



Royal Academy for
Overseas Sciences 



中国科学院
CHINESE ACADEMY OF SCIENCES

The Royal Academy for Overseas Sciences (RAOS) and the Chinese Academy of Sciences (CAS)
are organizing a two-day activity

MARINE DATA

AND SDGs



BRUSSELS

4 & 5 JUNE 2024

PROGRAMME

For information, please contact: contactraos@kaowarsom.be

The Royal Academy for Overseas Sciences (RAOS)
and
the Chinese Academy of Sciences (CAS)
are organizing a two-day activity
Marine Data and SDGs
on 4th and 5th June in Brussels (Belgium).

PROGRAMME OF JUNE 5TH

Venue:

Royal Library of Belgium,
Mont des Arts 28
1000 Brussels
<https://www.kbr.be/en/about-kbr/>

- 08:30 *Registration*
- 09:00 Opening by the President of the Royal Academy for Overseas Sciences (RAOS) and the Vice-President of the Chinese Academy of Sciences (CAS)

Session 1: Blue Economy

Chair: Prof. Jana ASSELMAN

- 09:15 **Ecological Aquaculture**, by Professor Patrick SORGeloos, Ghent University and member of RAOS (by video)
- 09:25 **Behavioral plasticity and physiological adaptations of sea cucumber (*apostichopus japonicus*) during reproduction**, by Professor Libin ZHANG, IOCAS
- 09:40 **The diseases of sea cucumbers in aquaculture**, Professor Igor ECKHAUT, University of Mons
- 09:55 **The blue economy: developing solutions for ocean and human health?**, by Professor Jana ASSELMAN, Ghent University, Blue Growth Research Lab
- 10:10 **Measuring, modelling, managing: towards sustainable treatment of corrosion**, by Professor Geert POTTERS, Antwerp Maritime Academy
- 10:25 Q&A
- 10:40 *Coffee & tea break*

Session 2: Coastal Ecosystems

Chair: Prof. Farid DAHDOUH-GUEBAS

- 11:10 **Ecological insights from >3 decades of remote sensing on vegetation dynamics research in mangrove forests in Asia, Africa and the Americas**, by Professor Farid DAHDOUH-GUEBAS, Université Libre de Bruxelles (ULB), Free University Brussels (VUB) and member of RAOS
- 11:25 **A social-ecological systems perspective on mangroves and coasts: a snapshot of recent research**, by Professor Jean HUGÉ, Université Libre de Bruxelles (ULB) and Free University Brussels (VUB)

- 11:40 **Sand and Sustainability in the marine environment**, by Professor Vera VAN LANCKER, Royal Belgian Institute of Natural Sciences and Ghent University
- 11:55 **Connectivity of coral reefs and mangroves in the Indian Ocean**, by Professor Marc KOCHZIUS, Free University Brussels (VUB)
- 12:10 Q&A
- 12:25 *Lunch break*

Session 3: Ocean observing systems, ocean data and information

Chair: Andreea STRACHINESCU

- 13:25 **The project EMOD-PACE**, by Mrs. Andreea STRACHINESCU, Directorate-General for Maritime Affairs and Fisheries
- 13:40 **Non-invasive sediment characterization using multiple remote systems**, by Professor Qunyan REN, IOA-CAS
- 13:55 **Earth Observation data as a governance tool for oceans**, by Engr. Gilles OLLIER
- 14:10 **Marine geological and geophysical research at the Renard Centre of Marine Geology, Ghent University**, by Professor Marc DE BATIST, Ghent University
- 14:25 **Physics-based numerical modelling to generate time and space covering data on the behavior of the coastal and marine environment under influence of various stressors**, by Professor Erik TOORMAN, KULeuven and member of RAOS
- 14:40 **Application of AI technology for oceanic phenomena studies**, by Professor Xiaofeng LI, IOCAS
- 14:55 Q&A

Session 4: Deep ocean and high seas

Chair: Prof. Chaolun LI

- 15:10 **Exploring the depths: Symbiosis-driven biodiversity in cold seep ecosystems**, by Professor Minxiao WANG, IOCAS
- 15:25 **Electronic sensor tags-based marine animal and environment observation technology**, by Professor Yang YANG & Dr. Haoxiang MA, IDSSE
- 15:40 **General reflections on the interaction between the BBNJ Agreement and the international deep sea mining regime**, by Professor Klaas WILLAERT, Ghent University
- 15:55 Q&A
- 16:10 *Coffee & tea Break*

Session 5: Marine Ecosystem Health

Chair: Virginie C. TILOT

- 16:40 **The challenges of conserving marine biodiversity in a context of sustainable development. From exploratory assessments to ocean governance**, by Dr. Virginie C. TILOT, member of RAOS, Director of Section of Natural and Medical Sciences
- 16:55 **Characterization of Cartilage fish derived single-domain antibody**, by Professor Yunchen BI, IOCAS
- 17:10 **Ocean and human health: research at Flanders Marine Institute (VLIZ)**, by Dr. Gert EVERAERT, Flanders Marine Institute (VLIZ)
- 17:25 **Biodiversity in arid lands and its application in the ecological improvement of endorheic basins: Aral sea and Tetima lake as examples**, by Professor Yuanming ZHANG, XIEG
- 17:40 Q&A
- 17:55 *Conclusions*