



2019 INTERNATIONAL INDIAN OCEAN SCIENCE CONFERENCE

Nelson Mandela University - North Campus Conference Centre

University Way, Summerstrand, Port Elizabeth, 6001, South Africa

11-15 March 2019

INFORMATION BOOKLET

[DRAFT / PROVISIONAL]

[Updates posted on <http://www.iioe-2.incois.gov.in/IIOE-2/IIOESC2019.jsp>]

(Version 16: Updated 1001 AM 28 February 2019 by Nick D'Adamo)

Note updated 'Shuttle Transport' section in Section 6.

1. HOSTS

Nelson Mandela University, Port Elizabeth, South Africa

Contact: Professor Mike Roberts, UK-SA Bilateral Research Chair, National Oceanography Centre, Southampton — Nelson Mandela University, Mike.Roberts@mandela.ac.za, mobile +44 7947 906306 (UK)/+27 82 496 4190 (SA)

UNESCO Intergovernmental Oceanographic Commission Perth Programme Office (IOC PPO), Perth, Western Australia, Australia

Contact: Dr Nick D'Adamo, Head IOC PPO, nick.dadamo@bom.gov.au, Ph mobile +61 (0) 409 680 247 / Office +61 8 92262899

2. CONFERENCE SPONSORS

On behalf of all groups meeting during the conference week, the conference organisers would like to acknowledge Nelson Mandela University, the Scientific Committee on Oceanic Research (SCOR), the Indian Ocean Global Ocean Observing System (IOGOOS) and UNESCO IOC PPO as major sponsors and supporters of the 2019 International Indian Ocean Science Conference.

We also wish to acknowledge: Nelson Mandela University for local support in hosting, coordination, arrangements and logistics; the British Consulate for sponsoring the Monday evening cocktails, the SOLSTICE robotics VIP Demonstration and the Mariner Robotics WIO Workshop; and the Western Australia Global Ocean Observing System Inc. (WAGOOS), through Chair Dr Ray Steedman, for WAGOOS's administrative support to the IOC Perth Programme Office in its co-hosting role.

3. CONFERENCE OVERVIEW

See **Attachment 1** for the finalised conference schedule. In summary, the integrated set of meetings comprise:

- 3rd meeting of the Second International Indian Ocean Expedition (IIOE-2) Steering Committee;
- 15th annual meeting of the Indian Ocean Global Ocean Observing System Regional Alliance (IOGOOS);
- 15th annual meeting of the CLIVAR/IOC-GOOS Indian Ocean Region Panel (IORP);
- 9th annual meeting of Sustained Indian Ocean Biogeochemistry and Ecosystem Research (SIBER) of IMBER/IOGOOS;
- 9th annual meeting of the Indian Ocean Observing System (IndOOS) Resource Forum (IRF) of IOGOOS;
- IndOOS Review Workshop;
- Workshop of the IOC Regional Committee for the Central Indian Ocean (IOCINDIO);
- West Indian Ocean / South African marine scientific presentations; and
- West Indian Ocean marine ocean observing / robotics workshops and demonstrations (various; SOLSTICE led)

4. CONFERENCE VENUE

Main Venue: North Campus Conference Centre (<https://conference.mandela.ac.za/Venues-and-Rates/North-Campus-Conference-Centre.aspx>) Nelson Mandela University, University Way, Summerstrand, Port Elizabeth, 6001, South Africa. The IIOE-2/IORP/SIBER/IRF/IndOOS/IOGOOS/IOCINDIO meetings will be held here.

The university is on the western edge of a suburb called Summerstrand (See Figures 2-4). It is isolated in that there are no hotels in the immediate vicinity (see Accommodation below).

SOLSTICE Robotics VIP Demonstration and British High Commission sponsored reception: Ocean Science Campus (OSC)

The 11 March 2019 (1800-2000) SOLSTICE Robotics VIP Demonstration and British High Commission sponsored reception will be held at the Ocean Science Campus (OSC).



The OSC is some 500 m away from the main venue. This will be focused on the invited VIPs and optional for delegates.

Marine Robotics Workshop (WIO focus): This 12 March 2019 half-day event will be held in the smaller auditorium (adjacent to the main auditorium) in the North Campus Conference Centre. Invited delegates.

See **Attachment 2** for a location maps of the North Campus Conference Centre and the Ocean Science Campus.

5. AIR TRAVEL AND TRANSPORT (TRANSFERS)

All international flights go through Johannesburg, the largest city in South Africa. There are several connecting flights a day from Johannesburg to the coastal city of Port Elizabeth. Flight time is about 1.5 hr. Port Elizabeth airport is lovely and small, and very easy to take a taxi right outside the Arrivals entrance to you accommodation in Summerstrand. Journey will take about 10 minutes. Fare should be around \$ 10 (R 150).

6. ACCOMMODATION & DAILY VENUE TRANSPORT

Accommodation bookings are the responsibility of participants. Participants are kindly advised to make their hotel and flight bookings as soon as possible.

The following accommodation notes are for your reference and guidance. Please note that they may be subject to change at the time of booking.

Shuttle transport

Important: A shuttle bus will be arranged to collect delegates outside the main entrance of the hotels listed below which will transport them to and from the conference venue.

Delegates not staying at these hotels need to walk to these collection points.

It is possible to walk along the beach front (Marine Drive) and onto University Way (See Figure 3) where the conference venue is situated but this will take about 45 min. It is also easy to arrange a taxi. "Uber" taxis work particularly well here.

Monday 11 March

Collection Point	Time
Road Lodge	08h00
The Boardwalk	08h05
The Beach Hotel	08h10
Protea Hotel	08h15
Raddison Blu Hotel	08h20

Tuesday 12 to Friday 15 March

Collection Point	Time
Road Lodge	08h20
The Boardwalk	08h25
The Beach Hotel	08h30
Protea Hotel	08h35
Raddison Blu Hotel	08h40

Notes:

1. A shuttle service will be supplied on Monday at the conference closure to transfer the full delegation to the Ocean Science Campus where the SOLSTICE Robotics VIP Demonstration will be held starting at 18h00. At the closure of the event (20h00) shuttles will transfer all delegates back to the hotels.
2. A shuttle service will also be supplied to take those interested delegates to the Marine Robotics in-water Demo which will be held either in the ocean at Shark Rock or the NMU swimming pool – conditions dependent. 09h00 to 11h00.

Shuttle bus transfers back to the hotel collection points will leave the conference venue 15 min after the daily closure.

Summerstrand is the nearest suburb to the venue with several hotels and lots of B&Bs (See Figures 2-4). The suburb is adjacent to the main swimming beaches with a lovely promenade. Some suggested hotels are given below although there are others. These are all close to each other (1.5 km furthest apart). There are a number of restaurants in Summerstrand too. The hotels listed below are provided as a starting list for your reference and that you may wish to select from. Note that the shuttle bus pick-up points will be at only a number of specific hotels (see above). Rates below (in USD and Rand) are approximate and subject to change. Please check with your own preferred hotel.

Hotel 1: The Beach Hotel (3.6 km from venue) ****

Price per night ~\$ 125-165 (R 1 800-R 2 400)

Address: Marine Dr, Summerstrand, Port Elizabeth, 6000, South Africa

Phone: +27 (0)41 502 3050

Email: reservations@pehg.co.za

<http://www.thebeachhotel.co.za/>

Note added on 25 Jan 2019: Beach Hotel advised on 24 Jan 2019 that they can offer a special rate – anyone wishing to enquire on what rate is available will need to contact the Hotel directly reservations@pehg.co.za or contact number 041 502 3050.

Hotel 2: The Boardwalk Hotel (3.7 km from venue) *****

Price per night ~\$ 170-330 (R 2 400 – R 4 700)

Address: Beach Road, Summerstrand, Port Elizabeth, Eastern Cape, 6001, South Africa

Phone: +27 41 507 7777

Email: boardwalk.reservations@suninternational.com

<https://www.suninternational.com/boardwalk/>

Hotel 3: Protea Hotel (Marriott) Port Elizabeth Marine (2.9 km from venue) ***

Price per night ~\$ 140-170 (R 2 000-R 2 400)

Address: Marine Drive, Summerstrand, Port Elizabeth 6001 South Africa

Phone: +27 41 583 2101

Email: reservations via website

<https://www.marriott.com/hotels/travel/plzma-protea-hotel-port-elizabeth-marine/>

Hotel 4: Town Lodge Port Elizabeth (3.8 km from venue) **

Price per night ~\$ 70 (R 1 000)

Address: 50 Beach Rd, Summerstrand, Port Elizabeth, 6013, South Africa

Phone: +27 41 509 2000

Email: (See website)

<https://clhg.com/hotels/272/Town-Lodge-Port-Elizabeth>

Hotel 5: Road Lodge Port Elizabeth (3.8 km from venue) *

Price per night ~\$ 50 (R 700)

Address: Marine Dr, Summerstrand, Port Elizabeth, 6001, South Africa

Phone: +27 41 583 4404

Email: (See website)

<https://clhg.com/hotels/359/Road-Lodge-Port-Elizabeth>

Bed & Breakfasts (B&Bs)

There are many very fine B&Bs in the back streets of Summerstrand which can be found on the internet. Prices generally range from about \$ 40-75 (R 600 - R 1 000) per night and usually include breakfast.

If you do stay at other accommodation, please ensure that you note that you will have to walk (or obtain your own transport) to the bus shuttle collection points (again, see above).

7. REGISTRATION

PLEASE NOTE THAT REGISTRATIONS CLOSE ON 1 MARCH 2019.

To register for IIOSC 2019 please click



<https://www.eventbrite.com/e/international-indian-ocean-science-conference-2019-tickets-53673984332>

This will direct you to the *Eventbrite website*, where payment can be made by credit card.

You will be able to register for your respective chosen days of attendance, on a day-by-day basis. A **daily** registration fee of **\$76.16 Australian Dollars** applies. Please check the conference schedule (Attachment 1) to identify which days you wish to register for.

For catering purposes, please indicate if you have any dietary requirements.

Participants are kindly reminded that registration fees are required to be paid in advance of the conference via the Eventbrite payment link (above). When you first arrive please confirm your registration data and receive your conference badge along with other useful information at the registration desk, which will be located in the conference foyer and will be staffed at the following times:

- Monday 11 March 8am – 9am
- Tuesday 12 March 8am – 9am
- Wednesday 13 March 8am – 9am
- Thursday 14 March 8am – 9am
- Friday 15 March 8am – 9am

The desk will have records of the days you have paid to be registered. If you arrive when the desk is unattended, please identify yourself to one of the meeting organisers as soon as possible.

Important: Please always wear your badge, as it is important that you are identifiable as a conference attendee and for catering purposes.

8. OPENING CEREMONY

The Conference will be officially opened at 9am on Monday 11 March at the North Campus Conference Centre, Nelson Mandela University. See **Attachment 2** for a map of the Nelson Mandela University.

9. MEETING OVERVIEW AND PARTICIPATION ADVICE (see full meeting schedule at Attachment 1)

- Please note that for attendance at the SOLSTICE related workshops on days 1 and 2 (ie Mon and Tues 11 and 12 March 2019, respectively) all registration and attendance queries should go to Prof Mike Roberts at Mike.Roberts@mandela.ac.za.
- For all of the other meetings (IIOE-2, IOCINDIO, IndoOS, IRF, IORP, SIBER & IOGOOS), please note that non-affiliates (ie non-members) of those groups may be accepted into some of the

meetings - as observers. This is in order to promote opportunistic collegiate interaction, relationship building and identification of synergies and opportunities for collaborations between the international groups that are meeting and local/regional stakeholders that may be present during the week.

- However, please also note that some of the meetings will be closed and will only involve group 'members' – this is due to the nature of discussions to take place, being either of a business or private nature.
- To enquire about possible attendance at individual meetings please refer (by email) any requests for attendance as an observer to the 'principal contact persons' listed in the table below for the respective meetings in question.

Date (2019)	Meeting/Event	Principal contact person for general information on the meeting/event of the day
Mon 11 Mar	Opening Ceremony, South Africa / WIO Sessions SOLSTICE Robotics VIP Demonstration & Sponsored reception by British High Commission	Mike Roberts Mike.Roberts@mandela.ac.za
Tue 12 Mar	IIOE-2 Steering Committee Meeting	Nick D'Adamo nick.dadamo@bom.gov.au
	SOLSTICE-led WIO Marine Robotics Workshop	Mike Roberts Mike.Roberts@mandela.ac.za
Wed 13 Mar	IIOE-2 Steering Committee Meeting	Nick D'Adamo nick.dadamo@bom.gov.au
	IOCINDIO 2019 Workshop	Justin Ahanhanzo (IOCINDIO Secretariat) J.Ahanhanzo@unesco.org
Thur 14 Mar	IndOOS Review Workshop	Jing Li jing.li@clivar.org
	IRF-9	Nick D'Adamo nick.dadamo@bom.gov.au
Fri 15 Mar	IORP-15	Jing Li jing.li@clivar.org
	SIBER-9	Raleigh Hood rhod@umces.edu
	IOGOOS-15	Nagaraja Kumar raja@incois.gov.in

10. AGENDAS

Detailed agendas for all meetings are being prepared by the respective co-chairs/secretariats. Please regularly visit the IIOE-2 website at <http://www.iioe-2.incois.gov.in/IIOE-2/IIOESC2019.jsp> to directly access available agendas as they become available. If you have any

questions about the agendas, please direct them to the appropriate co-chairs/secretariats (see the names and emails of those personnel in the table of Section 9, above).

Note:

- All co-chairs/secretariats will need to have a laptop from which they can run their meetings. It is advisable that you are equipped with both HDMI and RS232 laptop-to-projector connectors. The meeting organisers will require copies of all presentations by the end of each day, and the co-chairs/secretariats will be approached to ensure that these are provided. Your assistance in compiling these is appreciated.
- All participants please note that presentations given at the conference will be made available to participants (in PDF format) following the conclusion of the conference – individual requests on a daily basis may not be accommodated.

11. INTERNET & POWER

South Africa operates on a 220V supply voltage at 50Hz. Conference participants (e.g. from Japan, USA and Canada, which use 100/120V 50/60Hz) may need to consider the need for a voltage converter.

South African power plugs and sockets across types D, M and N.

- Type D: mainly used in India, Sri Lanka, Nepal, and some African countries. This socket only works with plug D.
- Type M: looks like plug D, but with larger pins. This socket only works with plug M.
- Type N: used in Brazil and South Africa. This socket also works with plug C.



Note:

- Participants are recommended to bring appropriate Power Adapters to enable use of wall sockets.
- Meeting co-chairs/secretariats will be advised of the AV facilities at the venue. Please be mindful of the need to bring the appropriate adaptors to ensure you can connect your laptops to enable you to run your meeting sessions.
- Kindly keep phones on silent during sessions.



- Please note that power outlets are limited within the meeting rooms. It is recommended that you come with your laptop and other electronic devices charged. Thank you.

12. CATERING

For each day of the conference, registered delegates will be provided with morning tea, lunch and afternoon tea. Vegetarian and vegan options will be provided. Please complete the online registration to identify your dietary requirements.

The local hosts and or other sponsors may provide sponsored evening receptions and/or dinners on selected nights, but these are yet to be confirmed and will depend on any sponsorships that may come forth, closer to the date.

Please assume that dinners will be at your own expense unless further advised closer to the date.

**ATTACHMENT 1:
2019 International Indian Ocean Science Conference
Meeting Schedule**

	Monday 11th	Tuesday 12th	Wednesday 13th	Thursday 14th	Friday 15th	
0800-0900	Registration	Registration	Registration	Registration	Registration	
0900-1030	Opening Ceremony	IIOE-2 SC3	IIOE-2 SC3	IndOOS Review	IORP-15/SIBER-9	
1030-1100	Tea/Coffee	Tea/Coffee	Tea/Coffee	Tea/Coffee	Tea/Coffee	
1100-1230	South Africa session (incl. WIO focus)	IIOE-2 SC3	IIOE-2 SC3	IndOOS Review	IORP-15/SIBER-9	
1230-1330		Lunch	Lunch	Lunch	Lunch	
1330-1500	South Africa session (incl. WIO focus)	IIOE-2 SC3	Marine robotics workshop (WIO focus)	IIOE-2 SC3	IndOOS Review	SIBER-9 IORP-15
1500-1530		Tea/Coffee		Tea/Coffee	Tea/Coffee	Tea/Coffee
1530-close of day	South Africa session (incl. WIO focus) (1530-1730)	IIOE-2 SC3 (close 1700)	IOCINDIO 2019 Workshop (3.30-6.30pm)	IRF-9 (close 1700)	IOGOOS-15 (close 1700)	
Evenings	**1800-2000 sponsored event at OSC. British High Commission. <i>See below for details</i>	Free evening	Free evening	Free evening	Free evening	
<p align="center">** 1800-2000 Monday 11 March 2019. Sponsored Event - British High Commission. <i>Shuttle transport: 1800 from North Campus Conference Centre to Ocean Sciences Campus (OSC); 2000 OSC back to hotels</i></p> <p>SOLSTICE Robotics VIP Demonstration, Ocean Sciences Campus (OSC) <i>20 min OSC tour 20 min SOLSTICE Marine robotics in action 20 min Planet Ocean: new mini AUVs</i></p> <p>British High Commission: Cocktails/finger supper reception (OSC) <i>Host: Nigel Casey MVO, British High Commissioner to South Africa</i></p>						

ATTACHMENT 2:

General Information on Port Elizabeth

In and around Port Elizabeth ... a natural playground ... so much to do!

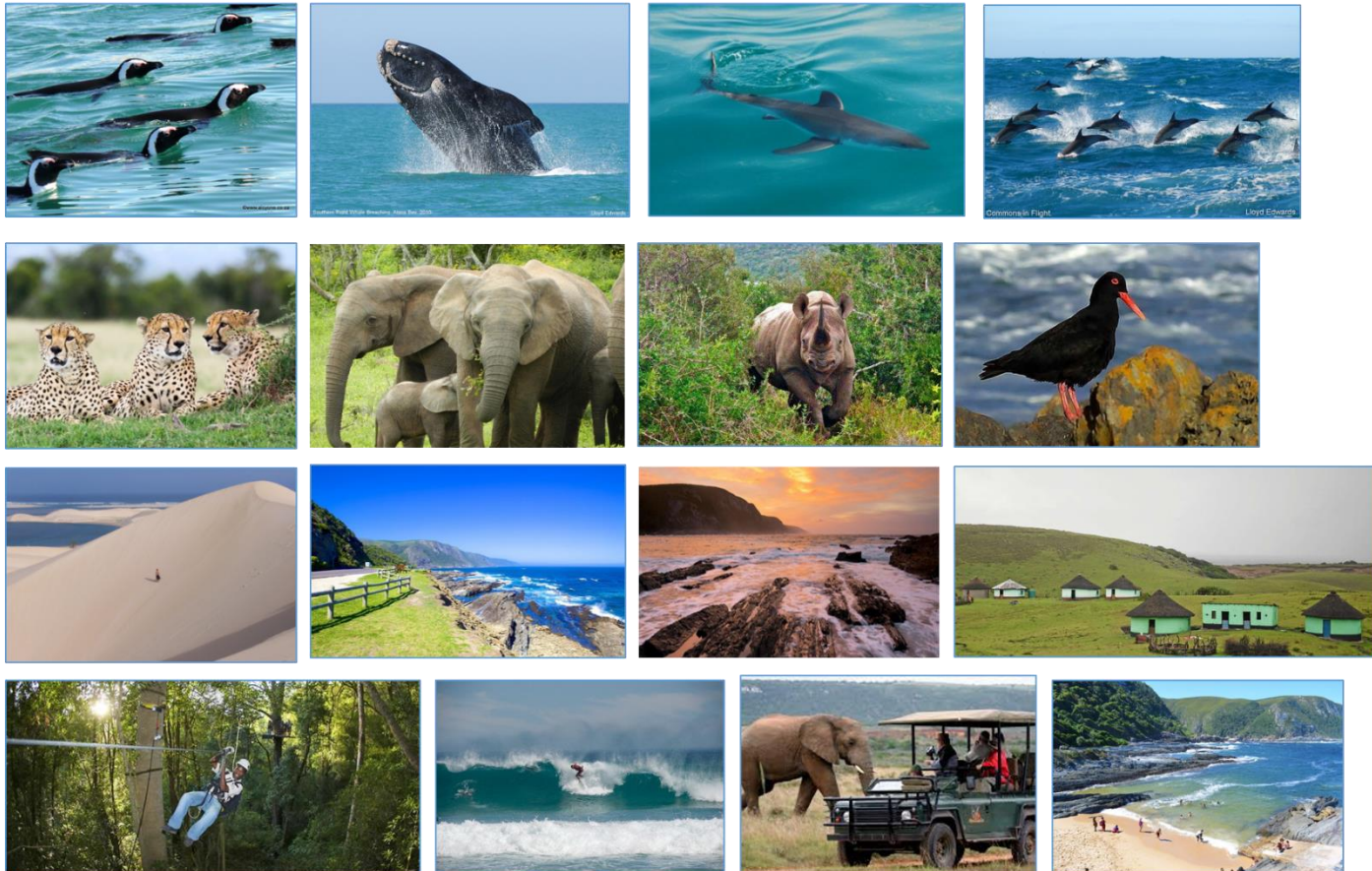


Figure 1: Port Elizabeth is the main city in the Eastern Cape Province. The city is on the shores of the large Algoa Bay which has an incredible mix of natural beauty, wonders and activities in the vicinity. Game parks are only an hour away from the city and are a must for international visitors (ideally you need to spend a few days with game drives). If you have the time, hire a car and drive along the coast (called the *Garden Route*) to Cape Town over several days (700 km). Places to stop over along the way include Tsitsikamma National Park, Plettenberg Bay, and Knynsa. You can also venture inland at George crossing two sets of mountains into the Great Karoo where it is so flat you can see into next week. Prince Albert via the Swartberg Pass, Matjiesfontein are a must on this route. March is the best time of the year to visit South Africa as not too hot.

Port Elizabeth & Nelson Mandela University



Figure 2: Aerial view of Port Elizabeth (Summerstrand) looking eastwards. PE is a small city with a population of around 1.5 million.



Figure 3: As above looking westwards. These are the main swimming beaches. The tall building of Nelson Mandela University can just be seen on the horizon. The hotels are all along this beach front. B&Bs are usually situated just behind these hotels. The venue is close to the tall NMU building, about 3.8 km away from the beachfront area (bus shuttle route = red dotted line).

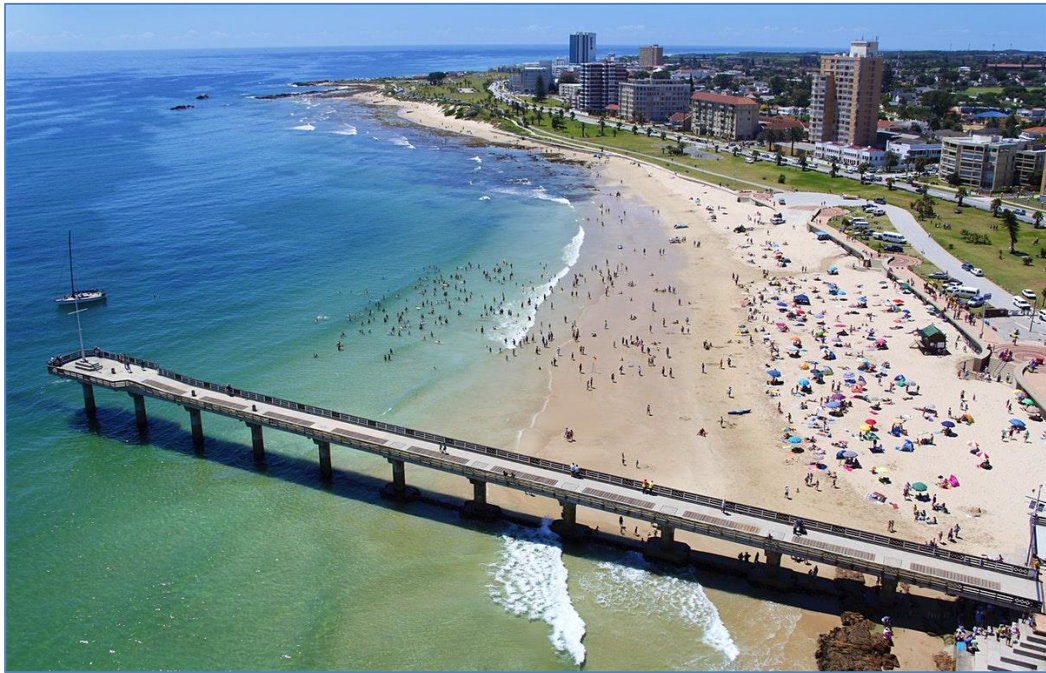


Figure 4: A closer view of the main swimming beach (Hobie Beach) with Shark Rock pier in the foreground.



Figure 5: Aerial view of the main (South) Campus of the Nelson Mandela University. The tower building is that which is just seen in Figure 2. The venue is on the North Campus just out of sight to the left of this picture. The campus has wild game roaming the grounds.

Conference Centre



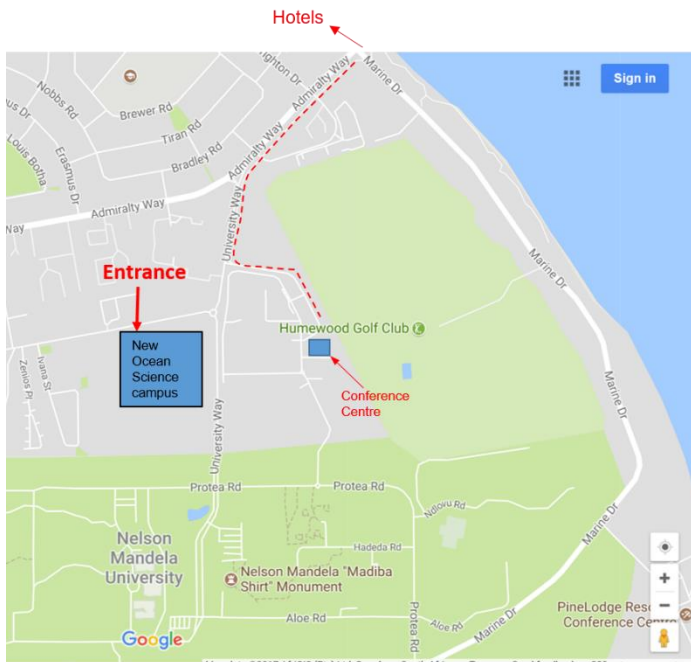
Figure 6: The IIOE-2/IORP/SIBER/IRF/IndOOS/IOGOOS/IOCINDIO Conference venue “ North Campus Conference centre”. The main auditorium hosts 120 delegates.

<https://conference.mandela.ac.za/Venues-and-Rates/North-Campus-Conference-Centre>

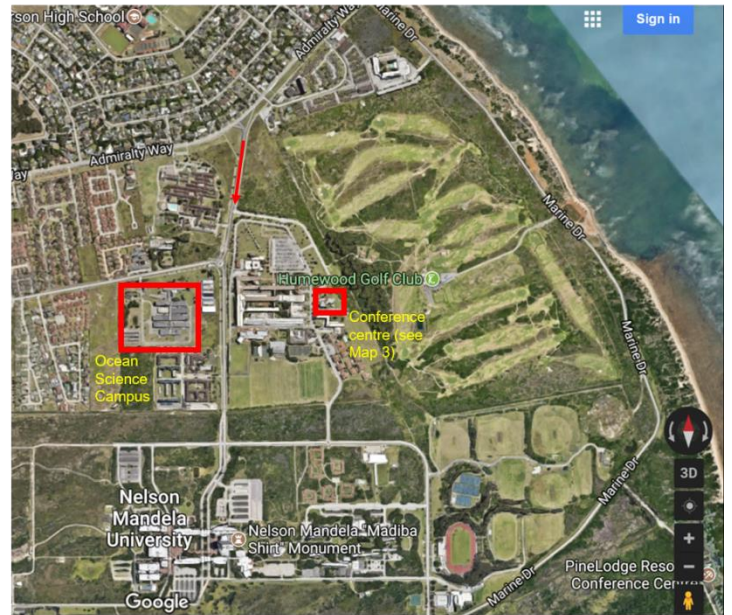


Figure 7: Entrance to the Ocean Science campus which is 400 m away from the IIOE-2/IORP/SIBER/IRF/IndOOS/IOGOOS/IOCINDIO venue. The SOLSTICE VIP Robotics Demonstration (Day 1) will be held here.

Maps

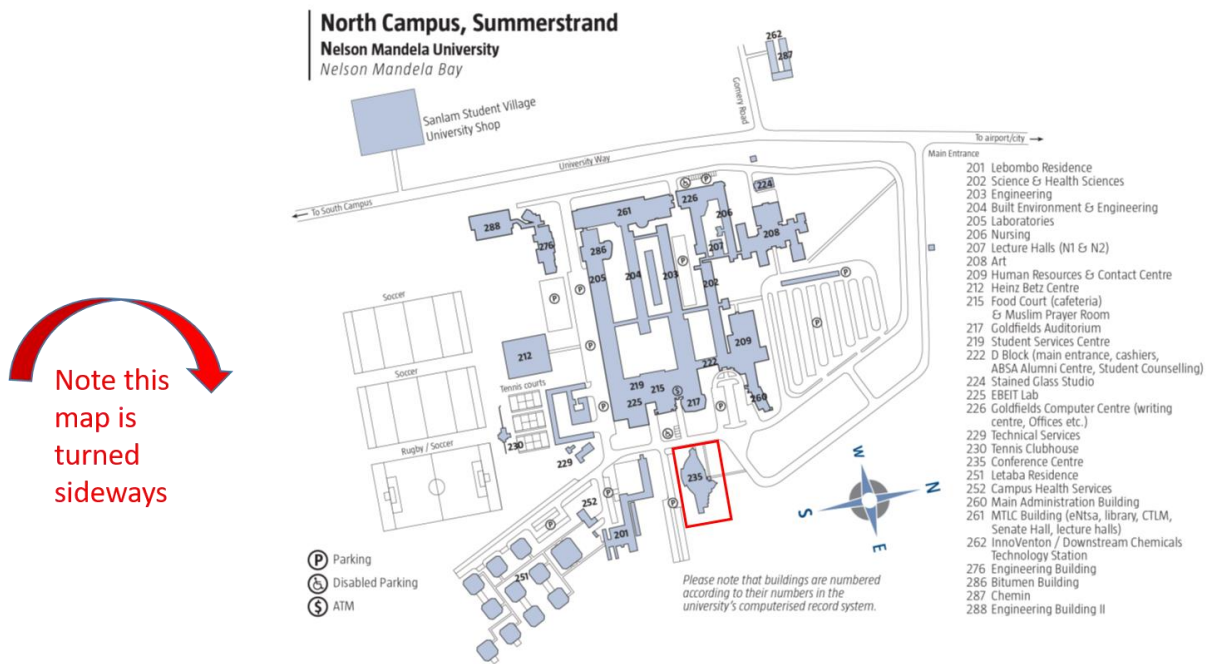


Map 1



Map 2

Showing the North Campus Conference Centre (IIOE-2/IORP/SIBER/IRF/IndOOS/IOGOOS/IOCINDIO Venue) and the Ocean Way Sciences Campus



Map 3

Details of the how to find the North Campus Conference Centre. A bus will be arranged to collect delegates from the hotels indicated in this brochure (see Section 6, above)

2019 International Indian Ocean Science Conference, Port Elizabeth, South Africa, 11-15 March