



Partnership for
Observation of the Global Ocean



@POGO_Ocean #POGO26



UHM UNIVERSITI
SAINS
MALAYSIA



AGENDA

POGO-26

and Side Meetings

Hosted by:

Centre for Marine and Coastal Studies

Universiti Sains Malaysia

25-28 February 2025

Venue: Gurney Bay Hotel, Penang

Sponsored by:



Agenda

26th POGO Annual Meeting (POGO-26) and Side Meetings

Venue:

Gurney Bay Hotel, 53 Persiaran Gurney 10250, Penang, Malaysia

Week at a glance

	Tues 25 Feb	Wed 26 Feb	Thurs 27 Feb	Fri 28 Feb
	POGO-26 Science Meeting <i>(Venue: Gurney Bay Hotel)</i>	POGO-26 Science Meeting <i>(Venue: Gurney Bay Hotel)</i>	POGO-26 Science Meeting & Excursion <i>(Venue: Gurney Bay Hotel)</i>	POGO AGM (members only) & Board Meeting (trustees only) <i>(Venue: Gurney Bay Hotel)</i>
Morning	Open session	Open session	Open session	Closed session
Lunch	Lunch for delegates provided on-site	Lunch for delegates provided on-site	Lunch for delegates provided on-site	Lunch for AGM delegates provided on-site
Afternoon	Open session	Open session <hr/> Poster session	14:00 Excursion <i>(CEMACS & Georgetown Heritage Site)</i>	Board of Trustees Meeting
Evening	18:30 – 21:00 Conference Dinner All delegates <i>(Venue: Seh Tek Tong Cheah Kongs)</i>	19:00 – 21:30 Members' dinner <i>(AGM attendees only, Venue: Richard Rivalee Designer & Chef)</i>	<i>No planned social event</i>	19:00 – 21:30 Board dinner <i>(trustees & guests only, Venue: Gurney Bay Hotel)</i>

Social Events

Tuesday 25th February

18:30 – 21:30 Conference Dinner

Seh Tek Tong Cheah Kongsi

Armenian Street, George Town, Penang.

<https://cheahkongsi.org/>

Wednesday 26th February (AGM attendees only)

19:00-21:30 AGM Dinner (“no host”)

Richard Rivalee Designer & Chef

Macalister Lane, George Town, Penang.

<https://www.facebook.com/richardrivaleedesignerandchef>

Friday 28th February (trustees and guests only)

19:00-21:30 Board Dinner

Setiawan room, Gurney Bay Hotel

Gurney Drive, George Town, Penang.

<https://www.panpacific.com/en/hotels-and-resorts/pr-gurney-bay/eat/the-banquet.html#show-form>

POGO Open Meeting (POGO-26)

25th–27th February 2025

Venue: Gurney Bay Hotel

53 Persiaran Gurney 10250, Penang, Malaysia

Tuesday 25th February

8:30 – 9:00 Registration and welcome coffee

9:00 – 9:25 Opening session (MC: Dr. Abe Woo Sau Pinn, CEMACS, USM)

- 9:00 Host welcome (Prof. 'Dato Aileen Tan Shau Hwai, Director of CEMACS, USM)
- 9:05 Opening remarks (Prof. Dato' Seri Ir. Dr. Abdul Rahman Bin Mohamed, Vice-Chancellor, USM)
- 9:10 Remarks from the POGO Chair (Capt. Francisco Arias, INVEMAR, Colombia)
- 9:15 Welcome speech (YB Wong Hon Wai, Penang State EXCO for Tourism and Creative Economy)
- 9:25 Closure of formal opening session Cultural performances
 - Group photo
 - Cultural performance

9:45 – 9:50 Meeting logistics (Hosts and Secretariat)

9:50 – 11:15 Showcase of oceanography and ocean observing in Malaysia (Chair: Aileen Tan Shau Hwai)

- 9:50 Introduction (Aileen Tan Shau Hwai, CEMACS)
- 9:55 An affordable, customisable and open source instrument for ocean monitoring in Malaysia (Wee Cheah, Institute of Ocean and Earth Sciences, Univ. Malaya)
- 10:05 Initial assessment of ocean acidification status in the Northern Straits of Malacca (NSOM) waters (Jamil Tajam, UiTM)
- 10:15 Building resilient coral reefs: Malaysia's commitment to restoration and conservation (Mahadi Mohammad, School of Biological Sciences, USM)
- 10:25 The Coastal and Oceanography Research Centre, NAHRIM: Strengthening oceanographic and nearshore data capabilities in Malaysia (Dunstan Anthony Pereira, National Water Research Institute of Malaysia, NAHRIM)
- 10:35 Observation in CEMACS: Increasing capacity through collaboration (Abe Woo Sau Pinn, CEMACS, USM)

11:05 – 11:30 Coffee break

11:30 – 12:30 Updates on POGO activities, Part 1 (Chair: Nick Owens)

- 11:30 Highlights (Francisco Arias, POGO Chair)
- 11:40 Progress Report (Sophie Seeyave/Lilian Krug/Fiona Beckman, POGO Secretariat)
- 12:10 Update from Western Pacific Regional Node (Hui Zhou, IOCAS, China)
- 12:20 NF-POGO-OFI Centre of Excellence (Anya Waite, OFI, Canada)

12:30 – 13:30 Lunch on-site

13:30 – 15:15 Updates on POGO activities, Part 2 (Chair: Yara Rodrigues)

- 13:30 SEAGRASS (Aileen Tan Shau Hwai, CEMACS)
- 13:40 Training initiative on Statistical analysis of oceanographic data in Bangladesh (Subrata Sarker)
- 13:50 AtlantOS/Agulhas Boundary Current (Tammy Morris, SAEON)
- 14:00 BIOTTA (Benjamin Botwe, *remote*)
- 14:10 Coastal Observing Lab in a Box (COLaB) (Benjamin Botwe, University of Ghana, *remote*)
- 14:20 International Quiet Ocean Experiment (IQOE) (Peter Tyack/Steve Simpson, *pre-recorded*)
- 14:30 New member presentation – SAEON, South Africa (Tammy Morris)
- 14:40 New member presentation – Algarve Centre of Marine Sciences, Portugal (Adelino Canário)

15:15 – 15:45 Coffee break

15:45 – 17:15 Thematic Session 1: Biomolecular observations and eDNA (Chair: Margaret Leinen)

- 15:45 The OBON program as we approach the middle of the Ocean Decade (Margaret Leinen, Scripps, USA)
- 16:00 Observing Life in the California Current using environmental DNA (Francisco Chavez, MBARI, USA)
- 16:15 The development of eDNA metabarcoding as a biomonitoring tool in mangrove ecosystems in the past five years (Alison Kim Shan Wee, Univ. Nottingham Malaysia)
- 16 :30 European initiatives to study and monitor by eDNA biodiversity changes at the land-sea interface (Raffaele Siano, Ifremer, France)
- 16:45 Evaluating the effectiveness of the eRNA technique in monitoring fish biodiversity (Hui Zhang, IOCAS, China)
- 17:00 Q&A/ Discussion

18:30 – 21:00 Conference Dinner

Venue: Seh Tek Tong Cheah Kongsi, Armenian Street, George Town, Penang

Wednesday 26th February

Venue: Gurney Bay Hotel

53 Persiaran Gurney 10250, Penang, Malaysia

09:00 – 10:30 Thematic Session 2: Towards more environmentally sustainable ocean observing (Chair: Kate Hendry)

- 09:00 Introduction (Kate Hendry, BAS, UK)
- 09:05 Transitioning to eco-friendly research vessels (Yasuhiro Namba, JAMSTEC, Japan)
- 09:12 Renewal of the Dutch research fleet, sustainability consideration (Han Dolman, NIOZ, Netherlands)
- 09:19 Design and construction of a zero-emission hydrogen hybrid research vessel at Scripps (Bruce Appelgate, Scripps, USA, *remote*)
- 09:25 Research vessels in China (Hui Zhou, IOCAS/POGO W. Pacific Regional Node, China)
- 09:32 Establishing a collaborative air-sea interface observation network in the Western Tropical Pacific (Fan Wang, IOCAS, China)
- 09:39 Fishing Vessels of Opportunity Network (Cooper van Vranken, Ocean Data Network, *remote*)
- 09:46 Recovery of Argo floats (Fei Chai, Xiamen University, China)
- 09:53 *Discussion*

10:30 – 11:00 Coffee break

11:00 – 12:30 Thematic Session 3: Ocean observations of contaminants – towards indicators or EOVs? (Chair: Francisco Arias)

- 11:00 Introduction (Francisco Arias, INVEMAR, Colombia)
- 11:05 REMARCO network: the role of cooperation and standardization for more and better data (Ana Carolina Ruiz Fernández, National Autonomous University of Mexico, *remote*)
- 11:20 Lithological Distribution of Benthic Foraminifera in Adiopodoume Bay (Jean-Paul N'goran Yao, UFHB, Ivory Coast, *remote*)
- 11:35 Modeling and observations of PCBs in shelf and inland seas with a focus on ocean dynamics (Xinyu Guo, Ehime University, Japan)
- 11:50 *Q&A/Discussion*

12:30 - 13:30 Lunch on-site

13:30 – 15:00 Thematic Session 4: Blue Carbon (Chair: Maarten Boersma)

- 13:30 Introduction (Maarten Boersma, AWI, Germany)
- 13:35 Blue Carbon experience in Colombia (Francisco Arias, INVEMAR, Colombia)
- 13:50 Sclaing blue carbon for climate (Anya Waite, Ocean Frontier Institute, Canada)
- 14:05 Blue Carbon Ecosystems of Bangladesh: Stock, Challenges, and Sustainable Conservation (Subrata Sarker, Shahjalal University of Science and Technology, Bangladesh)
- 14:20 The potential of blue carbon ecosystems for climate change mitigation (Mirco Wölfenschneider, ZMT, Germany)
- 14:35 *Q&A/Discussion*

15:00 – 15:30 Coffee break

15:30 – 17:15 Thematic Session 5: Digital Twins (Chair: Fei Chai)

- 15:30 Introduction (Fei Chai, Xiamen University, China)

- 15:35 Digital Twins in ocean science (John Siddorn, NOC, UK)
- 15:50 A DTO system in Xiamen Bay (Qian Deng, Xiamen University, China)
- 16:05 Advancing operational oceanography through Ocean Digital Twins and strengthening regional capacity in the Western Pacific (Swadhin Behera (JAMSTEC, Japan)
- 16:20 Guangdong-Hong Kong-Macao Greater Bay Area (GBA) DTO System (Chuyong Lin, Southern Marine Science and Engineering Guangdong Laboratory, China)
- 16:35 Digital twins of coral reefs: from digital model to digital shallow (Xian Qin, City University of Hong Kong)
- 16:50 *Q&A/Discussion*

17:15 – 18:15 Poster session

19:00 – 21:30 Members' Dinner (AGM attendees only)

Venue: Richard Rivalee Designer & Chef Macalister Lane, George Town, Penang.

Thursday 27th February

Venue: Gurney Bay Hotel

53 Persiaran Gurney 10250, Penang, Malaysia

9:00 – 10:45 Thematic Session 6: Marine heatwaves (Chair: Nicole Webster)

- 09:00 Introduction (Nicole Webster, IMAS, Australia)
- 09:05 Observation needs for marine heatwaves (Han Dolman, NIOZ, Netherlands)
- 09:20 A necessary perspective: the Coastal Marine Heatwaves Interdisciplinary Research group (Julio Salcedo Castro, IMAS, Australia)
- 09:35 Global changes induced marine heatwaves in NE Pacific (Yuntao Wang, SIO, China)
- 09:50 Southwest Indian Ocean marine heatwave research (Tammy Morris, SAEON, South Africa)
- 10:05 Marine heat waves over the Indian Ocean and their impacts (Sudheer Joseph, INCOIS, India)
- 10:20 Marine heatwaves and their consequences for planktonic communities (Maarten Boersma, AWI, Germany)
- 10:35 *Q&A/Discussion*

10:45 – 11:15 Coffee break

11:15 – 12:30 Thematic Session 7: Coastal impacts of El Niño and La Niña (Chair: Hui Zhou)

- 11:15 Introduction (Hui Zhou, IOCAS, China)
- 11:20 On the use of long time-series from coastal observatories to study the impacts of El Niño and La Niña along the North American Coast (Jim Edson, WHOI/OOI, USA)
- 11:35 Analysis of the influence of El Niño on marine heatwaves in Indonesian waters (Yosafat Donni Haryanto, BMKG, Indonesia)
- 11:50 Impact of ENSO decadal variability on heat content of the Indonesian Seas (Yuanlong Li, IOCAS, China)

12:05 Introduction to Korea-US Joint Observation Study of the Indian Ocean (Sujin Kang, KIOST, Republic of Korea)
12:20 Q&A/Discussion

12:30 – 12:45 Science Meeting Closure (Francisco Arias)

12:45 - 13:45 Lunch on-site

14:00 - 17:00 Excursion (open to all delegates, registration required)

- CEMACS
- Georgetown Heritage Site

Friday 28th February

Venue: Gurney Bay Hotel

53 Persiaran Gurney 10250, Penang, Malaysia

POGO AGM

See separate agenda for details. Background documents have been sent to main POGO member representatives.

9:00 Meeting Start

10:30 – 11:00 Coffee break & Group Photo

13:00 Meeting End

13:00 – 14:00 Lunch on-site (AGM delegates only)

POGO Board of Trustees Meeting

See separate agenda for details.

14:00 Meeting Start

16:00 Meeting end

19:00 Board Dinner

Venue: Setiawan room, Gurney Bay Hotel