

Tentative Program



Program

Science and Research Symposium

November 26, 27, 28, 2018
University of Nairobi, Chandaria Hall

Day 1 - Monday, November 26, 2018

12:30

Registration

13:15 – 14:30

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

14:30 – 15:00

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 Doms**, 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

08:30 – 9:00

Registration & meet and greet session

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)



10:30 – 13:00
continued

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 Hiojosa 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)

10:30 – 13:00
continued

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 piracy: 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)

13:00 – 14:00

Lunch break

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)



14:00 – 16:00
continued

2. Fisheries (Room MLT 405)

Moderator: Dr. Tatjan 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)

14:00 – 16:00
continued

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)



16:20 – 17:40
continued

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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