LITTORAL 2016
BIARRITZ 25-29 October
THE CHANGING LITTORAL. ANTICIPATION AND ADAPTATION TO CLIMATE CHANGE


LITTORAL 2016 is funded by the EUROPEAN UNION with ERDF, the Region Aquitaine-Limousin-Poitou-Charentes, the French Ministry of Ecology, the Department of Pyrénées-Atlantiques, the City of Biarritz and the Agglomeration of Côte Basque-Adour

VENUE: BELLEVUE CONGRESS CENTER IN BIARRITZ

Littoral 2016 will include several scientific sessions (with call for abstracts), 6 keynote speakers, 7 thematic workshops, 2 post-Conference field-trips
Official language: English (with simultaneous translation English↔French when necessary)

REGISTRATION AND SUBMISSION OF ABSTRACTS

See the instructions on the site http://littoral2016.univ-pau.fr/
Dead line for submission of abstracts: 15th March 2016
Dead line for early registration: 1st June 2016

Reduced fee before 1st June:
€ 300 for EUCC members (€ 400 after)
€ 450 for non-members (€ 550 after)
€ 120 for members students (€ 140 after)
The fee includes:
3 days of Conference (25-27th October)
Lunches and coffee breaks during the Conference
Visit of the Sea Museum of Biarritz (25th October)
Printed & digital (USB key) Littoral2016 abstract book and programme
Conference materials (bag, pen & writing pad, tourist documentation)
It does not includes Gala dinner (27th October, € 35) and both field trips (€ 85 and € 95)
Littoral 2016 "The changing littoral. Anticipation and adaptation to climate change" is the 13th conference of the traditional biennial international event of the Coastal & Marine Union (EUCC). This NPO/NGO was founded in 1989 to promote coastal conservation and sustainable development. It wanted to bridge the gap between scientists, environmentalists, site managers, planners and policy makers. It is presently the largest network of coastal experts in Europe with 15 national branches and several regional offices (the last one "EUCC- Atlantic Center" was created in July 2015 in Biarritz). EUCC-France, the French branch, is proud to organize this conference in Biarritz.

Littoral 2016 will focus on the necessary adaptation and anticipation of coastal management to global change. It concerns the shoreline mobility but also the biodiversity response, in a context of increasing human pressure in coastal areas. It is important to anticipate the natural shoreline mobility in any management strategy. A "good" strategy considers the long term evolution and not the short term profitability, an idea somewhat difficult to impose not only to policy makers and managers but also to a wide part of the population.

In any case, the first step to choose the good management strategy in coastal areas is to have a good knowledge of natural processes and take into account the socio-economical and political context as well. Nothing can be done properly if the population does not feel concerned and is not correctly informed and aware of the main stakes. The goal of Littoral 2016 is to take stock of the current knowledge, new tools and approaches and also to emphasize the lack of knowledge in some cases and propose new research areas.

All aspects of coastal research will be presented during the ordinary sessions. The topics of six of the seven workshops have been chosen to address some important stakes that managers, state, regional and local services, elective representatives and after all the whole civil society have to surmount.

Littoral 2016 is funded by the European Union with the European Regional Development Fund, and also by the great Region Aquitaine-Limousin-Poitou-Charentes, the French Ministry of Ecology and Sustainable Development, the Department of Pyrénées Atlantiques, the City of Biarritz and the "Agglomération of Côte Basque-Adour". All of them are greatly acknowledged.

We thank also the Coastal & Marine (EUCC) network and all our partners (scientific and institutional) in France and Europe for their involvement and support to make a success of this international conference. We especially thank the Sea-Center of Biarritz which presently hosts EUCC-France.
KEYNOTE SPEAKERS (PLENARY LECTURES)

- **Gerald Schernewski**, Prof. Dr. habil. Gerald Schernewski is head of the group Coastal Research & Management at the Leibniz-Institute for Baltic Sea Research in Warnemünde. He was Guest-professor at St. Petersburg State University, Russia, the University of the Algarve, Faro, Portugal, the International Ocean Institute, Malta, and presently has a professorship at Klaipeda University, Lithuania. He is author of 100+ publications on coastal and marine issues. He is coordinator of national projects, has and had coordination tasks in international projects like CHARM, OURCOAST, SPICOSA, AMBER, SUSTAIN, GENESIS and is co-ordinator of the BONUS-project BaltCoast. He serves as an international expert on ICZM for many organisations, like, EU, EEA, UNEP, UNESCO and HELCOM and is president of the international NGO EUCC-Coastal and Marine Union, Leiden, The Netherlands.
  
  Topic: "Integrated Coastal Zone Management - State and Perspectives".

- **François Schmitt**, is research Professor at CNRS (Directeur de recherche). He has co-authored over 150 papers, among which more than 110 in international journals. He got an engineer diploma from ENSTA Paris Tech and has a PhD and habilitation degree from University of Pierre and Marie Curie (Paris). He has been director of the Laboratory of Oceanology and Geosciences (CNRS, University of Lille and Université du Littoral Côte d’Opale) since 2006. He is regularly organizing sessions in the European Geoscience Union (EGU) general assemblies, in the nonlinear processes in geophysics (NPG) division and is Science officer at NPG division for scaling and stochastic processes. His general research topics include turbulence, complexity in the ocean, stochastic and scaling processes and methods in geosciences. He is also editor for *Earth System Science Data* (Copernicus Publications), *PLoS ONE*, and *Springer Plus* journals. He recently published with his former student Yongxiang Huang (Xiamen University, China) a book: Schmitt, F.G. and Huang Y. *Stochastic analysis of scaling times series: from turbulence theory to applications*, Cambridge University Press (2015).
  
  Topic: "Multiscale analysis of water level time series (modeled and measured) and the dynamics of return times"

- **Andrew Cooper** is Professor of Coastal Studies at Ulster University in Northern Ireland. He has a BSc Honours degree in geology from Queen’s University, Belfast and MSc and PhD degrees in geology from the University of Natal, Durban. He is a specialist in coastal geomorphology and coastal zone management and in particular, understanding and adapting to coastal change. He has published more than 200 journal articles, 50 book chapters and ten books. His recent books include *Sand and Gravel Spits* (Springer (2015), The Last Beach (Duke University Press, 2014), The World’s Beaches (University of California Press, 2011) and Pitfalls of Shoreline Stabilization (Springer, 2012). He is Honorary Research Professor at the University of KwaZulu-Natal in South Africa and CNPq Special Visiting Professor at the Federal Universities of Rio Grande do Sul and Santa Catarina in Brazil.
  
  Topic: "Possible consequences of sea-level rise for the shoreline mobility on different time scales"
- **Per Sørensen**, Danish Coastal Authority, Head of Coastal Research.
  Per Sørensen holds a M.Sc. in Civil Engineering from Aalborg University with a specialization in coastal dynamics. He has more than 25 years of experience in research and practical projects in Denmark in practically all coastal research aspects. The focus has been on sediment transport, and sand nourishment. He has been participating in many international project, especially Interreg projects. Per has been author or co-author on more than 20 scientific papers, and co-author of the book Coastal erosion in Europe
  Per act as an advisor for the Ministry for Environment and food in issues relating to the coastal zone. Per is the project leader for the form national coastal assessment in Denmark. Per advises the municipalities and landowners in coastal zone management projects, and is used as expert in several projects addressing coastal protection, climate change adaptation and coastal zone management.
  Per is censor at Technical University, Denmark and University of Copenhagen. Per is a member of the North Sea Coastal Managers Group, which discuss strategic approaches to protect the North Sea Coasts against erosion and flooding. He is a member of the board in Danish Society for hydraulic engineering.
  **Topic: "Challenges in the coastal area in Denmark in today and future climate"**

- **Jochen Hinkel**
  Dr. Jochen Hinkel is senior researcher at the Global Climate Forum (GCF) in Berlin, a lecturer at the Division of Resource Economics at Humboldt University in Berlin and a member of the Berlin Workshop in Institutional Analysis of Social-Ecological Systems (WINS). He has also been a Lead Author on the coastal chapter of the Working Group II contribution to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC). He obtained his PhD in environmental system analysis from Wageningen University with a thesis on the integration of knowledge from natural and social sciences for assessing coastal vulnerability. At GCF Hinkel leads the research process on Adaptation and Social Learning. His current research focuses on the governance of human-environment interactions in the context of climate change impacts, vulnerability and adaptation, with a particular focus on coastal systems. Dr. Hinkel leads the development of the DIVA model, an integrated model for assessing coastal impacts and adaptation, which is jointly developed by a number of leading European coastal research institutions. Prior to his academic engagement Dr. Hinkel has worked as a development practitioner, software developer and information technology consultant. For more information see: [http://www.globalclimateforum.org/index.php?id=dr-jochen-hinkel](http://www.globalclimateforum.org/index.php?id=dr-jochen-hinkel)
  **Topic: "Coastal risk management and governance in a changing climate"**

- **Gregory Beaugrand**, is a senior scientist at the Centre National de la Recherche Scientifique (CNRS), currently based in Wimereux, France. He is the leader of the team “Biodiversity and Climate” at the Laboratory of Oceanography and Geosciences (LOG). He works in collaboration with the Sir Alister Hardy Foundation for Ocean Science (SAHFOS). His research is about the impact of Global Change on the biodiversity, structure and functioning of marine ecosystems. He is the author of "Marine biodiversity, climatic variability and global change" (2015, Routledge, London).
  **Topic: "Marine biodiversity and climate change"**
PROPOSED SCIENTIFIC SESSIONS

They are provisionally organized in three main thematic groups, but the definitive number and content of sessions will depend upon the number of submitted abstracts.

- Knowledge on Coastal environment: state of the art, new tools and approaches in the context of climate change

Coastal geomorphology, sedimentology and oceanology to address the climate change (Shoreline mobility and sea-level rise; sediment resource; storm frequency and effects; coastal resilience; coastal dunes; cliffs evolution...)
New tools and methods for coastal survey (GIS, video-cameras, multibeam, remote sensing, LiDAR, simulations and modeling)
Nearshore and offshore sedimentology, submarine geomorphology and currents in the coastal system
Land-sea interactions and water quality
Robust assessment of climate change impacts at regional and local scales, case studies
Methods to deal with uncertainties
Biodiversity, priority habitats and species. Inventories, conservation, protection, adaptation to climate change...
Coastal lowlands, wetlands, mangroves, estuarine environments, beach-dune systems..
Ecosystem services mapping and assessment

- Governance: coastal environment protection, integrated coastal zone management (ICZM) and adaptation to climate change

ICZM in different coastal environments (beach-dune systems, cliffs, mudflats and mangroves, estuaries and deltas...)
Land-Sea Interactions (ICM) to support Maritime Spatial Planning Adaptation of Coastal and Marine Policies, Legislations and Planning for climate change
ICZM European and national strategies
Clean seas: protection of the marine and coastal environment
Implementation of European Directives to achieve good status: Marine Strategy Framework Directive (Good Environmental Status) and Water Framework Directive (Good Ecological Status)
Addressing the evaluation of pressures and impacts (e.g. marine litter, underwater noise, eutrophication...)
Innovative measures and initiatives to address the status (e.g. joint monitoring programmes, plans of measures, development of assessment tools, etc.)
Management of natural hazards & lessons from natural disasters
“Strategic retreat” in coastal zone
Information and awareness of coast resilience

- Sustainable development and technical approaches in the coastal zone and adaptation to climate change ("Blue Growth")

Sustainable development and coastal hazards in overseas island face to climate change (especially in the "RUP" - Ultra Peripheral regions)
Sustainable and Green tourism
Ports and marinas development
Coastal protection infrastructures and engineering. Working with nature and ecological engineering.
Recovery of ecosystems after restoration
Beach nourishment.
Green energies in nearshore and coastal environment
Fisheries and aquaculture
Economic and sociologic aspects; control of urbanization in coastal zone
Capacity building (the activities by which individuals, groups and organizations improve their capacity to achieve sustainability).
**PROPOSED WORKSHOPS**

- *Beach-dune systems resilience, biodiversity and management in relationship with climate change*
  Coordinators: **Marie-Hélène Ruz** (Professor at the University of Littoral-Opal Coast) and **Luc Geelen** (WaterNet, the Netherlands).

- *Coastal hazards and governance. Problems of responsibility and insurance (the purpose is to address the role of regulations, insurance and re-insurance in the strategies of integrated coastal management on European and national scales).* Coordinator: **Fanny Puppinck** (EUCC-France)
  With the participation of:
  - Guy-Antoine de La Rochebeaucel: General Manager of Lloyd’s France SAS
  - Laurent Montador: Deputy General Manager of the French Central Reinsurance Fund
  - Johan Vande Lanotte: Senator, Professor emeritus at the University of Ghent, former Belgian Vice Premier Federal Minister of Economy, Consumers and the North Sea, former President of Coastal & Marine/EUCC.

- **Integrated coastal zone management. New tools and approaches**
  Coordinator: **Gérald Schernewski**, president of the Coastal & Marine EUCC.

- **Coastal tourism and sustainability**
  Coordinator: **Albert Salman**, Director Sustainable Tourism, Green Destinations - EUCC

- **Special workshop on Aquitaine-coast research**
  Coordinators: **Iker Castege**, director of the sea-center of Biarritz (ERMMA programme), **Stéphane Abadie**, Professor at the University UPPA (Pau – Pays de l’Adour), **Cyril Mallet** (BRGM and the Observatory of the Aquitaine Coast)

- **EUCC-Atlantic Center**
  Coastal smart cities and climate change: focus on the Atlantic coast
  Coordinator: **Christine Clus-Auby**, President of EUCC Atlantic Center

- **Preparing to Adapt with Young Professionals**
  Coordinators: **Robbert Misdorp**, YPCC Programme Coordinator, and **Maria Ferreira**, Director International Programme - EUCC.

**FIELD TRIPS**

- **Visit of the Sea-Museum of Biarritz** during the conference (included in the conference fee)

- Post-conference one day field trip starting from Biarritz and ending in Biarritz: **the coast of the Basque country, from the Adour estuary to San Sebastián** (28th October) **Fee: € 85**

- Optional additional one day field trip: **the Aquitaine coast dune fields, the Pilat dune (the highest European dune) and Arcachon Bay.** Starting from Biarritz, arrival in Bordeaux (29th October) **Fee: € 95**
SIDE EVENTS

- Conference gala dinner in the Bellevue Center (Thursday 27th) with local and regional specialties (fee: € 35)
- Several trips will be proposed in and around Biarritz with discovery of the Basque culture and gastronomy (a visit to the Spanish gastronomic town of Bilbao could be arranged)

EXHIBITION

All the professional concerned by the changing coast (engineers, consultants, publishers, researchers, environmental business...) will be able to rent a stand in the venue building of the Conference.

For any information contact euccfrance@centredelamer.fr

ORGANIZERS

- EUCC-France
- The "Centre de la Mer" of Biarritz
- The University of Pau & Pays de l'Adour
- The Coastal & Marine Union (EUCC)

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- LITTORAL 2016 is funded by the EUROPEAN UNION with the ERDF (European regional development fund)
- REGION AQUITAINE-LIMOUSIN-POITOU-CHARENTES
- MEDDE (Ministry of Ecology and sustainable development)
- DEPARTMENT OF PYRÉNÉES-ATLANTIQUES
- CITY OF BIARRITZ
- Agglomération côte basque Adour (ACBA)

PARTNERSHIP

EUCC-France Réseau Européen des Littoraux contact: euccfrance@centredelamer.fr
• REGION Aquitaine-Limousin-Poitou-Charentes
• MEDDE (French Ministry of Ecology and sustainable development)
• DEPARTMENT of Pyrénées-Atlantiques
• City of Biarritz
• Agglomération Côte Basque Adour
• Agglomération Sud Pays Basque
• French institutions members of EUCC-France
  
  ONF (Office National des Forêts)
  BRGM (French Geological Survey)
  Conservatoire du littoral
  ANEL (French national association of elected representatives of coastal cities)
  EID-Méditerranée
  Rivages de France
  Conservatoire Botanique National de Bailleul

• EUCC- Mediterranean Center
• EUCC- Atlantic Center
• GIP Littoral Aquitain
• **Scientific Partners**

University of Pau-Pays de l’Adour (Federation MIRA)
Centre de la Mer of Biarritz
Laboratory of Oceanology and Geosciences UMR 8187 LOG CNRS/Lille /ULCO
UMR LIENSs 7266- University of La Rochelle/CNRS
University of West Brittany - LETG Brest- Géomére- UMR 6554 CNRS
The Observatory of the Aquitaine Coast (OCA)
University of Bordeaux - CNRS EPOC UMR 5805 and Lab. of Applied Physical Geography
University of Caen Normandy
CEREMA
Groupement d’Intérêt Scientifique (GIS) Littoral Basque
Réseau de Recherches Littoral Aquitain (RRLA)
AZTI-Tecnalia