

LECTURERS



Prof. Andrés Osorio
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Andrés Osorio is Professor at the National University of Colombia with experience in Coastal Integrated Zone Management (CIZM), Marine Renewable Energy (MRE) and numerical modeling. He has been involved in several international projects like: The European Project CoastView and the Coastal Modelling System. It is remarkable his participation in the Iberoamerican Networks TANGO and IBERMAR. He has written several papers, presented his research in international conferences and participated in many international consulting projects.



Prof. Angel Borja
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Angel Borja Borja is PhD in Marine Ecology (University of the Basque Country, 1984) and is Doctor in Sciences (honoris causa) by the University of Hull (UK). He is Principal Investigator at AZTI, a private non-profit research foundation in Spain, where he has been also Head of the Department of Oceanography and Head of the Marine Environment Area. His main work is making marine ecology research useful for policy-makers and managers, studying the effects of human activities on marine ecosystems, monitoring of marine waters and recovery after impact, and developing methodologies to assess the marine status under European directives (i.e. Water Framework Directive; Marine Strategy Framework Directive), being some of these methods used worldwide. He is member of the Scientific Committee of the European Environment Agency (since 2013). He is author of more than 190 peer-reviewed papers (Hindex: 45), Specialty Chief Editor of Frontiers in Marine Sciences, Associate Editor of Continental Shelf Research and Journal of Sea Research, and member of the Editorial Board of Ecological Indicators and Marine Pollution Bulletin. Referee in more than 80 international journals and project evaluation agencies, is member of different scientific associations (ASLO, CERF, ECSA), serving as chair in numerous international conferences. He has participated in more than 100 European and international projects, being until 2016 the coordinator of the EU 7th FP project DEVOTES (DEVELOPMENT Of innovative Tools for understanding marine biodiversity and assessing good Environmental Status).



Prof. Brigitta van Tussenbroek
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Brigitta van Tussenbroek is a marine ecologist who studied her Masters at the University of Utrecht. She obtained her PhD at the University of Liverpool, studying giant kelp in the Falkland Islands. Since 1990, she is working at the Reef Systems Unit, Marine Science Institute of the National Autonomous University of Mexico, specializing in the ecology and dynamics of seagrasses in tropical systems; amongst others to increase our understanding of the causes and consequences of the degradation of seagrass meadows in these systems.



Prof. Eleonora Carol
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Carol Eleonora holds a Ph.D. in Natural Sciences (specialized in Geology and Geochemistry). She is a Researcher at the National Council of Scientific and Technical Research (CONICET, Argentina) and is a professor of Geochemistry at the Universidad Nacional de La Plata (Argentina). She has about 140 scientific works and has formed numerous scholarship holders and doctoral theses. Research topics: hydrology of coastal wetlands, geochemistry of groundwater, management of water resources in coastal areas.



Prof. Edgar Mendoza Baldwin
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Edgar Mendoza is a Civil Engineer with MSc and PhD from the National University of Mexico. He has been head of the Coasts and Ports Laboratory for more than 10 years where he has managed several experiments on coastal engineering including topics such as beach profile evolution, breakwater stability, wave-seabed-structures interaction and WEC development and optimization. His main research interests are coastal structures, coastal morphology, ocean energy and recently coastal ecological engineering.



Prof. Hocine Oumeraci
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Hocine Oumeraci is a full Professor for Hydromechanics and Coastal Engineering at Leichtweiß-Institute, member of the board of directors of Leichtweiß-Institute for Hydraulic Engineering and Water Resources (LWI) at the Technische Universität Braunschweig (TU-BS), member of the Board of Directors of "Forschungszentrum Küste FZK" (Coastal Research Centre), a Joint Institution of Leibniz Universität Hannover and Technische Universität Braunschweig. The main qualifications are in shore protections and breakwaters, sea dikes and revetments, non-conventional marine structures, wave loads and dynamics of foundations of marine structures, coastal structures made of geotextile sand containers, probabilistic design of harbour structures and breakwaters, flood risk analysis and management, analysis of failures of coastal structures and physical modelling, including scale effects. More than 10 years of experience in the engineering practice and more than 25 years in research and teaching (mainly Coastal Engineering). More than 200 peer-reviewed papers in journals and proceedings.



Prof. Ismael Marino-Tapia
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Ismael Mariño is an oceanographer who studied his MSc and PhD in the University of Plymouth. His postgraduate studies focused on understanding nearshore hydrodynamics, sediment transport, and coastal erosion through in situ measurements and numerical modelling. He has been working for CINVESTAV-Merida since 2005, focusing on measurements of physical processes of nearshore regions. During the last five years he has dedicated some effort in understanding the role of coral reefs systems and their degradation on wave energy dissipation and beach erosion.



Prof. Katie Arkema
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Katie Arkema is a Lead Scientist with the Natural Capital Project at Stanford University. Katie leads multiple efforts around the world to develop and use science about how nature benefits people to inform problems humans face in managing coastal and marine ecosystems. During the past six years she has worked with The Government of Belize to design the nation's first Integrated Coastal Zone Management Plan which is one of the first marine spatial plans to explicitly account for the economic value of a suite of ecosystem services. Currently Katie is working with the Office of the Prime Minister of The Bahamas to use an ecosystem services approach to inform sustainable development. Katie is particularly interested in the ability of coastal ecosystems to protect vulnerable communities from sea level rise and storms, while providing other services such as nursery habitat for fisheries and tourism opportunities. Her research is informing national development planning, climate adaptation and investments in restoration and conservation in the United States, Latin America, the Caribbean and Africa. Katie received her Ph.D. in Ecology, Evolution and Marine Biology at the University of California, Santa Barbara and her B.A. in ecology with a minor in Latin American studies from Princeton University. She is a Fulbright NEXUS scholar.



Prof. Malva Mancuso
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Malva Andrea Mancuso received her Master and PhD in Hydrogeology from the University of São Paulo. She worked at the Institute for Technological Research in Brazil and at the University of Iowa. She is author or co-author in more than 75 technical reports. From 2008 to 2012 she worked at the National Laboratory of Civil Engineering in Portugal. Currently, she is a Professor at Santa Maria Federal University. Her research topics are: watershed management; numerical modeling of constructed structures in porous media; Groundwater hydrodynamics in coastal aquifers; urban aquifers; hydrogeochemistry.



Prof. Maria Luisa Martinez
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Marisa Martinez received her PhD from the Faculty of Sciences at the National Autonomous University of Mexico. She has a professional experience of over 25 years. Currently she is a senior researcher at the Instituto de Ecología, A.C., in Xalapa, Veracruz. Her research topics are coastal dune ecology, and dynamics, as well as ecosystem services provided by natural ecosystems. She has written 70 scientific articles and seven books.



Prof. Milton Asmus
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Milton L. Asmus holds a PhD in Marine Sciences - University of South Carolina (USA) (1990). He is, currently, Professor at the Federal University of Rio Grande – FURG (Brazil) and the Brazilian co-lead of the IBERMAR Network – Iberoamerican Network for Integrated Coastal Management. Asmus is member (steering committee) of The Global Forum on Oceans, Coasts, and Islands; Collaborator Professor at the Federal University of Santa Catarina (Brazil) and at the Universidad de la Republica (Uruguay); and chairman of the board of Fórum do Mar (Brazil). He has mainly acting on the following topics: integrated coastal management, ecosystem-based management, systems ecology, estuarine ecology and port environmental management.



Prof. Patricia Moreno-Casasola
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Patricia Moreno-Casasola received her PhD from the Uppsala University, Sweden. She is a senior researcher at the Instituto de Ecología, A.C., in Xalapa, Veracruz. She specializes in the ecology and functioning of coastal ecosystems with special emphasis on beaches, dunes and freshwater wetlands, and strategies for management and conservation. She has written over 85 scientific articles and has contributed on 104 books.



Prof. Pedro Pereira
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Pedro Pereira is an oceanographer with experience in beach morphodynamics and coastal processes. He obtained his MSc and PhD from the Federal University of Rio Grande. His research lines focus on processes that occur at the beach such as sandbar behavior, coastal erosion, wave and bottom interaction, rip current, beach sedimentology and the use of advanced technologies for coastal studies. Since 2010, he became a researcher at the Federal University of Pernambuco. During the last five years he has been working on the dynamics of rip currents; coastal erosion along Pernambuco coastline and beach tridimensionality.



Prof. Rodolfo Silva-Casarin

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Rodolfo Silva Casarín, with a professional experience of over 25 years, has the titles of PhD in Civil Engineering, Master of Ocean Engineering, Master of Business Administration and Civil Engineering. Currently, he is a Senior Researcher in the Engineering Institute at UNAM. He has more than 400 scientific refereed papers as author or co-author and more than 100 engineering technical reports. His main research topics include: Integral management of coastal zones; marine energy; risk and reliability in maritime engineering; coastal morphodynamics; hydrodynamics



Prof. Sheila J.J. Heymans

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Sheila JJ Heymans has been involved with environmental impacts of fisheries and ecosystem change for 20 years and has published > 50 peer-reviewed publications on a variety of topics ranging from the ecosystem effects of fishing, indicators of ecosystem status, the reasons for species decline, historical reconstructions of ecosystems, to the impact of fishing subsidies on the North Sea ecosystem. She has a background in ecosystem modelling approaches such as Ecopath with Ecosim and Ecological Network Analysis and has used and taught both techniques extensively since 1993. Currently her main focus is the social, economic and ecological impacts of fishing in the world's oceans and the resilience of these ecosystems to fishing and environmental changes. Her work experience includes historic reconstructions of ecosystems such as the Bird's Head archipelago of Papua, Indonesia and the fisheries of Sierra Leone for the Sea Around Us Project (University of British Columbia's Fisheries Centre), the 500 years of Newfoundland fisheries and the ecosystem of northern British Columbia (Coasts under Stress). While at the Fisheries Centre she also studied the decline of Steller sea lions in Alaska and prior to her tenure there she worked on the ecosystem interactions of the gramminoid marshes of the Everglades at the Chesapeake Biological Laboratory of the University of Maryland. She sits on the executive board of the Ecopath Consortium Advisory Board, have been part of various ICES Working Groups as well as the International Platform for Biodiversity and Ecosystem Services (IPBES) where she is a lead author on the chapter: "Policy support tools and methodologies for scenario analysis and modelling of biodiversity and ecosystem services". She was part of the "Understanding ecosystems for sustainable resource exploitation in the deep ocean" scoping group for NERC and on the scientific advisory groups for the ESPA project SPACES and the EU F7 project MAREFRAME. She teaches a CPD course in Ecopath with Ecosim each year in February/March. Her teaching commitments include running a MSc module on Advanced Modelling and she was the programme leader for the MSc in Ecosystem Based Marine Management at SAMS from 2013-2016. Finally, she is the Head of the Science Department and Leader of the UHI Cluster on Marine, Environmental Science and Engineering. She was the Head of the Ecology Department (2013-2016), Theme Leader for the "People and the Sea" research theme until (2012-2013) and part of the 2013 REF preparation team for SAMS.



Prof. Tjeerd Bouma

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Tjeerd Bouma studied biology at the University of Utrecht, he did a PhD at the Wageningen Agricultural University. After his PhD, he worked as a post-doctoral researcher at the Pennsylvania State University. In 1997 he got appointed at the Center of Estuarine and Marine Ecology in Yerseke. Within the department of Littoral Vegetations he studied how different root growth strategies enable salt marsh plants and seagrasses cope with inundation stress and anoxic sediments. With the foundation of the department of Spatial Ecology in 2002, his research focus was changed towards the role of bio-physical interactions (i.e., plant-hydrodynamic interactions) and ecosystem engineering (landscape building by organisms) in coastal landscapes.