BRASIL, 2023

CBE7 Program (complete)

MONDAY 8/14

9:00-10:15 h Registration (take your kit) and welcome coffee
10:15-10:30 h Welcome talk (Prof. Camila Signori, USP)
10:30-11:30 h Opening talk (Prof. Paulo Sumida, USP, "The hardships of studying chemosynthetic environments in Brazil")
11:30-12:00 h Oral presentations (2 diversity com. structure dynamics)

Johnson	Seascape ecology in the vicinity of a Blake Ridge cold seep
Poitrimol	Biodiversity partitioning of hydrothermal vent fauna associated with mussels and gastropods assemblages along Southwest Pacific

12:00-12:30 CoralUSP ("12 em Ponto" Group, choir conductor Eduardo Fernandes)

12:30-14:00 h Lunch
14:00-15:00 h Plenary talk (Dr. Jozée Sarrazin, Ifremer, "Vent ecology: Half a century of unprecedent discoveries")
15:00-16:15 h Oral presentations (3 diversity com. structure dynamics)

Arellano	Deep-Sea Pompeii: Hydrothermal Vent Communities Buried By Ash From The Hunga Tonga-Hunga Ha'apai Volcanic Eruption
Ladd	Hydrothermal vent colonization and microbial biofilms vary according to biogenic zone and biofilm age
Hanson	Investigating variation in *Alviniconcha* across hydrothermal vent systems

16:15-16:30 h Coffee break
16:30-17:30 h Oral presentations (2 diversity com. structure dynamics)

Thurber	Methane Seeps and Melty Stars: Methane-fueled Succession and Sea Star Wasting Syndrome co-occur in Antarctica
Avila	Nematode assemblages in chemosynthetic deep-sea ecosystems: Insights from organic falls in the Southwest Atlantic Ocean

TUESDAY 8/15

9:00-10:00 h Plenary talk (Dr. Chong Chen, JAMSTEC, “Forged by vent: Unravelling the astounding adaptations of ironclad snails”)
10:00-10:45 Oral presentations (3 microbial ecology)

Lizárraga	Exploring the Role of Rare Prokaryotes in the Twilight Zone of the Santos Basin – Brazil
Murdock	Refining species diversity to “core communities” simplifies investigation of microbial ecosystem services in complex assemblages
Santos	The influence of mesoscale eddies on chemosynthetic production and microbial community structure in Santos Basin

10:45-11:00 h Coffee break
11:00-12:00 h Oral presentations (3 symbiosis)

Lallier	Symbiosis in the deep-sea mussel *Bathymodiolus azoricus*: host-symbiont-environment relationships explored with genomic approaches
Methou	Juvenile niches select between two distinct development trajectories and symbiosis modes in vent shrimps
Lallier	Characterization of chemosynthetic symbiosis during experimental conditions in two Lucinid species from seagrass beds

12:00-14:00 h Lunch
14:00-15:00 h InterRidge talk (Prof. Sang-Mook Lee, Seoul National University, “Restless earth and life on the edge”)
15:00-15:45 h Oral presentations (3 biogeography)

Alfaro-Lucas	Functional dissimilarity and high vulnerability across faunal communities of world’s deep-sea hydrothermal vent regions
Won	Connectivity and divergence of symbiotic bacteria of deep-sea hydrothermal vent mussels in two ocean basins
Betters	Global phylogeographic context of limpets from hydrocarbon seeps at the Costa Rica Margin

16:00-19:00 h Posters (34, check the list below) and Cocktail (at the Oceanographic Institute, IO-USP)

WEDNESDAY 8/16

Day off

THURSDAY 8/17

9:00-11:00 h DSBS annual meeting - hybrid (Dr. Pierre Methou, JAMSTEC)
10:15-10:30 h Coffee Break
10:30-11:00 h DSBS annual meeting - hybrid (Dr. Pierre Methou, JAMSTEC)
11:00-12:00 h Plenary talk (Prof. Loïc Michel, University of Liège, "The place of chemosynthesis in marine food webs: towards a global perspective")

12:00-14:00 h Lunch
14:00-16:00 h DOSI talks (Dr. Ana Hilário – University of Aveiro, MSc. Monique Lima, UNESCO) and oral presentations (3 ocean decade)

Du Preez	From Cold Shoulder to Warm Embrace: The Scientific Findings causing Canadians to Fall in Love with Seep Ecosystems
Pereira	Public knowledge and valuation of methane seeps to inform deepsea conservation and management plans
Gartner	Advancing Knowledge and Conservation of Hydrothermal Vent Ecosystems in Pacific Canada: Insights from Recent Submersible Expeditions

16:00-16:30 h Coffee break
16:30-17:30 h Oral presentations (3 trophic ecology/ others)

Colaço	From active to inactive- functional connectivity across the Lucky Strike vent field
Plowman	Reciprocal subsidies of nutrients and energy between seep mussels and the overlying water column
Cesar-Ribeiro	Toxicity identification and evaluation of sediments from deep sea hydrothermal vents in the Indian Ocean Ridge

FRIDAY 8/18

9:00-10:00 h Roundtable (Prof. Vivian Pellizari - USP, Prof. Mauricio Shimabukuro - FURG, and Plenary speakers)
10:00-10:20 h Coffee break
10:20-12:00h Awards announcements; Ideas for CBE8

12:30-14:00 h Lunch
14:00 h Giro Cultural USP and Science on a Sphere (by appointments*)
14:00-17:00 h Small meetings or lab visits (by appointments**)
15:30 h Coffee break

*If you want to visit USP by bus and under guidance, please book your room. Our committee will provide a list to be signed on Tuesday (8/16).

** If you want a room for a small meeting and/or meet a specific researcher/ laboratory at the University of São Paulo, please write to us (cbe7brazil@gmail.com) until

Tuesday (8/16). We can book a suitable room and make the contact with the researcher/ professor.

LIST OF POSTERS

Poster Number	Author	Title
1	Avila	Macrofauna may facilitate colonization of whale falls by meiofauna
2	Hilario	Venturing North: megafaunal communities from the Aurora vent field (Gakkel Ridge)
3	Johnson da Silva	Meiofaunal communities in hydrothermal vents: biodiversity and resilience after an induced perturbation
4	Martins	Exploring the biodiversity of the Mesozoic oceanic ridge: findings in the Indian Ocean's hydrothermal vent ecosystems
5	Peres	Bacterial Diversity in Whale Vertebrae and Synthetic Substrates in the Deep Southwest Atlantic
6	Santana	Exploring the Secrets of Deep-Sea Corals and the Challenges of Metal Nodule Mining
7	Bergamo	Benthic macrofaunal bioindicators suggest cold seep presence at the SW Atlantic
8	Souza	BECOOL Project - A new experiment with artificially implanted organic falls in the deep Southern Ocean
9	Van Gaest	Distribution of Seep-Associated Bivalve Larvae in the Gulf of Mexico and Western Atlantic Margin
10	Cabrera De Leo	Vents, seeps, and organic falls in the NE Pacific: a window through the NEPTUNE observatory
11	Arellano	Understanding a Unique Larval Form: A Study of the Warén's Larva
12	Davis	A Study of the Larvae of a Gulf of Mexico Methane-Seep Associated Buccinid Snail
13	Xiao	Evolutionary dynamics exist between deep-sea mussels and their chemosynthetic symbionts in global hydrothermal vents
14	Bonnet	Reproductive ultrastructure in deep-sea sister Genera Alviniconcha and Ifremeria, with early insight into symbiont possible symbiont acquisition
15	Bonnet	Reproductive ultrastructure in deep-sea abyssochrysoid gastropods from the Lau Basin
16	Brandão	Novel deep-sea metagenome assembly genomes and their role in chemosynthesis
17	Butarelli	First genome description of *Methylophaga* sp. LECOM 001 recovered from deep sediment culture of Santos Basin, Brazil
18	Passos	Chemosynthetic response during a microcosm experiment in the water column of the Southwestern Atlantic Ocean
19	Wynne	Predicting the unknown: connecting gene networks to biogeochemistry using deep learning
20	McCartha	Investigating symbiont acquisition in deep-sea snails using fluorescence *in situ* hybridization

21	Park	Genomic basis of adaptation to hydrothermal vents in deep-sea mussels
22	Rice	Microbial associations and nutritional resources for an epibiotic sabellid found at Gulf of Mexico seeps
23	Cesar-Ribeiro	Mapping Hydrothermal Vents Using CTD-ROV Data: Insights from the Mesozoic Oceanic Indian Ocean Ridge Expedition
24	Requejo	Deciphering Oceanographic Patterns: Temperature and Salinity Profiles Governing Water Masses of the Mesozoic Oceanic Ridge
25	Smith	Patterns in Chemoautotrophy at the Abyssal Seafloor in the Eastern Clarion-Clipperton Zone (Northeast Pacific Ocean)
26	Brun	Deep Evolution of Alvinellidae (Annelida: Polychaeta): A Phylogenomic Comparative Approach Based on Transcriptomes
27	Jun	Population Genomic Analysis of The Scaly-Foot Snail (*Chrysomallon squamiferum*) Based on Single Nucleotide Polymorphisms (SNPs)
28	Tran Lu Y	Comparative population genomics and phylogeography of hydrothermal vent species in the southwest Pacific
29	Calhoun	Habitat characterization and suitability models for two methane seep obligate deep-sea gastropods
30	Castel	Geographic species separation and genetic differentiation of three *Alviniconcha* species in the Western Pacific
31	Gularte	Description of *Osedax* (Siboglinidae, Polychaeta) Species Colonizing Cow Bones (In-situ Experiment) in South Atlantic Ocean
32	Castro	Assessment of hydrothermal vent water and sediment toxicity in the Mid-Oceanic ridge of the Indian Ocean on marine invertebrates
33	Nomaki	Nutritional sources of vent animals at Iheya North field, Okinawa Trough revealed by natural-abundance radiocarbon
34	Leroux	Pressure of human activities on Seafloor Massive Sulphides deposit ecosystems: Delphi expert elicitation