

6 - 7 DE JUNHO, 2022

Hotel Cristal, Vieira de Leiria

ENCONTRO DE OCEANOGRAFIA

APOCEAN

PROGRAMA

PATROCÍNIOS:





AT A GLANCE...

6 de Junho

9:30 - 11h	Receção e registo
11 - 11:10h	Sessão de abertura
11:10 - 11:50h	PALESTRA CONVIDADA ★
11:50 - 13:02h	Apresentações orais
Até 14:30h	ALMOÇO 🍴
14:30 - 14:45h	PALESTRA HIGHLIGHT 📢
14:45 - 15:57h	Apresentações orais
15:57 - 16:27h	PITCH* 📅
16:27 - 16:47h	COFFEE BREAK ☕
Até 17:32h	SESSÃO DE POSTERS* 📅
17:32 - 18:56h	Apresentações orais
19 - 20h	Free time 🛶
20h	JANTAR SOCIAL 🍴

7 de Junho

9 - 9:48h	Apresentações orais
09:48 - 10:28h	PALESTRA CONVIDADA ★
10:28 - 10:40h	PRÉMIO APOCEAN 🏆
10:40 - 11h	COFFEE BREAK ☕ + FOTO DE GRUPO 📷
11 - 13h	ASSEMBLEIA APOCEAN 👥
13 - 14:30	ALMOÇO 🍴
14:30 - 14:45h	PALESTRA HIGHLIGHT 📢
14:45 - 15:09h	Apresentações orais
15:09 - 16:20h	PITCH + SESSÃO DE POSTERS 📅
16:15 - 16:30h	COFFEE BREAK ☕
16:30 - 16:40h	INFORMAÇÃO HIGHLIGHT 📢
16:40 - 17:52h	Apresentações orais
17:52 - 18h	Sessão de encerramento





CONVIDADOS



André Oliveira

Chief Technology Officer,
CoLAB +Atlantic, CEiiA

André Oliveira has a degree in Aerospace Engineering from IST in Portugal, a postgraduate certificate on Space Systems analysis and design from the International Space University (ISU) and a postgraduate certificate on business leadership from IMD in Lausanne. After 2,5 years at ESA-ESTEC working on smart structures and multi-body dynamics, André spent 14 years at the TEKEVER group where he was responsible for all R&D activities in the domains of Aerospace, Defence and Security with a focus on small satellites, drones, remote sensing and soldier systems. During this period, the team under his direct management won and successfully completed over 60 R&D contracts (with 19.5M€ of direct funding) and André directly managed and coordinated 14 international projects. He's been subject matter expert at EUROCAE, RTCA and NATO since 2011 on multi-domain unmanned systems and soldier energy systems. André also supports the EC as expert evaluator for the Space theme and EDIDP and is an active member of the Commission's expert group on Policies & Programmes relevant to EU Space, Defence and Aeronautics Industry. Since 2019, André splits his time between the +ATLANTIC Collaborative Laboratory, where he is currently Chief Technology Officer with a specific emphasis on Space technologies, and CEiiA where he is business development manager for Space.



Jerry F. McManus

Professor, Columbia University,
Lamont-Doherty Earth Observatory,
Department of Earth & Environmental Sciences

Jerry McManus grew up in New York City and received a B.A, M.A., M. Phil., and Ph.D. (1997) in Earth Science from Columbia University. In the almost 25 years since he received his Ph.D., Jerry has led a global effort to understand the impact of past climate change on the world's oceans. Of exceptional quality and quantity, Jerry's research has had an enormous influence on the field of paleoceanography and his insights into the mechanisms of natural climate variability are of great relevance to the understanding of human-induced global warming.

His research as a paleoceanographer primarily uses deep-sea sediments and is focused on reconstructing natural variability in the Earth's climate and the large-scale ocean circulation, with a special focus on the role that the ocean plays in abrupt climate change. Jerry has spent nearly a year of his life at sea and is involved in research projects assessing climatic and oceanographic variability recorded in sediments from far-flung locales in every ocean basin, including the North Atlantic and Iberian margin. Jerry also has an impressive record of scientific collaboration and international leadership as well as mentorship, teaching, and student training. After ten years at Woods Hole Oceanographic Institution, he returned to Columbia University in 2008.



HIGHLIGHT

Renato Mendes



CoLAB +Atlantic / FEUP

Renato Mendes - PhD in Physics (Oceanography) and Masters in Meteorology & Physical Oceanography from the University of Aveiro. He is interested on coastal oceanography, using multi-platform data, such as observations, remote sensing, and numerical models. Recently, he has addressed the use of networked autonomous systems to survey coastal fronts in a coordinated and collaborative manner. He co-authored over 20 articles and holds a project management professional certification from the Project Management Institute (PMI). Since 2021, he is a researcher at CoLab +ATLANTIC with an alignment with the LSTS lab at FEUP, working as a facilitator in interdisciplinary teams and combining his background in oceanography with ocean robotics, exploring innovative methodologies for ocean observation. He received the FLAD Science Award Atlantic 2021.

Andreia Rebotim

Andreia Rebotim graduated in Marine Biology and Biotechnology at the Polytechnic Institute of Leiria (Portugal) in 2006, completed a Master Degree in Ocean Sciences at Oporto University (Portugal) in 2009 and finished her PhD in Natural Sciences at the Bremen University (Germany) in 2018. Her research interests focus on the ecology and geochemistry of living planktonic foraminifera, organisms commonly used as indicators of past ocean conditions. Given her belief in the need of outreach activities in particular to the younger generations, she has been collaborating in the international project 'Once Upon a Time', a project meant to educate about earth, climate and ocean sciences.



IPMA / CCMAR

Fátima Abrantes



IPMA / CCMAR

PhD in Geological Oceanography - Paleoceanography from the Graduate School of Oceanography - University of Rhode-Island. Works on the oceanographic and climatic conditions controlling ocean productivity, mainly in coastal upwelling areas. Authored 110 ISI scientific papers and co-edited the books 'Reconstructing Ocean History: A Window into the Future' and 'The Climate of the Mediterranean Region'. Initiated paleoceanography/paleoclimatology research in Portugal, launching new research areas. PI in 6 national projects and responsible for the Portuguese participation in 8 European projects. Director for the Marine Geology Department (1999 - 2011), member of the scientific and/or executive committees of International programmes and national representative in the ESF-LESC core & standing committees.

6 de Junho

- 9:30 - 11h** Receção e registo
- 11 - 11:10h** Sessão de abertura
- 11:10 - 11:50h** **PALESTRA CONVIDADA**  **André Oliveira, CoLAB +Atlantic**
 +ATLANTIC: uma abordagem multidisciplinar ao desenvolvimento de Digital Twins como ferramentas de ciência e suporte à decisão
- 11:50 - 12:02h** **Ana Machado, S. Plecha, Á. Peliz, S. Garrido**
 Modeling sardine larvae dispersion and survival on the Iberian Current System
- 12:02 - 12:14h** **Sandra Plecha, A.M. Teles-Machado, Á. Peliz**
 Temperature and Salt extremes in the Iberian Basin
- 12:14 - 12:26h** **Teresa Rosa, Á. Peliz, A. M. Piecho-Santos, A. Teles-Machado, S. Plecha**
 Seasonal ocean variability within the NW Portuguese shelf
- 12:26 - 12:38h** **Erwan Garel, L. de Oliveira Júnior, D. Abecasis**
 The association between Meagre ("Corvina") migration direction and subtidal currents along the south Portugal coast
- 12:38 - 12:50h** **Jaime Y. Suarez-Ibarra, T.M. Freire, F. Scheiner, K.B. Costa, K. Holcová, F.A.L. Toledo, M.F.G. Weinkauff, M.A.G. Pivel**
 Late Quaternary south Brazilian continental margin: a possible analog for future anthropogenic climate projections?
- 12:50 - 13:02h** **Tanya Silveira, M. Carapuço, M. Miranda**
 We are Atlantic: IPMA's platform for the ocean
- Até 14:30h** ALMOÇO 
- 14:30 - 14:45h** **PALESTRA HIGHLIGHT**  **Renato Mendes, CoLAB +Atlantic**
 JUNO - Robotic exploration of Atlantic waters
- 14:45 - 14:57h** **Luisa Lamas, I. Martins, J. Vitorino, C. Barrera**
 Ocean dynamics characterization in the East Central North Atlantic from a sustained multiplatform observing-system approach
- 14:57 - 15:09h** **Mafalda Carapuço, T. Silveira, Z. Stroynowski, C. Sousa, M. Miranda**
 Fostering ocean observation in Portugal: the EMSO-PT Initiative
- 15:09 - 15:21h** **Rita F.T. Pires, Á. Peliz, A. dos Santos**
 A biophysical exercise on the transport of decapod larvae through the Strait of Gibraltar
- 15:21 - 15:33h** **Susana M. Silva, Á. Peliz**
 Vertical structure of Mesoscale Turbulence in the Azores Current System
- 15:33 - 15:45h** **Pedro Nunes, P.B. Oliveira, R. Nolasco, J. Dubert**
 Evidências da separação do afloramento na costa NW de Portugal
- 15:45 - 15:57h** **Amélie Simon, S.M. Plecha, A. Russo, A. Teles-Machado, M.G. Donat, P.-A. Auger, R.M. Trigo**
 Hot and Cold Marine Extreme Events in the Mediterranean over the last four decades
- 15:57 - 16:27h** **PITCH (2 min)*** 
- Dulce Oliveira et al.** Indian monsoon and vegetation dynamics: lessons from two contrasting glacial-interglacial cycles of the Middle Pleistocene
 - Dulce Oliveira et al.** Unraveling hydroclimate variations during MIS 11 in the Indian core monsoon zone
 - Giulia Molina et al.** Morphometry of Calcidiscus leptoporus yield insights into palaeoecological preferences in the southwestern Atlantic during the last 135 kyr

4. **Mafalda Freitas et al.** Natural Mineral Carbonation: Insights from Serpentinite Mud Volcanism
5. **Lelia Matos et al.** Testing cold-water coral chromium isotopes as a new paleoredox proxy
6. **Adélia Camarinha et al.** Estudo da variação espacial da turbidez no Estuário do Tejo com imagens Sentinel-2
7. **João Alves et al.** Avaliação do recurso de energia da maré no Estuário do Tejo
8. **Ana F. Ribeiro et al.** Circulação e processos de transporte durante um evento extremo de descarga fluvial no Estuário do Tejo
9. **João M. Dias et al.** Modelação hidrodinâmica operacional no contexto do combate à poluição marinha
10. **Ana Picado et al.** Impacto da poluição emitida pelo transporte marítimo: o caso de estudo da Ria de Aveiro
11. **Tiago Martinho et al.** Variabilidade oceanográfica na costa portuguesa: implicações na abundância em algumas espécies de pescado
12. **Margarida S. Lopes et al.** Relation between Arte Xávega and Environmental Factors: Espinho's study case
13. **Pedro Martins et al.** Estudo sobre a cobertura espacial e temporal da rede Argo no Atlântico Nordeste
14. **Jorge M. Magalhães et al.** Interactions and variability in Internal Waves off Cabo Mondego (Portugal)
15. **Adriana M. Santos-Ferreira et al.** The generation of Internal Solitary Waves by buoyant gravity currents released from Tropical Instability Waves in the Pacific Ocean: satellite observations and modelling

16:27 - 16:47h COFFEE BREAK 

Até 17:32h **SESSÃO DE POSTERS *** 

17:32 - 17:44h **Anabela Oliveira, J. Rogeiro, M. Rodrigues, A.B. Fortunato, M. Rocha, Jesus, A. Azevedo**
 OPENCoastS+: an EOSC-powered service for on-demand prediction of coastal water quality

17:44 - 17:56h **Beatriz Biguino, C. Antunes, H. Pereira, A. Picado, J.M. Dias, C. Borges, C. Palma, I. Haigh, A.C. Brito**
 Trend assessment of water temperature in the Sado Estuary (Portugal) and its adjacent coastal ocean

17:56 - 18:08h **Marlene Pinheiro, A. Oliveira, S. Barros, N. Alves, J. Raimundo, M. Caetano, J. Coimbra, T. Neuparth, M.M. Santos**
 Suspended sediments affect the model species *Mytilus galloprovincialis* at the molecular, biochemical, and functional level under hyperbaric conditions

18:08 - 18:20h **Alexandra Cravo, A. Rosa, J. Jacob, C. Correia**
 Dissolved oxygen dynamics in Ria Formosa Lagoon (South Portugal) - A real time monitoring station observatory

18:20 - 18:32h **A. Freitas, Mariana Bernardino, C. Guedes Soares**
 Influência da Oscilação do Ártico no clima de ondas no Atlântico Norte até ao fim do séc. XXI

18:32 - 18:44h **Susana Barbosa, A. Almeida, N. Dias, G. Silva, E. Silva**
 Observations of the marine boundary layer in the North Atlantic from measurements onboard the WRP Sagres sail ship

18:44 - 18:56h **Francisco Silveira, C.L. Lopes, J.P. Pinheiro, H. Pereira, J.M. Dias**
 Influence of Rising Sea Levels on a Mesotidal Lagoon: Ecological and Socioeconomic Impacts under Present and Future Scenarios

19 - 20h *Free time* 

20h JANTAR SOCIAL 

7 de Junho

- 9 - 9:12h** **Alexandra Rosa**, C. Cardoso, R. Vieira, R. Faria, A.R. Oliveira, G. Navarro, R.M.A. Caldeira
 Impact of flash flood events on the coastal waters around Madeira Island: the 'Land Mass Effect'
- 9:12 - 9:24h** **Cátia Correia**, A. Sierra, T. Ortega, J. Forja, J. Jacob, A. Cravo
 Ria Formosa: Fonte ou sumidouro de gases de estufa?
- 9:24 - 9:36h** **Álvaro Peliz**, S. Plecha, R. Sanchez
 Transient upper slope flows on the Gulf of Cadiz: a case study of November 2012
- 9:36 - 9:48h** **Luciano de Oliveira Júnior**, P. Relvas, E. Garel
 The surface water circulation at the northern margin of the Gulf of Cadiz
- 9:48 - 10:28h** **PALESTRA CONVIDADA**  **Jerry F. McManus, Columbia University**
 Reconstructing past changes in Earth's climate and deep-ocean circulation from deep-sea sediments
- 10:28 - 10:40h** **PRÉMIO APOCEAN** 
- 10:40 - 11h** **COFFEE BREAK**  + **FOTO DE GRUPO** 
- 11 - 13h** **ASSEMBLEIA APOCEAN** 
- 13 - 14:30h** **ALMOÇO** 
- 14:30 - 14:45h** **PALESTRA HIGHLIGHT**  **Andreia Rebotim, IPMA/CCMAR**
 "Once Upon a Time... a scientific fairy tale": Using fictional stories to educate about earth, climate and ocean sciences
- 14:45 - 14:57h** **Ana Lopes**, M. Alonso-García, E. Salgueiro, C.N. Rodriguez-Díaz, L. Alonso-Azibeiro, H. Kuhnert, T. Rodrigues, M. Padilha, W. Soares, A.H.L. Voelker, F. Abrantes
 Early Pleistocene bottom water conditions at the SW Iberian margin
- 14:57 - 15:09h** **Clara Ribeiro**, A. Ribeiro, J.M. Dias
 Avaliação do Potencial da Energia das Ondas na Costa Noroeste da Península Ibérica
- 15:09 - 16:20h** **PITCH (2 min) + SESSÃO DE POSTERS** 
16. **Aline Mega et al.** Sea surface temperature and productivity variability reconstruction at the Portuguese margin during the Holocene
 17. **Marta Salvado et al.** Variações Oceanográficas ao largo da Margem Ocidental Portuguesa durante o Último Milénio
 18. **Andreia Rebotim et al.** ExploRarE: Exploring the potential of REEs as productivity indicators in planktonic foraminifera along western Iberian Margin
 19. **Emília Salgueiro et al.** Rare earth elements/Ca ratios of planktonic foraminifera, a potential proxy for water column nutrients? The NW Iberia case study
 20. **Teresa Rodrigues et al.** "Shackleton site" unveils persistent millennial climate variability through the Pleistocene in the Iberian Margin
 21. **Alexandra Cravo et al.** Importância das condições hidrodinâmicas no estado trófico da Ria Formosa
 22. **Francisco Pereira et al.** Impact of Morphologic Changes on the Ria de Aveiro Lagoon Hydrodynamic and Salinity Patterns: A Modelling Study
 23. **Bruna Faria et al.** Sea outfall turbid plume monitoring offshore Aveiro – a preliminary high-spatial-resolution satellite imagery study

24. **Afonso Sá et al.** Ripples: Increasing human supervision over operational assets for a persistent and efficient ocean observation
25. **Francisco Silva et al.** Distribution of Internal Waves in the Northeast Atlantic: An Ocean Color Remote Sensing Analysis
26. **Spallou Ferreira et al.** Upwelling tendencies along West and South Portuguese Coasts
27. **Lívia Cordeiro et al.** Impact of climate warming in the coastal upwelling system and primary production off Portugal: a study linking classical and emergent proxies – ICW3P
28. **Humberto Pereira et al.** 3D modelling of salt intrusion and estuarine plumes under climate change scenarios in two estuaries (NW of Portugal)
29. **Magda C. Sousa et al.** The fate of microplastics released by wastewater treatment plants in Ria de Vigo (NW Iberian Peninsula)

16:15 - 16:30h COFFEE BREAK 

16:30 - 16:40h INFORMAÇÃO HIGHLIGHT 

Fátima Abrantes, IPMA/CCMAR
Portugal no SCOR

16:40 - 16:52h **Vitor Magalhães, P. Terrinha, C. Ribeiro, M. Mil-Homens, M. Caetano, S. Silva, A. Rodrigues, E. Salgueiro, F. Abrantes, TAGUSGAS Cruise scientific party**
Mineralogical, geochemical and magnetic signatures of shallow gas in the Tagus pro-delta, preliminary results

16:52 - 17:04h **A. Miguel Piecho-Santos**
O Programa Argo: uma perspectiva geral

17:04 - 17:16h **Teresa Carmo-Costa, R. Bilbao, P. Ortega, A. Teles-Machado, E. Dutra**
Trends, variability and predictive skill of the ocean heat content in North Atlantic: an analysis with the EC-Earth3 model

17:16 - 17:28h **Daniela Silva, R. Menezes, A. Moreno, A. Teles-Machado, S. Garrido**
Spatio-temporal variability of the distribution and abundance of sardine off the Portuguese continental coast and relationship with environmental drivers

17:28 - 17:40h **Carlos Sousa, P. Relvas**
Oceanografia operacional – instalação e recuperação de uma infraestrutura de observação oceanográfica da coluna de água

17:40 - 17:52h **Paulo B. Oliveira, T. Ramos, P. Amorim, M.M. Angélico, P. Nunes, R. Oliveira, M.T. Lamas**
TUGA ao serviço da Oceanografia

17:52 - 18h Sessão de encerramento

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ORGANIZAÇÃO:

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