

# The Second International Workshop on Eco-shoreline Designs for Sustainable Coastal Development

Date: 28-31 May 2018

## Programme - Day 1 (28 May 2018)

Venue: Lecture Theatre P4 in Chong Yuet Ming Physics Building, HKU

0830-0900    **Registration**

0900-0940    **Opening Ceremony** of the Workshop

**Master of Ceremonies: Professor Kenneth M. Y. Leung**, Professor and Deputy Director, School of Biological Sciences, and Scientist, the Swire Institute of Marine Science (SWIMS), HKU, Hong Kong SAR, China

**Welcoming Remarks by Professor Matthew Evans**, Dean, Faculty of Science, HKU, Hong Kong SAR, China

**Welcoming Remarks by Professor Peter Steinberg**, Director, the World Harbour Project, and Director, Sydney Institute of Marine Science, Australia

**Opening Remarks by Mr Kam-Sing Wong**, GBS, JP, Secretary for the Environment, Environment Bureau, the Government of the Hong Kong Special Administrative Region (HKSAR), Hong Kong SAR, China

**Opening Address by Ir Keith K. F. Tang**, Deputy Head of Civil Engineering Office (Port & Land), Civil Engineering and Development Department, the Government of the HKSAR, Hong Kong SAR, China

**Group Photo-Taking**

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**Session 1, Chairperson: Professor Kenneth Leung**

*School of Biological Sciences and SWIMS, HKU, Hong Kong SAR, China*

- 0940-1010    **Keynote Lecture 1 by Professor Stephen J. Hawkins**, Professor of Natural Sciences, Ocean and Earth Science, National Oceanography Centre Southampton, University of Southampton, UK; Marine Biological Association of the United Kingdom, Plymouth, UK
- Keynote title: *Beyond just another brick in the wall: Diversity, connectivity and ecosystem functioning in multifunctional artificial structures*
- 1010-1040    **Keynote Lecture 2 by Dr Shimrit Perkol-Finkel**, CEO and Chief Scientist, ECONcrete Tech LTD, Israel
- Keynote title: *The big blue vision – How to scale up eco-engineering solutions in coastal development and coastal protection schemes?*
- 1040-1110    Coffee Break
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**Session 2, Chairperson: Professor Peter Steinberg**

*World Harbour Project and Sydney Institute of Marine Science, Australia*

- 1110-1130    **Invited Talk 1 by Professor Yun-wei Dong**, State Key Laboratory of Marine Environmental Science, College of Ocean and Earth Sciences, Xiamen University, Xiamen, China
- Talk title: *The multiple-scale ecological consequences of armoured shorelines in China*
- 1130-1150    **Invited Talk 2 by Dr Ting Fong May Chui**, Department of Civil Engineering, HKU, Hong Kong SAR, China
- Talk title: *Modelling the temporal dynamics of benthic biomass with hydrological factors: Impact assessment of land reclamation*
- 1150-1210    **Invited Talk 3 by Dr Tom Heath**, Georges River Council, Australia
- Talk title: *Georges River foreshore eco-engineering: A case study*
- 1210-1230    **Invited Talk 4 by Dr Melanie J. Bishop**, Macquarie University and Sydney Institute of Marine Science, Australia
- Talk title: *A global analysis of factors influencing human perceptions of harbour health, and support of eco-engineering interventions*
- 1230-1400    Lunch Break
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### **Session 3, Chairperson: Professor Joe S. Y. Lee**

*Simon F. S. Li Marine Science Laboratory and School of Life Sciences, The Chinese University of Hong Kong, Hong Kong SAR, China*

1400-1420    **Invited Talk 5 by Professor Ichiro Takeuchi**, Graduate School of Agricultural Sciences and Center of Advanced Technology for the Environment, Ehime University, Matsuyama, Ehime, Japan

Talk title: *Transcriptome analysis to assess coral bleaching induced by Irgarol 1051*

1420-1440    **Invited Talk 6 by Ms Kei Wing Wong**, Department of Geology, Geography and Environmental School, Calvin College, USA

Talk title: *A critical study of coral bleaching and ecosystem management in the Great Barrier Reef*

1440-1500    **Invited Talk 7 by Dr David Baker**, School of Biological Sciences and Scientist of SWIMS, HKU, Hong Kong SAR, China

Talk title: *Coral reef restoration - Is it viable for Hong Kong?*

1500-1530    Coffee Break

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### **Session 4, Chairperson: Professor Stephen Hawkins**

*Ocean and Earth Science, National Oceanography Centre Southampton, University of Southampton, UK; Marine Biological Association of the United Kingdom, Plymouth, UK*

1530-1600    **Keynote Lecture 3 by Mr Sean O'Malley**, Managing Principal, Planner and Landscape Architect, swa, California, USA

Keynote title: *Beyond the edge; extending the shoreline*

1600-1630    **Keynote Lecture 4 by Professor Joe S. Y. Lee**, Director, Simon F. S. Li Marine Science Laboratory, the Chinese University of Hong Kong, Shatin, New Territories, Hong Kong SAR, China

Keynote title: *'Hard' versus 'soft' on fast disappearing natural shorelines – What are we missing?*

1630-1700    **Keynote Lecture 5 by Professor Peter Steinberg**, Director, the World Harbour Project; Director, Sydney Institute of Marine Science, Australia

Keynote title: *Kelp and macrophyte rehabilitation in Australia*

1700-1730    **Roundtable Discussion with the Five Keynote Speakers**

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1730-1830    **Reception for Invited Speakers and Guests**

Venue: Senior Common Room, 15/F, K. K. Leung Building, HKU

1900-2130    **Dinner for Invited Speakers and Guests**

Venue: Jan at Le Pinnacle, Shop 7 & 1/F, Block 3, Connaught Garden, 155 Connaught Road West, Hong Kong SAR, China

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## **Programme - Day 2 (29 May 2018)**

Venue: Lecture Theatre P4 in Chong Yuet Ming Physics Building, HKU

### **Session 5, Chairperson: Dr Shimrit Perkol-Finkel**

*ECONcrete Tech LTD, Israel*

- 0900-0930    **Keynote Lecture 6 by Dr Ross Coleman**, Professor and Director of Graduate Research, The University of Sydney, Australia
- Keynote title: *Artificial structures and shorelines: What's good about this?*
- 0930-1000    **Keynote Lecture 7 by Dr Laura Airoidi**, Associate Professor, Department of Biological, Geological and Environmental Sciences, University of Bologna, Italy
- Keynote title: *The challenges of maintaining functional intertidal ecosystems for coastal protection under escalating local and global stressors in urbanised coastal regions*
- 1000-1030    **Keynote Lecture 8 by Dr Jason Toft**, Senior Research Scientist, School of Aquatic and Fishery Sciences, University of Washington, Seattle, USA
- Keynote title: *The Seattle story: Effectiveness of eco-shorelines in Puget Sound*
- 1030-1100    Coffee Break
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### **Session 6, Chairperson: Dr Ross Coleman**

*The University of Sydney, Australia*

- 1100-1120    **Invited Talk 8 by Dr Louise Firth**, School of Biological and Marine Sciences, Plymouth University, Plymouth, UK
- Talk title: *Eco-engineering of the grey: Making space for nature in artificial shorelines*
- 1120-1140    **Invited Talk 9 by Dr Lynette Loke**, Department of Biological Sciences, National University of Singapore, Singapore
- Talk title: *How much enhancement is enough? Effect of habitat area and fragmentation on tropical seawall biodiversity at a landscape scale*

1140-1200    **Invited Talk 10 by Dr Edward Lau**, School of Biological Sciences and SWIMS, HKU, Hong Kong SAR, China

Talk title: *Can green engineering enhance marine biodiversity on artificial seawalls?*

1200-1220    **Invited Talk 11 by Dr Beth Strain**, Sydney Institute of Marine Science, Sydney, Australia

Talk title: *The efficacy of eco-engineered interventions for enhancing the native biodiversity of seawalls in harbours across the globe*

1220-1400    Lunch Break

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**Session 7, Chairperson: Dr Laura Airoidi**

*Department of Biological, Geological and Environmental Sciences, University of Bologna, Italy*

1400-1420    **Invited Talk 12 by Dr Eliza C. Heery**, Department of Biological Sciences, National University of Singapore, Singapore

Talk title: *Designing artificial structures with an eye on detrital production and flux*

1420-1440    **Invited Talk 13 by Dr Rebecca Morris**, National Centre for Coasts and Climate, School of BioSciences, The University of Melbourne, Australia

Talk title: *From grey to green: Efficacy of eco-engineering solutions for nature-based coastal defence*

1440-1500    **Invited Talk 14 by Mr Michael Kokora**, Faculty of Architecture, HKU; OBJECT TERRITORIES, Hong Kong SAR, China

Talk title: *Experiments in hydrodynamics*

1500-1530    Coffee Break

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**Session 8, Chairperson: Professor Stephen Hawkins**

*Ocean and Earth Science, National Oceanography Centre Southampton, University of Southampton, UK; Marine Biological Association of the United Kingdom, Plymouth, UK*

1530-1600    **Keynote Lecture 9 by Mr Richard Wenning**, Principal, Global Service Line Leader, Ecological Services, Ramboll Environment & Health, Ramboll US, Portland Maine, USA

Keynote title: *Review of eco-shoreline planning, design and construction projects in the Nordics*

1600-1630    **Keynote Lecture 10 by Dr Jon Miller**, Research Associate Professor, Stevens Institute of Technology, Hoboken, NJ, USA

Keynote title: *Eco-shoreline "success": A matter of perspective*

1630-1700    **Roundtable Discussion with the Five Keynote Speakers**

1700-1715    **Introduction to the Writing Workshop by Professor Kenneth Leung**, School of Biological Sciences and SWIMS, HKU, Hong Kong SAR, China

1715-1730    **Closing Ceremony for the 2-day Symposium and Acknowledgements by Professor Kenneth Leung**, School of Biological Sciences and SWIMS, HKU, Hong Kong SAR, China

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1730-1830    **Happy Hours for Invited Speakers and Guests**

Venue: Senior Common Room, 15/F, K. K. Leung Building, HKU

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## **Programme - Day 3 (30 May 2018; by invitation only)**

### **Writing Workshop: How to Evaluate the Success of Eco-shoreline Projects?**

Venue: 6N11 & 6N03, Kadoorie Biological Sciences Building, HKU

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| 0900-1030 | Setting the directions, syndicates' objectives, and deliverables (6N11)<br><i>Led by Professor Stephen Hawkins and Professor Joe S. Y. Lee</i> |
| 1030-1100 | Coffee break   |
| 1100-1200 | Breakout - Part I: Scoping and division of labour (6N11 or 6N03)   |
| 1200-1330 | Lunch (Senior Common Room)   |
| 1330-1530 | Breakout - Part II: Sub-group discussion and writing (6N11 or 6N03)  |
| 1530-1600 | Coffee break   |
| 1600-1630 | Breakout - Part III: Reporting from sub-groups (6N11 or 6N03)  |
| 1630-1700 | Summary of the progress and strategy by the leaders; Receiving feedbacks from members and setting plans for tomorrow (6N11)                    |
| 1700-1900 | Extended discussion at Senior Common Room (15/F, K. K. Leung Building, HKU)  |
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## **Programme - Day 4 (31 May 2018; by invitation only)**

### **Writing Workshop: How to Evaluate the Success of Eco-shoreline Projects?**

Venue: 6N11 & 6N03, Kadoorie Biological Sciences Building, HKU

**0900-1030    Introduction to the eco-shoreline trials in Hong Kong and receiving feedbacks from members (6N11)**

*By Professor Kenneth Leung and Dr Edward Lau, School of Biological Sciences and SWIMS, HKU, and representatives of Civil Engineering and Development Department, the Government of HKSAR, Hong Kong SAR, China*

1030-1100    Coffee break

1100-1200    Breakout - Part IV: Matter arising and leader's briefing; Sub-group discussion and writing (6N11 or 6N03)

1200-1330    Lunch (Senior Common Room)

1330-1500    Breakout - Part V: Sub-group discussion and writing (6N11 or 6N03)

1500-1530    Coffee break

1530-1630    Breakout – Part VI: Progress reporting and planning (6N11 or 6N03)

1630-1730    Summary of progress and plan by the leaders; receiving feedbacks from members, and setting the timeline for deliverables (6N11)

1730-1900    Extended discussion at the Senior Common Room (15/F, K. K. Leung Building, HKU)

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