

**Day 1: 18th June 2019, Tuesday**

<b>Time</b>	<b>Programme</b>	<b>Venue</b>
<b>8.00 -9.00 am</b>	Registration of Participants	Foyer Dewan Besar Sultan Salahuddin Abdul Aziz Shah, Universiti Putra Malaysia
<b>Opening Ceremony</b>		
<b>9:00am</b>	Arrival of guests	Dewan Besar Sultan Salahuddin Abdul Aziz Shah, Universiti Putra Malaysia
<b>9:15 am</b>	Arrival of YB Puan Isnaraissah Munirah binti Majilis, Deputy Minister of Energy, Science, Technology, Environment & Climate Change (MESTECC)	
<b>9:30 am</b>	<p>Arrival of His Royal Highness the Sultan of Terengganu, Patron of Sultan Mizan Antarctic Research Foundation</p> <ul style="list-style-type: none"><li>•. Negaraku and Selamat Sultan songs</li><li>•. Doa recitation</li><li>•. Welcoming speech by Prof. Datin Paduka Dato' Dr. Aini Ideris, Vice Chancellor of Universiti Putra Malaysia (UPM)</li><li>•. Remarks by YB Puan Isnaraissah Munirah binti Majilis, Deputy Minister of MESTECC</li><li>•. Opening declaration by His Royal Highness the Sultan of Terengganu, Patron of Sultan Mizan Antarctic Research Foundation</li><li>•. Presentation of Sultan Mizan Antarctic Research Foundation 2019 Research Grant Award</li><li>•. Keynote speech by Prof. Dr. Timothy Naish, entitled "<i>What does the Paris Climate Agreement Mean for Antarctica and the Southern Ocean?</i>"<ul style="list-style-type: none"><li>•. Departure of His Royal Highness the Sultan of Terengganu, Patron of Sultan Mizan Antarctic Research Foundation to visit the exhibition booth</li></ul></li></ul>	
<b>1:00 – 2:00 pm</b>	Lunch for Participants	Foyer, Level 2, Bangunan Canselori PUTRA

<b>2.00 – 2:30 pm</b>	Registration of Participants		Foyer Mini Auditorium (Level 3), Bangunan Canselori PUTRA
<b>2.30 - 3.10 pm</b>	<b>Plenary 1: Policy, Governance and Social Sciences and Humanities</b> <b>Chairperson: Dr. Goh Hong Ching</b> <b>Prof. Dr. Akiho Shibata: Future and Challenges of Antarctic Governance</b>		Mini Auditorium 2 (Level 3), Bangunan Canselori PUTRA
<b>3.10 – 3.40 pm</b>	Tea Break & Poster Session		Foyer, Level 2, Bangunan Canselori PUTRA
	<b>Biology</b> <b>Chairperson: Prof. Dr. Wan Maznah Wan Omar</b> <b>Mini Auditorium 2 (Level 3), Bangunan Canselori PUTRA</b>	<b>Polar Meteorology and Atmospheric Chemistry</b> <b>Chairperson: Dr. Mohd Shahrul Mohd Nadzir</b> <b>Bilik Sri Putra 1 (Level 2), Bangunan Canselori PUTRA</b>	<b>Policy, Governance and Social Sciences and Humanities</b> <b>Chairperson: Dr. Rashidah Abd. Wahab</b> <b>Bilik Sri Putra 2 (Level 2), Bangunan Canselori PUTRA</b>
<b>3.40 – 4.00 pm</b>	Wan Lutfi Wan Johari The Growth of the Antarctic Isolate, <i>Rhodococcus</i> sp. on Diesel Under the Effect of Selected Heavy Metals	Seong-Joong Kim The role of atmosphere and ocean on recent trend in Antarctic sea ice	Nasaruddin Abd. Rahman Evolution of Malaysia's Policy and Governance for Antarctica
<b>4.00 – 4.20 pm</b>	Rozida Mohd Khalid Unlocking the secrets of cold adaptation in psychrophilic yeast <i>Glaciozyma antarctica</i>	Mohd Shahrul Mohd Nadzir Atmospheric Surface Ozone and Isoprene Measurement during MASEC'16	Ahmad Firdaus Internationalisation Practice in University Research: An Experience of Polar Research's Collaboration
<b>4.20 – 4.40 pm</b>	Ahmad Fareez Ahmad Roslee Assessment of Antarctic Bacterium <i>Rhodococcus</i> sp. strain AQ5-07 for Low-Temperature Degradation of Diesel	Mohd Fadzil Firdzaus Mohd Nor In-situ observation of wind speed and direction using SOnic Detection And Ranging (SoDAR) in Jang Bogo Station during winter 2017 season.	Ahmad Firdaus Internationalisation at Home: Enculturing Socio-scientific Issues of the Polar Regions in Higher Education Curriculum

<b>4.40 – 5.00 pm</b>	Teoh Chui Peng Cold Stress Response of a Cold-Adapted Bacterium <i>Cryobacterium</i> spp. SO1 from Fildes Peninsula, Antarctica	Lee Yu Jen A Further Investigation into the Use of an Inverse Model for Sea Ice Thickness Retrieval	Hong Ching Goh School engagement through collaboration in the case of University of Malaya and Sultan Mizan Antarctic Research Foundation, Malaysia
<b>5.00 - 5.20 pm</b>	Wong Hao Jie UVB-Induced DNA Damage and Repair in <i>Pseudogymnoascus</i> spp. Isolated from Arctic and Antarctic Regions	Muhammad Yunus Ahmad Mazuki Climatology of strong wind events at Terra Nova Bay, Antarctica	Noor Ashikin Mohamad Antarctica Legislation: Importance and Challenges
<b>5.20 – 5.40 pm</b>	Nuradilla Mohamad Fauzi Thermal Stress Response In Polar and Temperate <i>Pseudogymnoascus</i> Spp. Soil Fungi	Norbayah Yusop Study of Lightning Flash Activity over Western Antarctica	Haliza Abdul Rahman Knowledge, Awareness and Practice on Climate Change among Community in Kuala Lumpur
<b>END OF DAY 1</b>			

**Day 2: 19th June 2019, Wednesday**

<b>Time</b>	<b>Programme</b>			<b>Venue</b>
<b>8.30 am</b>	Registration of Participants			Foyer Mini Auditorium 2 (Level 3), Bangunan Canselori PUTRA
<b>9.00 - 9.40 am</b>	<b>Plenary 2: Biology</b> <b>Chairperson: Prof. Dr. Clemente Michael Wong</b> <b>Dr. Gwen Fenton: Surviving and thriving in Antarctica and the Southern Ocean in a changing world</b>			Mini Auditorium 2 (Level 3), Bangunan Canselori PUTRA
<b>9.40 – 10.20 am</b>	<b>Plenary 3: Physical Sciences</b> <b>Chairperson: Dr. Justine Sentian</b> <b>Prof. Dato' Dr. Azizan Abu Samah: Malaysian Antarctic Research Program on Antarctic Weather and Climate and its Tele-connection to the Tropics</b>			Mini Auditorium 2 (Level 3), Bangunan Canselori PUTRA
<b>10.20 – 10.40 am</b>	Tea break and poster session			Foyer, Level 2, Bangunan Canselori PUTRA
	<b>Biology</b> <b>Chairperson: Assoc. Prof. Dr. Noor Azmi Shaharuddin</b> <b>Mini Auditorium 2 (Level 3), Bangunan Canselori PUTRA</b>	<b>Polar Meteorology and Atmospheric Chemistry</b> <b>Chairperson: Dr. Sheeba Nettukandy Chenoli</b> <b>Bilik Sri Putra 1 (Level 2), Bangunan Canselori PUTRA</b>	<b>Biology</b> <b>Chairperson: Prof. Dr. Cheah Yoke Kqueen</b> <b>Bilik Sri Putra 2 (Level 2), Bangunan Canselori PUTRA</b>	
<b>10.40 – 11.00 am</b>	Clemente Michael Wong Vui Ling Putative Antimicrobial Peptide-Coding Genes from Antarctic Bacterium <i>Pedobacter</i> sp. Strain BG5	Justin Sentian Surface Ozone Variations during Austral Summer at Great Wall Station, Antarctica	Noor Faizul Hadry Bin Nordin Diesel-Degradation Potential of Antarctic Bacteria Isolated From Diesel Contaminated Soil	
<b>11.00 – 11.20 am</b>	Kok Yih Yih Toxicity of Copper and Lead in a Tropical and an Antarctic isolate of Chlorella after Short- and Long-Term Exposure	Siti Syairah Atiqah Azhar The atmospheric circulation features of teleconnection between the Indian Ocean sector's sea ice extent and the Indian	Azzmer Azzar Bin Abdul Hamid Comparative Structural analysis of Haloacid Dehalogenase TypeII: Insight from cold-adaptive environment	

		Summer Monsoon Rainfall	
<b>11.20 – 11.40 am</b>	Tan Yong Hao Investigating the response of polar marine phytoplankton <i>Chlorella</i> sp. towards elevated oceanic CO <sub>2</sub> using a metabolomics approach	Ahmad Faris Ali Ship hull Inspection using Remotely Operated Vehicle	Ching Xin Jie Genome of a Thermophilic Bacterium, <i>Geobacillus</i> sp. TFV3 from Deception Island, Antarctica
<b>11.40 – 12.00 pm</b>	Emienour Muzalina Binti Mustafa Effect of Ferum contamination on growth, biochemical composition and superoxide dismutase enzyme activity in <i>Chlorella</i> sp collected from Peninsular Antarctic	Muhammad Azri Torpedo-Shaped Micro Autonomous Underwater Vehicle for Coral Reef Inspection	Ahmad Bazli Ramzi Microbial synthetic biology for advancing biotechnological applications of Antarctic microbes
<b>12.00 – 12.20 pm</b>	Nur Athirah Binti Yusof Structure And Function Of A Novel Cold Regulated Cold Shock Domain Containing Protein From An Obligate Psychrophilic Yeast, <i>Glaciozyma antarctica</i>	Muhammad Hasifullah Ibrahim The Surface Climatology of the Antarctic Peninsula	Mohamad Firdaus bin Osman Characterisation of Two Antarctic Cyanobacterial Isolates from Signy Islands with Tolerance Towards UV-B Radiation
<b>12.20 – 12.40</b>	Muhammad Asyraf bin Abd Latip Optimization Growth Rate of Bacteria-producing Cold-active Proteolytic Enzyme from Antarctica Region	Mohd Bakri Adam Extreme Values Modelling of Temperature, Precipitation and Wind Speed in Antarctica	
<b>12.40 – 2.00 pm</b>	Lunch: Foyer, Level 2, Bangunan Canselori PUTRA		
	<b>Biology</b> <b>Chairperson: Dr. Wong Chiew Yen</b> <b>Mini Auditorium 2</b> <b>(Level 3), Bangunan Canselori</b> <b>PUTRA</b>	<b>Biology</b> <b>Chairperson: Dr. Wan Lutfi Wan</b> <b>Johari</b> <b>Bilik Sri Putra 1 (Level 2), Bangunan</b> <b>Canselori PUTRA</b>	<b>Biology</b> <b>Chairperson: Dr. Mohd. Rizman Idid</b> <b>Bilik Sri Putra 2 (Level 2), Bangunan</b> <b>Canselori PUTRA</b>
<b>2.00 – 2.20 pm</b>	Cheah Wee Phytoplankton as a food source for deep-sea foraminifera in the Southern Ocean	Nur Fadzliana Binti Abdul Rahman Soil Bacterial Diversity of Browning Peninsula, Windmill Islands, East Antarctica revealed by NGS approach	Wan Mohd Rauhan bin Wan Hussin Functional traits of benthic communities in the West Antarctic Peninsula

<b>2.20 – 2.40 pm</b>	Rafidah Rasol Review on Genes Involved in Pathways of Mycosporine-like Amino Acids Biosynthesis	Mansur Abdulrasheed Optimisation of Biodegradation Conditions for Diesel Oil Removal by Cold-adapted <i>Arthrobacter</i> sp. Strain AQ5-05 from Antarctica Using Response Surface Methodology Approach	Maria Binti Jaafar Potential Antimicrobial Activity of Bacteria Isolated from Soil Sample of Ross Island, Antarctica
<b>2.40 – 3.00 pm</b>	Zoya Khan The Genome of Psychrotolerant <i>Pseudanabaena</i> Strain Isolated from High Arctic: A NGS Approach Revealing Complex Association of Genes and Adaptation	Salihu Ibrahim Application of Response Surface-based Optimisation for Optimising Pure Canola Oil-degrading Parameters under Temperate Conditions Using the Cold-adapted Antarctic Bacterium <i>Rhodococcus</i> sp. AQ5-07	Fabian Davamani Exploiting temperature and nutritional conditions for Poly microbial biofilm formation from Antarctic soil samples
<b>3.00 – 3.20 pm</b>	Ng Yi Ching The Comparison of Soil Metagenome Analysis between Tropical and Polar Region	Kavilasni Subramaniam Aerobic Degradation of Phenol by Antarctic Bacterium <i>Arthrobacter</i> sp. AQ5-15 in the Presence of Heavy Metal	Faradina Merican Mohd. Sidik Merican Phenotypic Evaluation on Selected Terrestrial Cyanobacteria from Signy Island, South Orkney Islands Antarctica
<b>3.20 – 3.40 pm</b>	Aminu Surajo Usman Investigating Toxin Production in Three Decades Deep Freeze Cyanobacterial Mats from Ponds and Hydro-terrestrial Environments Collected from Cape Royds, Rose Island, Antarctica	Mohd Shukuri Mohamad Ali Structural adaptation and potential application of lipase from Antarctic <i>Pseudomonas</i>	Nur Syazana Mohd Zaki Polyphasic characterization of toxin producing cyanobacteria from Cryopreserved Antarctica Cyanobacteria Mats
<b>3:40 -4:00</b>	Tea Break		Foyer, Level 2, Bangunan Canselori PUTRA
<b>4:00</b>	Award Presentation & Closing Ceremony		Mini Auditorium 2 (Level 3), Bangunan Canselori PUTRA
	END OF MISA8		

**Day 3: 20th June 2019, Thursday****Workshop on Tropical Antarctic Teleconnection (TATE)**

Bilik Sri Putra 1 (Level 2), Bangunan Canselori PUTRA

0900-0920 0920-0930	Registration Opening of the workshop	
0930-0950	Malaysian contributions to Tropical Antarctic Teleconnection (TATE)	Prof. Dato' Dr. Azizan Abu Samah, Director, National Antarctic Research Centre, Malaysia
0950-1010	Tropical teleconnections to Antarctica: The role of decadal SST variability	Assoc. Prof. Dr. Ryan L. Fogt, Director, Scalia Laboratory for Atmospheric Analysis, Ohio University Department of Geography, Ohio University (Remote talk)
1010-1030	The role of southern annular mode (SAM) on Antarctic climate change	Prof. Dr. Seong-Joong Kim, Principal Research Scientist, Division of Polar Climate Science Korea Polar Research Institute
1030-1050	Amazon and Antarctic stable isotope ratios in the 2016 – 2017 Southern Brazilian rainfall	Prof. Dr. Francisco Aquino, Director of the Polar and Climate Center, Institute of Geosciences - UFRGS
1050-1100	Refreshment: Foyer, Level 2, Bangunan Canselori PUTRA	
1100-1230	Discussion session : 1. On the gap in the knowledge and developing dissemination strategies for a potential project and identifying suitable partnerships and linkages. 2. Workshop report to be published in a ISI journal	
1230 - 0300	Wrap-up and closing	
1300	Lunch: Foyer, Level 2, Bangunan Canselori PUTRA	

**Day 3: 20th June 2019, Thursday****Workshop on Workshop on State of the Antarctic Ecosystem (AntECO)**

Bilik Sri Putra 2 (Level 2), Bangunan Canselori PUTRA

0900-0930 0930-0930	Registration Ice Breaking	
0940-0945	Background Briefing	A. Prof Dr. Mohd Yunus Abd Syukor (Chairperson, Local Organising Committee, MISA8)
0945-1000	About AntEco	Dr. Jan Strugnell (Video/Skype)
1000-1015	Discussion points 1	Dr. Jeff Bowman (Video/Skype)
1015-1030	Discussion points 2	Dr. David Pearce (Video/Skype)
1030-1045	Refreshment: Foyer, Level 2, Bangunan Canselori PUTRA	
1045-1200	Section Briefing – Overview Bacteria  Fungi  Algae	Dr. Chong Chun Wie; Prof Cheah Yoke Kqueen  Assoc. Prof Dr. Siti Aishah Alias; Dr. Nuradilla Mohamad Fauzi  Prof. Dr. Lim Phaik Eem; Dr. Teoh Ming Li
1200 - 1330	Lunch: Foyer, Level 2, Bangunan Canselori PUTRA	
1330 - 1500	Break out discussion: Respective Section Leaders	
1330 - 1545	Group Presentation and Discussion	
1545 - 1600	Refreshment: Foyer, Level 2, Bangunan Canselori PUTRA	
1600 - 1700	Summary: Main structure/ topics covered in the review  Appointment of key members and finalising timeline for manuscript draft	