## Tentative Program

### Science and Research Symposium

**November 26, 27, 28, 2018**

**University of Nairobi, Chandaria Hall**

#### Day 1 - Monday, November 26, 2018

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<td>Lunch and welcoming remarks</td>
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<td>14:30 – 15:00</td>
<td>Keynote address: The role of science and research in advancing a sustainable blue economy</td>
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**Lunch and welcoming remarks**

1. **Ambassador (Dr.) Amina Mohamed**, CAV, EGH, Cabinet Secretary, Ministry of Education, Science and Technology
2. **Ambassador Peter Thomson**, UN Special Envoy for the Oceans, Fiji
3. **Ms. Mariko KANEKO**, Director, Second African Division, Ministry of Foreign Affairs of Japan
4. **Prof. Peter M. F. Mbithi**, EBS, Vice Chancellor, University of Nairobi

**Keynote address: The role of science and research in advancing a sustainable blue economy**

**Moderator:** **Prof Micheni Ntiba** (Kenya), P- PS – SDFA&BE  
*Panel discussion (30 minutes)*

1. **Dr. Marie-Alexandrine Sicre**, President, Scientific Committee of Oceanic Research
2. **Prof. Michael Dooms**, Vrije Universiteit – Brussels
15:00 – 16:00  
**Plenary: Demystifying the sustainable blue economy**

**Keynote speaker:** Prof. Pierre Failler, University of Portsmouth (10 minutes)

**Moderator:** Dr. Divaldo Rezende  
*Panel discussion (35 minutes)*

1. Vladimir Ryabinin, Intergovernmental Oceanographic Commission  
2. Eng. Scott Mclean, Ocean Networks Canada  
3. Prof. Martin Thuo, IOWA State University  
4. Dr. Joseph Shevel, President, Galilee International Management Institute, Israel (Israeli experience in sustainable development)  
5. Prof. Li Jian, National Institute of Marine Development, China

*Discussion and Q & A session (15 minutes)*

16:00 – 16:30  
**Photo session and tea / coffee break**

16:30 – 17:40  
**Plenary: Investing in blue economy research, innovation and human capital**

**Keynote speaker:** Prof. Paul Connolly (10 minutes)

**Moderator:** Dr. Sunil Sweenerain Soobashand  
*Panel discussion (35 minutes)*

1. Prof. Collette A. Suda, PhD, FKNAS, CBS, Chief Administrative Secretary and Principal Secretary, State Department for University Education and Research, Ministry of Education  
   - “The role of higher education in advancing science and research in the sustainable blue economy”  
2. Michael Dodds, Global Research Institute University, North Carolina  
3. Dr. Jacqueline Uku, Kenya Marine and Fisheries Research Institute  
4. Prof. Jeremy Prince, Biospherics Pty Ltd, Australia  
5. Andrew Stewart, Manager of Ocean Science, Fisheries and Oceans Canada

*Discussion and Q & A session (15 minutes)*
### Day 2 - Tuesday, November 27, 2018

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<td>08:30 – 9:00</td>
<td><strong>Registration &amp; meet and greet session</strong></td>
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| 09:00 – 10:00 | **Plenary: The role of science in infrastructural economics and marine spatial planning**  
**Keynote speaker: Dr Nigel Bradley** (10 minutes)  
**Moderator: Prof. Joseph Kamuzhanje**  
*Panel discussion (35 minutes)*  
1. Philip Olale, Nairobi Centre for Advanced Studies, Environmental Law  
2. Prof. Doug Wallace, Dalhousie University  
3. Dr. Julius Francis, Western Indian Ocean Marine Science Association (WIOMSA)  
*Discussion and Q & A session (15 minutes)* |
| 10:00 – 10:30 | **Tea/coffee break**                                                    |
| 10:30 – 13:00 | **4 Concurrent Breakaway Sessions**                                     |
|             | **1. Education and building capacities (Room MLT 01)**                   |
|             | **Moderator: Giuseppe Pace**                                            |
|             | *Panel discussion (90 minutes)*                                         |
|             | 1. **Dr. Alida Bundy**: The inclusive blue economy: integrating humans and nature into ocean science for management, governance and opportunities |
|             | 2. **Prof. Kwasi Appeaning Addo**: IDRC projects climate change adaptation research and capacity development in Ghana and Deltas |
|             | 3. **Dr. Beatrice Matiri-Maisori**: Knowledge management and the blue economy: an exploratory research |
|             | 4. **Agnes Muthumbi**: Aquaculture for food security: the role of academic and research institutions in Africa |
|             | 5. **Jackson Efitre**: Building capacity for climate change mitigation and adaptation |
|             | *Discussion and Q & A session (60 minutes)*                            |
2. **Aquaculture resources** *(Room MLT 405)*

**Moderator: Prof. Mucai Muchiri**

*Panel discussion (90 minutes)*

1. **Dotan Eyal**: Advanced aqua farm with food and economic security
2. **Harrison Charo-Karisa**: Aquaculture plans for Africa
3. **Prof. Min Kuan-Hong**: Sustainable aquaculture in the blue economy
4. **Veronica Hijojoa Sardan**: IDRC Amazon Fish for Food project, Bolivia
5. **Paul Orina**: State of cage culture in Lake Victoria Kenya
6. **Dr. Aleksander Patrzykat**: Ocean inspired protein sources for human nutrition
7. **Prof. Michael N. I. Lokuruka and Martha Muteti**: Current experimental observations making Kenya’s aquaculture unable to contribute to poverty reduction

*Discussion and Q & A session (60 minutes)*

3. **Pollution-free water bodies** *(Room MLT 404)*

**Moderator: Joseph Dennis**

*Panel discussion (90 minutes)*

1. **Dr. Christophe Frankiewicz**: Minimizing heavy metals in landfills and waterways through unique commercially viable approaches
2. **Dr. Cornelius Were Okello**: Climate action, waste management and pollution-free aquatic systems
3. **Lucie Kirstein**: Decarbonation pathways for international maritime transport industry
4. **Hans-Otto Portner**: climate change and ocean acidification
5. **Dr. Bronte Tilbrook**: Global ocean acidification observations support the sustainable use of marine resources
6. **Stephen Mangi**: The Economic implication of ocean acidification on shellfish fisheries and aquaculture: UK case study
7. **Briony Coulision**: Oceans and plastic pollution

*Discussion and Q & A session (60 minutes)*
4. **Maritime security** *(Room MLT 03)*

**Moderator: Dr. Francis Vorhies**
*Panel discussion (90 minutes)*

1. **Prof. Peter Kagwanja**: Maritime security and the blue economy: a knowledge and research agenda
2. **Constance Gikonyo**: Criminalization of maritime privacy: a challenge to maritime security, safety and enforcement
3. **Njoki Mboce**: Tenacity of maritime security threats: case for a more effective multilateral enforcement

*Discussion and Q & A session (60 minutes)*

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**13:00 – 14:00**

**Lunch break**

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**14:00 – 16:00**

4 **Concurrent Breakaway Sessions**

1. **Mapping blue economy resources** *(Room MLT 01)*

**Moderator: Juan Valle Robles**
*Panel discussion (90 minutes)*

1. **Prof. James Njiru**: RV Mtafiti and oceanographic research in relation to blue economy and investments
2. **Kim Juniper**: Marine genetic resources – a reality check
3. **Prof. Nobert Opiyo Akech**: Exploring technological and policy solutions for sustainable and inclusive development of the blue economy for developing countries: a focus on mineral and energy resources
4. **Koen Vanstaen**: The value of information realizing the economic benefits of mapping marine resources
5. **Dr. Josephine Songa**: Mapping living marine resources for a sustainable blue economy in Kenya

*Discussion and Q & A session (30 minutes)*
2. **Fisheries (Room MLT 405)**

**Moderator: Dr. Tatján Batas**  
*Panel discussion (90 minutes)*

1. **Catherine Lambert Koizumi**: Indigenous communal fisheries in Eastern Canada: an inspiring model of collaborative management, ocean sustainability and social equity
2. **Prof. Julius Manyala**: Application of Artificial Neural Networks (ANN) to fish catches and environmental data: a predictive approach to fisheries resilience
3. **John Burton**, CEO, POLE AND Line Foundation – Developing sustainable fishing one by one fishing
4. **Dr. Gladys Okemwa**: Marine capture fisheries and opportunities for blue economy growth
5. **Dr. Christopher Aura**: Capture fisheries in freshwater lakes in relation to the blue economy
6. **Hezbon Onyango**: From how many to how much? Economic and financial valuation of Lake Victoria fisheries, Kenya
7. **Alice Mutie**: Potential of preparing highly gel-formable gelatin from fish scales waste

*Discussion and Q & A session (30 minutes)*

3. **Climate change (Room MLT 404)**

**Moderator: Pierre Failler**  
*Panel discussion (90 minutes)*

1. **Dr. Atsushi Watanabe**, Climate change: its impacts on coastal ecosystems: ocean acidification and coral reef biogeochemistry
2. **Prof. Olof Linden**: Climate change and the blue economy
3. **Nathan Bindoff**: Impacts of climate change on marine biodiversity and ecosystem function, ocean physics and chemistry, including heat waves
4. **Dr. James Kairo**: Mainstreaming blue carbon ecosystems into national development and climate change agenda
5. **Charlotte De Fontaubert** (World Bank): Impacts of climate change to sectors of the blue economy
6. **Dr. Judith Gobin**: Small islands, the blue economy and climate change

*Discussion and Q & A session (30 minutes)*
4. **Regulatory regimes** *(Room MLT 03)*

**Moderator:** Jo-Anne AKROYD  
*Panel discussion (90 minutes)*

1. **Prof. Robin Mahon:** The role of regional ocean governance in achieving the blue economy and SDG 14
2. **Prof. Ben Sihanya:** Intellectual property rights and the blue economy (How do you secure intellectual property rights?)
3. **Dr. Akunga Momanyi:** Towards a more inclusive global economy regime: the case for a better global framework
4. **Dr. Iraki XN:** Exceptionalism of the blue economy in Africa
5. **Prof. Wambua Musili:** Maximization of blue economy potential

*Discussion and Q & A session (30 minutes)*

**16:00 – 16:20**  
**Tea/coffee break**

**16:20 – 17:40**  
**3 Concurrent Breakaway Sessions**

1. **Community mobilization and involvement** *(Room MLT 01)*

**Moderator:** Anu Chaudhary  
*Panel discussion (60 minutes)*

1. **Prof. Peter Blair:** Frugal innovations in appropriate use of resources in outreach, education and community mobilization
2. **Stewart Rogers:** Sustainable fisheries and communities
3. **Dr. Steven Cole:** IDRC project on combining post-harvest fish value chains and social change interventions in Zambia and Malawi
4. **Prof. Henry Mutembei:** Research activities at WMI: blue economy strategy
5. **Philip Olale** – Governing the land-sea continuum: role of spatial planning in controlling pollution in sustainable management of Kenya’s coastal marine zone
6. **Prof. George Imbenzi:** Lessons from Pacific North West on the “sustainable blue economy”, Canada

*Discussion and Q & A session (20 minutes)*
2. Sustainable use of non-biological resources (Room MLT 405)

Moderator: Nigel Bradly

Panel discussion (60 minutes)

1. Prof. Craig Hutton: Ecosystems services for wellbeing in deltas: integrated assessment for policy analysis in coastal Bangladesh
2. Prof. John Mmari: The potential of blue economy resources
3. Prof. Nobert Opiyo: Exploring technological and policy solutions and inclusive development of the blue economy

Discussion and Q & A session (20 minutes)

3. Climate action resilience (Room MLT 404)

Moderator: Prof. Joseph Kamuzhanje

Panel discussion (60 minutes)

1. Paal Bakken: Regeneration of ocean forest: importance of seaweed
2. Bryony Townhill: Too hot to handle? Or simply too complicated to communicate.
3. Dr. Sophia Johannessen: Blue carbon sequestration in seagrass meadows: a misunderstood carbon sink
4. Michelle Devlin: Ecosystem resilience and human impact in the pacific oceanscape: current status and future directions
5. Corinne Le Quéré: Climate change and the carbon cycle

Discussion and Q & A session (20 minutes)

Day 3: Wednesday, November 28, 2018

08:00 – 10:00 Plenary: Summary of outcomes from the breakaway sessions

Moderator: Dr. Beatrice Matiri Maisori

Repertoires

1. Role of science and research in advancing a sustainable blue economy
2. Demystifying the sustainable blue economy
3. Investing in blue economy research, innovation and human capital
4. The role of science in infrastructural economics and marine spatial planning
5. Sustainable use of resources
6. Climate action resilience
7. Global connectivity and transport
8. Blue economy and sustainable cities
10:00 – 10:20  
**Tea/coffee break**

10:20 – 12:30  
**Call to Action**

*Keynote speaker: Amb. (Rtd) Yogendra Kumar* (10 minutes)

**Plenary: High Level Commitments**

*Moderator: Prof Collette SUDA*

- Countries and Governments
- High-level research institutions
- Multilateral organizations
- Civil societies
- Private Sector
- Other stakeholders

12:30 – 14:00  
**Wrap-Up**

Preparation of recommendations for output of SBEC
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