

The Ocean Science Days in the Cape

Kelvin Grove Club & Sports Science Institute, Newlands

Cape Town, South Africa

23rd – 26th October 2018















Background

Over the past decade, the Marine Research Institute (Ma-Re) at the University of Cape Town has established a strong and successful international partnership in ocean sciences with France through the International Joint Laboratory ICEMASA, and Norway through the Nansen-Tutu Centre (NTC). To celebrate the successful conclusion of ICEMASA mandate in 2018, while Ma-Re and NTC are continuing, it looks appropriate to showcase the major progress in ocean sciences, which have been accomplished through and facilitated by this tripartite international collaboration. It is also timely to reflect on new directions for ocean science research in the decade to come.

The Ocean Science Days in the Cape are designed to serve this purpose.

Registration

The registration to this scientific event is free of charge. You are invited to register on the web page:

http://www.ma-re.uct.ac.za/icemasa-ocean-science-days

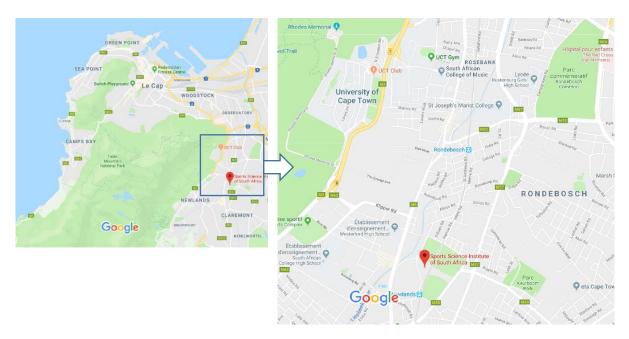
Finger lunch will be provided to participants for the duration of the colloquium.

Venue

On Tuesday 23rd October only, the colloquium will take place at Kelvin Grove Club, 144 Campground Road, Newlands https://kelvingrove.co.za/.

From Wednesday 24th to Friday 26th October, the venue will be the <u>Sports Science Institute (SSISA)</u> of South Africa, Boundary Road, Newlands, Cape Town. The SSISA is situated next to the Newlands Rugby Stadium. There will be free (nearby but offsite) parking at <u>Kelvin Grove</u> (entrance on Campground Road). The venue is within 200m of Newlands Railway Station. It is about 30 minute walk from UCT middle campus.

SSISA is shown on a map below, by the red pin drop:



Opening session

"The Ocean Science Days in the Cape" will be officially opened by Prof Susan Bourne, Dean of Science of the UCT, M. Ashley Naidoo, Chief Director of Oceans & Coasts, DEA, Ms Elisabeth Barbier, Deputy CEO of IRD, and M. Jean-Paul Toutain, Attaché for Science and Technology at the French Embassy in Pretoria. The opening session will take place on Tuesday 23 October at 11.30 am.

Presentations

The total duration for each presentation is 20 minutes. It is recommended that the talks do not exceed 15 mn to allow time for questions.

Weather

October falls within the spring season in Cape Town, which means the resort is warmer and drier than in previous months. October is also known for clearer skies and stronger sunlight than during the preceding months. The average day temperature lies between 16°C and 21°C, but cooler nights can be expected. Visitors should prepare by packing a jacket or jumper for the evening meal and after. October sees very little rain in the area (average of 9 rainy days over the month).

Eating out

There are a variety of restaurants and take-away establishments in the suburbs surrounding the venue (Rondebosch, Newlands, Claremont), and a large selection available in the city centre and V&A Waterfront.

Contact details: General queries before and during the event can be directed to Sharon Bosma, Marine Research Institute at the following email address Sharon.bosma@uct.ac.za

Acknowledgements

Sharon Bosma (organisation and logistics) Sven Ragaller (web support) French Embassy in South Africa (sponsoring) All presenters

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PROGRAMME

Tuesday 23	rd October 2018	
11:30 - 12:1	5 Opening session by Prof Susan Bourne, Dean of Science of the UCT, M. Ashley Naidoo, Chief Director Oceans & Coasts, DEA, Ms Elisabeth Barbier, Deputy CEO, IRD, and M. Jean-Paul Toutain, Attaché for Science and Technology, French Embassy in Pretoria	
12:30	FINGER LUNCH	
	Session 1 - New challenges in fisheries management	Chair: Prof Coleen Moloney
14:00	Indicators for the Seas (IndiSeas): a French-South African initiative	Lynne Shannon (UCT)
14:25	Is Climate Change Impacting South Africa's Marine Fisheries?	Stephen Lamberth (DAFF)
14:50	From English Channel discard ban to Benguela pelagic fisheries: an inquiry into the added value of a more complex representation of ecosystem-fishers interactions	Pierre Bourdaud (UCT)
15:15	TEA / COFFEE BREAK	
15:35	Variability of species' trophic level – does it matter?*	Jodie Reed
16:00	Continuing to support of ecosystem-based management: where to from here	Lynne Shannon (UCT)
16:25	End of Day 1	
Wednesday	24th October 2018	
00.00	Session 2 - Understanding regional patterns and variability	Chair: Dr Issufo Halo
09:00	Role of the Agulhas current on South African climate *	Arielle Nkwinkwa Njouodo
09:25	Upscaling effects of mesoscale wind/SST interactions on Southern Africa atmospheric circulation	Fabien Desbiolles (UCT)
09:50	Spatio-temporal features of the Agulhas current variability	Julie Deshayes (CNRS)
10:15	Lagrangian pathway in the southern Benguela upwelling system *	Moagabo Ragoasha
10:40	TEA / COFFEE BREAK	
11:10	Shelf-edge processes in the southern Benguela	Jennifer Veitch (SAEON)
11:35	Inertial oscillations in St Helena Bay and implications for tracer dynamics st	Giles Fearon
12:00	Eddies in the greater Agulhas Current system	Pierrick Penven (IRD)
12:25	A new definition of the South-East Madagascar Bloom and analysis of its variability $\ensuremath{^*}$	Fehmi Dilmahamod (by skype)
12:50	FINGER LUNCH	
14:00	Variability in the Benguela Upwelling System and connection with the equatorial dynamics	Serena Illig (IRD)
	Session 3 - Novel modelling approaches	Chair: Dr Jennifer Veitch
14:25	A coupled biogeochemical model in the Great Agulhas system	Julie Deshayes (CNRS)
14:50	Descent in scale in the modelling of the Benguela upwelling system	Steven Herbette (UBO)
15:15	TEA / COFFEE BREAK	
15:35	APECOSM modelling of anchovies in the Benguela *	Nandipha Mhlongo
16:00	Machine learning as a tool to fill the gap in our understanding and ability to model CO_2 in the Southern ocean	Luke Gregor (CSIR)
16:25	Future modelling projects for the Benguela	Y. Shin , O. Maury (IRD)
16:50	End of Day 2	and M. Vichi (UCT)
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Session 4 - Southern Ocean	Thursday 25th October 2018				
Southern Ocean marine aerosols How do contemporary model seasonal cycle biases influence long term projections of CO2 fluxes in the Southern Ocean * Sarah Fawcett (UCT)			Chair: Prof Marcello Vichi		
projections of CO2 fluxes in the Southern Ocean * The upper ocean nitrogen cycle in the Atlantic Southern Ocean Trace metal Fe in the SO TEA / COFFEE BREAK 11:10 Air-sea interactions in the Marginal lec Zone * Session 5 - Seamounts ecosystems 11:35 Hydrological processes at seamounts 12:40 Mesoscale variability of plankton in the SWIO - is there a seamount effect? Margaux Noyon (NMU) 12:25 Micronekton distribution and assemblages at two shallow seamounts of the South West Indian Ocean * FINGER LUNCH Session 6 - Ecosystem research in the East and South coasts of South Africa 14:25 Acent OR research activities on the South African east coast and in the WIO region. Insight from the contribution to the ACEP, FAO-NANSEN, IIOE2, and Seamount projects Providing research platforms and infrastructure in support of risk and vulnerability studies TEA / COFFEE BREAK 15:40 Current and proposed marine research programmes at the University of Fort Hare, Eastern Cape 16:00 The advantages of system dynamics models in decision-support for integrated ocean management 16:25 ACEP - Value proposition and where to next End of Day 3 Friday 28th October 2018 Sean fenessy (ORI) Open discussion based on the 3 dynamism for marine ecosystem functioning in the WIO achievements and future projects WIOURI-IIOE2 2016-26: A unifying dynamism for marine ecosystem functioning in the WIO achievements and future projects Wiouring in the WIO -achievements and future projects TEA / COFFEE BREAK 10:40 Open discussion based on the 3 morning talks and the outcomes of the 3 days colloquium. Invited stakeholders to participate.	09:00		Katye Altieri (UCT)		
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FINGER LUNCH	13:00	Closing remarks			
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^{*} Talks given by Masters students or PhD candidates from UCT, SUN, UBO, UM.