assessing Coastal Vulnerability at the Yucatan State (Mexico)
Ernesto Mendoza Ponce, **Institute of Engineering of the National Autonomous University of**

Posters

Coastal Zone **Mexico (II UNAM)**

Lesley King, **LTS International**

Questions and Answers **Questions and Answers** **Questions and Answers**

15:25 **Refreshments, Networking and Exhibition**

15:50 **Streams**

Stream 1	Stream 2	Stream 3
<p>Changing a Coastline to Enhance Society: Lessons from Littlehaven Seawall Realignment, UK</p> <p>Nick Cooper, Royal HaskoningDHV</p>	<p>Results from the Dutch Ecobeach Pilot Project</p> <p>Bas Reedijk, BAM Infraconsult</p>	<p>Innovative Approaches in the Stabilisation and Erosion Protection of Coastal Slopes in Scotland</p> <p>Slobodan Mickovski, Glasgow Caledonian University</p>
<p>Regeneration of the Colwyn Bay Waterfront</p> <p>Alan John Williams, Coastal Engineering UK</p>	<p>Monitoring Coastal Change at Close Range - Capturing Dune Recovery Processes Following the East Coast Storm Surge 2013</p> <p>Jim Chandler, Loughborough University</p>	<p>East Cliff, Lyme Regis: The Challenges of Coastal Protection and Slope Stabilisation of an Historic Town and Community within a World Heritage and Special Area of Conservation Site</p> <p>Roger Moore, Balfour Beatty</p>
<p>Planning for Change on the Lincolnshire Coast</p> <p>Kevin Burgess, CH2M HILL</p>	<p>A Case Study Comparing Dutch-Danish Foreshore Nourishments and Effects of Alongshore Transportation Rates</p> <p>Quirijn Lodder, Ministry of Infrastructure and Environment, the Netherlands</p>	<p>Coastal Catch-up Following Defence Removal at Happisburgh</p> <p>Michael Walkden, WSP</p>
Questions and Answers	Questions and Answers	Questions and Answers
17:00	Fixed End of Sessions	
17:45	Check-In/Board Bus for Dinner	
18:00	Buses Depart for Dinner	

DAY TWO

08:45 Registration and Coffee

09:15 Streams

Stream 1	Stream 2	Stream 3
<p>Coastal Protection for Ada, Ghana – A Case Study</p> <p>Annelies das Neves, IMDC</p>	<p>Adaptive Estuarine Management in Micro to Hyper Tidal Environments</p> <p>Paul Canning, Atkins</p>	<p>Posters</p>
<p>Nearshore Breakwater Design and Construction for Coastal Protection – The Case of a Mangrove-Protected Eroding Beach Along a Storm-Tracked Philippine Coastline</p> <p>Eric Cruz, University of the Philippines</p>	<p>Wallasea Island Wild Coast – Working with Nature to Achieve Flood Protection and Community Benefits at a Landscape-Scale</p> <p>Colin Scott, ABPmer</p>	<p>Posters</p>
<p>Emulating Nature by Building an Island Style Breakwater for the Ft. Pierce Marina</p> <p>Jack Cox, Smith Group JJR</p>	<p>"Wash"-ing up a Sustainable Coastal Strategy</p> <p>Philippa van Kuijk, Royal HaskoningDHV</p>	<p>Posters</p>
<p>Questions and Answers</p>	<p>Questions and Answers</p>	<p>Questions and Answers</p>

10:25 Refreshments, Networking and Exhibition

10:55 Streams

Stream 1	Stream 2	Stream 3
<p>Schematisation and Implementation of the Moray Firth Flood Forecasting System</p> <p>Darroch Kaye, SEPA</p>	<p>Learning from Flood Events on Critical Infrastructure: Relations and Consequences for Life and Environment (Circle)</p> <p>Micheline Hounjet, Deltares</p>	<p>The St Jude's Storm - Just the Start</p> <p>Travis Mason, The National Oceanography Centre Southampton</p>

Tsunami Hazard and Risk Assessment and the Planning of Mitigation Measures - Case Study from the City of Galle

Sam Hettiarachchi

Coastal Communities 2150: Increasing Resilience to Climate Change through Community Engagement

John Gower, **Environment Agency**

Making Space for Shingle Barriers: The Benefits of Rolling Back

Uwe Dornbusch, **Environment Agency**

USACE Approach to Coastal Adaptation for Modified Future Climate Conditions and Extreme Events

Heidi Moritz, **United States Army Corps of Engineers**

Medmerry Managed Realignment: Changing the Minds and Coast of Sussex – A Case Study

Colin Maplesden, **Environment Agency**

A Review of the Cley-Salthouse Shingle Ridge Following the Storm Surge of 5 December 2013

Stephen Hayman, **Environment Agency**

Sea Level Rise Impact Assessment and Mitigation Alternatives Development for Balboa Island and Little Balboa Island, City Of Newport Beach, California

Robert Stein, **City of Newport Beach**

The Reality of Change: Involving Communities in Planning in Northwest Wales

Greg Guthrie, **Royal HaskoningDHV**

Long Term Loss of Beach Material from the Eastern English Channel

Ian Thomas, **Pevensey Coastal Defence**

Questions and Answers

Questions and Answers

Questions and Answers

12:25 Lunch

12:35 Streams

Stream 1

Blue is the New Green - Harnessing Urban Coastal Infrastructure for Ecological Enhancement

Shimrit Perkol-Finkel, **ECONcrete**

Stream 2

Holes Bay Rail Crossing - Maintaining Critical Infrastructure in a Highly Sensitive Environment

Simon Burchett, **WSP**

Stream 3

A Search for Alternative Concepts of Coastal Planning in Flanders and Future Development of the Port of Zeebrugge

Gijsbert van Holland, **International Marine & Dredging Consultants**

Ecosystem Based GHG Footprinting of Marine Engineering Projects

Jasper Fiselier, **Royal HaskoningDHV**

Adapting to Climate Change on the Suffolk Coastline through the Minsmere Flood Risk Management Scheme

Andrew Rouse, **Environment Agency**

Representing and Modelling Coastal Systems over a Regional Scale For Coastal Management

James Sutherland, **HR Wallingford**

Engineered Shoreline Protection - Case Study from the Jersey Shore on Material Selection Process, Sustainability, and Impacts from Superstorm Sandy

Arthur Chew, **TenCate**

Sandwich Town Tidal Defences: Preserving the Past, Protecting the Future

Jon Holland, **CH2M**

A Novel Technique for Rapid Flood Forecasting in Coastal Areas

Mathijs van Ledden, **Royal HaskoningDHV**

Questions and Answers

Questions and Answers

Questions and Answers

14:35

Refreshments, Networking and Exhibition

15:00

Building with Nature: Lessons from Across the Pond

Indigenous Coping Mechanisms to Coastal Perturbations in the Philippines

The Sand Motor – Building with Nature in Progress

Questions and Answers

Summary of the conference from the Chair

16:20

Close of Conference

THE HOST COUNTRY

Coastal Management is of global importance and we are delighted to bring ICE Coastal Management outside the UK for the first time.

The Netherlands was chosen as host country as it is highly active in coastal zone management, internationally accessible and a leading travel destination.

One quarter of the Netherlands is at or below sea level with many areas protected from flooding by dykes and sea walls, and much land reclaimed from the sea. As such it offers leading examples of innovation, technology and general management, and there are world leading best practice case studies to be drawn from Dutch experience.

Conference attendees will find plenty of options to complete their visit. Amsterdam is one of the most popular cities to visit in the world and home to beautiful 17th century canals and architecture. With the highest museum density in the world, cultural highlights include the Van Gogh Museum, Anne Frank House, Hermitage Amsterdam and the Rijksmuseum with Rembrandt's world-famous Nightwatch. The Hague, Rotterdam, Utrecht and Maastricht are nearby as of course is beautiful coastline, countryside and national parks to explore.

SOCIAL PROGRAMME

Beginning with the drinks reception on the evening of Monday 7 September at the Hilton, the social calendar supporting the event offers a relaxing opportunity for delegates to meet, make new contacts and catch up with old friends.

The gala dinner on Tuesday will be at the impressive Grand Hotel Huis ter Duin, a historic 5* hotel on the Dutch coast. It offers fine dining in the elegant surroundings of the permanent beach house and unparalleled networking with both speakers and delegates.

Hilton Amsterdam



TECHNICAL VISIT AND WORKSHOP

The conference programme offers two additional options:

Technical Visit:

ICE will be running a technical visit to the Delft Sand Motor. It will offer delegates the opportunity to visit the site of the Sand Motor and listen to a presentation from the experts who built and manage it. Further details will be announced shortly.

What's included: Coach transfers between the Hilton and Sand Motor, lunch, presentation and visit to the Sand Motor.

Pre-Conference Workshop:

ICE will also host a half day workshop covering 'How to teach engineers to interact in a political decision making environment.' Further details will be announced shortly.

What's included: Workshop, all course material, light refreshments.

VENUE AND ACCOMMODATION

The conference will take place in the Hilton Hotel in Amsterdam. Located in the most desirable shopping, working and cultural district of the city, rooms can be booked via the conference website.

A **special room rate is available** on a number of rooms being held for conference delegates at the hotel between September 7, 2015 - September 9, 2015. Supply is limited and will be available until August 7 or until the group block is sold-out.

Visit ice-coastalmanagement.com/venue to take advantage of this offer.





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We are global leaders in providing solutions to the world's water challenges living with water. Water introduces both opportunities and risks to communities and nature worldwide as urban populations grow, the climate changes and resources become increasing scarce.

We apply our international knowledge of rivers, deltas and coasts to respond to these challenges. Our technical expertise is applied at all stages, from strategy, planning, policy and funding advice, through analysis and assessment, to design, construction management and operation maintenance of assets. We work together with our clients and partners to enhance society by delivering flexible, innovative and sustainable solutions.

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Van Oord operates around the world as a leading contractor for dredging, marine engineering and offshore energy projects (oil, gas and wind), offering innovative solutions to marine challenges. The company operates worldwide in more than fifty countries.

Van Oord is a private company with limited liability and its head office in Rotterdam, the Netherlands. Having had a continual presence since 1924, Van Oord is well-known in the United Kingdom and Ireland.

Our employees are committed, entrepreneurial professionals who are passionate about water and technology. They understand that cooperation is crucial to achieving the best possible result. By being open and honest, they build mutual trust and respect.

Van Oord is a family-owned business offering marine solutions of value, both now and in the future. Safety, sustainability and continuity go hand in hand in this respect. Van Oord takes an interest in its value chain, which extends from suppliers to clients.

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Boskalis is active in projects in the energy and ports markets. Our main clients include oil companies, port operators, governments, shipping companies, international project developers, insurance companies and mining companies.

We operate in some 75 countries across six continents. Our versatile fleet consists of over 1,000 vessels and equipment.

Boskalis has a wide range of high-quality services to deal with a number of global trade and energy trends.

The addition of Boskalis company MNO Vervat gives us access to the Civil Infrastructure Market whilst Dockwise offers new strategic opportunities for accelerated growth of our offshore services for clients in the oil and gas sector.

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SPONSORSHIP / EXHIBITION

We have a membership base of over 80,000 members worldwide. ICE promotes and advances civil engineering around the globe and are recognised as a source of civil engineering expertise and representing the very best civil engineers.

Attendees will be international and from across all aspects of Coastal Management. If you would like to **enhance your brand perception** – through association with ICE's reputation, authority and excellence within the engineering profession, then contact **Shivani Budhdev**, Business Development Manager, on **+44 (0) 20 7665 2215** or email shivani.budhdev@ice.org.uk.

WHO WILL ATTEND

Those who are active in defending our coastlines and advancing coastal management and practices, whether through research, planning, projects, construction, development or maintenance.

This will include:

- Coastal and estuary managers/ Project managers
- Marine Engineers/Harbour Engineers/ Hydraulic Engineers
- Consulting engineers specialising in coastal management
- Contractors specialising in coastal management and marines
- Owners and developers of marine energy systems
- Operators of marine facilities
- Architecture planning and design personnel
- Coastal defence specialists/mangers
- Flood defence specialists/mangers
- Coastal management computer software and modelling technicians
- Coastal scientists
- Local and central government engineers and planners/regional managers
- Researchers/advisors and academics/ lecturers/professors
- Representatives of coastal groups and forums
- Students

ORGANISING COMMITTEE

The ICE Coastal Management Conference 2015 draws from the experience of the ICE, and an organising committee formed of key personnel working within the subject area.

INTERNATIONAL TECHNICAL COMMITTEE

Robert D. Brumbaugh	The Nature Conservancy
Sam Hettiarachch	University of Moratuwa
Nabil Ismail	Arab Academy for Science, Technology and Maritime Transport, Egypt
Shie-Yui Liong	National University of Singapore
Professor Robin	Coastal and Geotechnical Services
Denise Reed	The Water Institute of the Gulf, USA
Marcel Stive	TU Delft, the Netherlands
Bruce Thom	University of Sydney, Australia



ALISON BAPTISTE

Deputy Director Strategy Development
Environment Agency



HEIDI BURGESS

Civil Engineering Hydraulics Senior Lecturer
School of the Environment, University of Brighton



KEVIN BURGESS

Coastal Engineer
CH2MHill



TONY CAMILLERI

Managing Director
Mackley



BRYAN CURTIS

Principal Engineer
Adur and Worthing Councils



GREG GUTHRIE

Associate Director
Royal HaskoningDHV



PIPPA VAN KUIJK

Senior Consultant and Business Development
Royal HaskoningDHV



Please complete the registration form and return to the ICE Events team via:

Email: events@ice.org.uk

Fax: +44 (0)20 7665 2189

Post: Events Team, Institution of Civil Engineers, One Great George Street, London, SW1P 3AA

PLEASE SELECT THE TYPE OF REGISTRATION

Select the conference, dinner and either technical visit or workshop and save 10% on the total ticket price

CONFERENCE FEE	Price ¹ to 30 May	Price ¹ from 30 May
<input type="checkbox"/> Member / supporting association	£497	£547
Member number	Association	
<input type="checkbox"/> Non-member	£547	£597
<input type="checkbox"/> Local authority rate	£457	£457
<input type="checkbox"/> Student	£199	£199

EXTENDED PROGRAMME

<input type="checkbox"/> Dinner	£75	£75
<input type="checkbox"/> Technical visit	£65	£65
<input type="checkbox"/> Workshop	£80	£80

¹ All prices are excluding VAT, visit the website for more information.

Where did you hear about this event?

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Prefix _____ Date of birth _____

Last name _____

First name _____

Phone number _____

Email address _____

Job title _____

Organisation _____

Mailing address line 1 _____

Mailing address line 2 _____

City _____ Postcode _____

Country _____

Special requirements _____

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- Cheque (payable to the Institution of Civil Engineers)

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