February 2024 SCOR Newsletter # 53

Ocean Sciences Meeting 2024 Edition (& More!)

Meet SCOR at booth #607 at the Ocean Science Meeting (OSM) in New Orleans, USA (18-23 February 2024)! Executive Director Emily Twigg and representatives from SCOR working groups and projects will be present. Interested in a specific activity? View the booth schedule here.

Scroll down for more news about the call for new SCOR working groups, the selected 2024 SCOR Visiting Scholars, new publications, and more.

Upcoming Annual Meetings:
- 2024: 16-18 October, Qingdao, China
- 2025: Santa Marta, Colombia
- 2026 LOCATION NOW ANNOUNCED: Helsinki, Finland

Working Groups and Projects at OSM 2024

WG 145 MarChemSpec
- Posters on marine carbon dioxide removal (mCDR) (CM24A-1140) and trace metal complexation (OB34C-0880).
- Test drive new software at the Ocean Carbon & Biogeochemistry (OCB) booth (#512)

WG 148 IQuOD
- Oral Presentation CC41A-03 Quantification of uncertainties in global ocean temperature observations: the International Quality-controlled Ocean Database (IQuOD) product

WG 157 MetaZooGene

WG 161 ReMO
- Town Hall TH33K - ReMO: Respiration in the Mesopelagic Ocean

WG 162 OASIS
- Community Workshop: This 2-day workshop (17-18 February) will bring the OASIS community together for its first face-to-face meeting to review current activities and projects, frame the main objectives of OASIS, discuss the four Grand Ideas, highlight emerging areas, and define what is needed as a community to reach these objectives. Register and learn more here.

WG 168 4D-BGC
- Visit members at the SCOR booth.

WG 169 GLUBS
- Visit members at the SCOR booth.

GEOTRACES (View complete information here)
Visit members at the SCOR booth, including for assistance registering datasets for inclusion in the next Intermediate Data Product.

Oral Session CT12A - Geochemical Tracers of Ocean Processes
Oral Session OB42A - Biogeochemical Cycling in the Caribbean Sea, the Gulf of Mexico, and Beyond
Oral Session OB41C - Speciation and Bioavailability of Trace Metals in the Marine Environment
Oral Session HE53A - Heading South: Contrasting Biogeochemical Cycling of Trace Elements and Isotopes from Tropical to Southern Ocean Waters
Oral Session OB53B - Observation-Based Data Products of Ocean Biogeochemistry and the Importance of Standardized Measurement and Uncertainty Estimation Protocols in Marine Science
Oral Session OB11C - Time Series Observations of Ocean Biogeochemistry: What We Have Learned and What We Will Learn
Poster Session OB14D - The Influence of Boundary Currents on Exchange Processes Between Continental Margins and the Open Ocean and Biogeochemical Consequences
Poster Town Hall TH13F - Margin/Basin Biogeochemical Dynamics: Priorities and Future Directions

IIoE-2 Early Career Scientist Network
Poster ED24B-0114 Report on the IT CO ocean machine learning and species distribution course and hackweek: first event of the UN Decade of the Ocean capacity development initiative “Devising Early-Career Capacity Development - Indian Ocean”

IMBeR
Poster HD44B-0249 Developing an Action Plan for the Ocean

SOLAS
Visit members at the SCOR booth.
The OCB Ocean Atmosphere Interaction Committee and SOLAS would like to invite everyone to the Courtyard Brewery, a location near the Ernest N. Morial Convention Center with food and drinks, on Wednesday, Feb. 21 starting at 6:30 PM.
The Biogeochemistry of Air-Sea Exchange Processes
  - Oral Session AI44B
  - Oral Session AI51A
Oral Presentation AI51A-06 Seasonal Variability in Concentrations of Free and Combined Amino Acids in Seawater and Associated with Nascent Primary Marine Aerosol at the BATS Station
Physical and Biogeochemical Variability and Changes in the World's Upwelling Systems: Present and Future
  - Oral Session I PI13A
  - Oral Session II PI21A
  - Poster Session PI24A
Oral Presentation OB53B-07 High-resolution neural network demonstrates strong CO2 source sink juxtaposition in the coastal zone
Community Meeting and Workshop - Benefits vs Risks of Ocean Plastic Pollution Cleanups
Ecological and Biogeochemical Impacts of Plastic Pollution in the Marine Environment
  - Poster Session CE44B
  - Oral Session CE51A
Poster HE44E-2740 Southern Ocean deep convection – a wild card in emission reduction scenarios?
Poster CE44C-0472 Marine Microplastics: Modelling Different Phase-out Scenarios and Understanding their Potential Implications for Marine Contamination
Poster OB24B-0764 Southern Ocean biogeochemistry and primary production during the Last Interglacial
Poster OB24B-0762 Southern Ocean deep convection events increase meridional temperature gradients in warm climates
Oral Presentation OB31A-09 Nitrogen Cycling in the Agulhas Current II: Agulhas Current Dynamics Drive (Sub)Mesoscale Nitrate Fluxes That Fuel New Production
Poster OB34D-0898 Nitrogen cycling in the Agulhas Current I: Local and remote signals of Indian Ocean processes
The Indian Ocean: Mean State, Natural Variability, and Climate Change
  - Online Session OP31C
  - Poster Session CC34C
Poster AI44B-2456 Photochemical Degradation Decreases the Concentration of Surfactants in the North Atlantic Seawater and the Associated Sea Surface Microlayer
Poster OB14C-0716 Measuring marine dissolved inorganic carbon (DIC) photoproduction from space
Poster OB44E-1001 Expanding the Application of Remote Sensing-based Marine Photochemical Models to Novel Biogeochemical Estimates
- Poster AI14B-2315 A Holistic Approach to Ocean Observations for Process Understanding: Bubble mediated exchange in the Labrador Sea (BELS)

SOOS (View complete information here)
- Visit members at the SCOR booth.
- Side Meeting of the Weddell Sea and Dronning Maud Land Regional Working Group. Date and place to be announced soon
- Session by SOFLUX CWG AI14A - Advances in understanding of air-sea fluxes & interaction in the Southern Ocean
- Session Polar Technology Task Team HE14B - Autonomous Sensing and Monitoring in Polar Environments
- Session by SOOS-endorsed project, International Nutrient Inter-comparison Voyage, OT34C - Breaking Barriers: Bridging the Gap in Methodologies and Data Reporting for Ocean Biogeochemistry
- Poster CC44E-1398 Southern Ocean Observing System for sustained and coordinated observations in a changing world

Call for New SCOR Working Groups

In case you missed it...

The 2024 Call for SCOR Working Groups is open until the 17 May 2024. The selection of the new SCOR working groups will take place at the 2024 SCOR Annual Meeting scheduled to take place in Qingdao, China on 16-18 October 2024.

For more information, read the full call and proposal instructions.

Congratulations 2024 SCOR Visiting Scholars!

Six SCOR Visiting Scholars were selected to provide training in ocean science in 2024:

Ramia Al Bakain (Jordan to Lebanon)
Evaluation and removal of contaminants from marine sediments and biota

Isaure de Buron (USA to Morocco)
Marine parasitology in semi-enclosed coastal systems

Jessica Glass (USA to Seychelles)
eDNA and population genetics
Recognition and Awards in the SCOR Community

2023 International Science Council Fellows

The ISC Fellowship recognizes individuals for their outstanding contributions to the promotion of science as a global public good.

- Jacqueline Uku, member of the SCOR Executive Committee 2019-2023
- John Church, Full member of WG 94 Altimeter Data and In-situ Current Observations
- Ramia Al Bakain, 2024 SCOR Visiting Scholar

The Oceanography Society (TOS) Honors 2024

TOS recognizes members who have made outstanding and sustained contributions to the field of oceanography through scientific excellence, extraordinary service and leadership, and/or strategic development of the field.

- **TOS Fellow**: Claudia Benitez-Nelson, recent Chair of the SCOR Capacity Development Committee, Full member of WG 146 Radioactivity in the Ocean, 5 decades later (RIO5)
- **TOS Fellow**: Frank Muller-Karger, IMBeR SSC member (2018-2020), Associated member WG 154 Integration of Plankton-Observing Sensor Systems to Existing Global Sampling Programs (P-OBS), Associated member WG 158 Coordinated Global Research Assessment of Seagrass System (C-GRASS)
- **TOS Fellow**: Mitsuo Uematsu, SOLAS SSC member (2001-2006)
- **2024 TOS Mentoring Award**: Charitha Bandula Pattiaratchi, founding contributor to IIOE-2

News from the Working Groups and Projects

2024 Call for Applications for the GEOTRACES ECS Committee

The GEOTRACES Early Career Scientists (ECS) committee will act as a strategic and operational body to coordinate and champion early career activities within the framework of GEOTRACES science under the supervision of the GEOTRACES Scientific Steering Committee (SSC) and the International Project Office (IPO). The GEOTRACES ECS committee will consist of 10-20 rotating members, who will each serve for a 2-year term. Read the announcement here.

IMBeR IMBIZO7 Call for Abstracts
IMBeR will hold its seventh IMBIZO (the Zulu word for 'a gathering') at the Institut Agronomique et Vétérinaire Hassan II (IAV) in Rabat, Morocco from 23-26 September 2024. Submit an abstract to one of the three workshops to be considered as a participant in IMBIZO7 by 19 February. Read about the IMBIZO7 here.

Submit your data for the GEOTRACES IDP2025

Data and intercallibration reports must be submitted by 15 May. View the IDP2025 timeline here.

Declaration on Operationalising the Surface Ocean Carbon Value Chain

IOCCP participated in the publication of the Oostende Declaration, which calls for concerted international and intergovernmental efforts to create a robust, resilient and sustainable surface ocean carbon observing system. Read more here.

Latest news from the projects at:

SCOR Research projects:
- Marine biogeochemical cycles of trace elements and their isotopes (GEOTRACES)
- Integrated Marine Biosphere Research (IMBeR)
- Surface Ocean Lower Atmosphere Studies (SOLAS)
- International Indian Ocean Expedition II (IIOE-2)
- International Quiet Ocean Experiment (IQOE)

SCOR Infrastructural projects:
- International Ocean Carbon Coordination Project (IOCCP)
- Global Harmful Algal Blooms (GlobalHAB)
- Southern Ocean Observing System (SOOS)
- Changing Ocean Biological Systems (COBS)
- Joint Committee on Seawater (JCS)

Recent Publications

**WG 167 RUSTED Special Issue**


**GEOTRACES:** Chen, X.-G., M. Gledhill, M. C. Lohan, A. Milne, and E. P. Achterberg. (2024). Surface ocean biogeochemistry and deep ocean circulation control relationships between nutrient-type trace metals (Cd, Ni, Cu, and Zn) and nutrients in the South Atlantic Ocean near the subtropical front. *Geochimica et Cosmochimica Acta.* https://doi.org/10.1016/j.gca.2024.01.001.


**COBS:** Feng, Y., Xiong, Y., Hall-Spencer, J. M., Liu, K., Beardall, J., Gao, K., Ge, J., Xu, J., & Gao, G. (2024). Shift in algal blooms from micro- to macroalgae around China with increasing eutrophication and


**Obituaries**

**Robert Fournier (Canada)** served as Secretary of SCOR from 1986 to 1992. He was professor emeritus of ocean studies at Dalhouse University at the time of his passing. According to a memorium by Dalhousie, he was also passionate about outreach and communicating science to the public. Having made an estimated 2,500 appearances on CBC radio and television since 1974, Dr. Fournier helped educate a generation of listeners and viewers on a wide range of scientific topics. The obituary by Dalhousie University can be read [here](#).
For updates on SCOR activities, see our Latest News section
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