

Department of Biological Sciences Faculty of Science

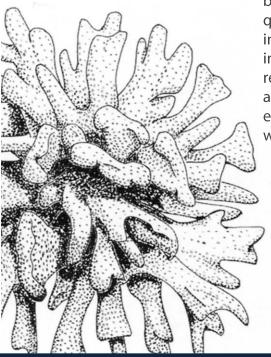
BIOLOGY COLLOQUIUM

Friday, 30 Oct 2015 | 4pm | DBS Conference Room 1

Hosted by Professor Peter Ng

Recent Advances, Current Applications, and Future Challenges in Experimental Marine Ecology





By Peter Todd

Assistant Professor, Department of Biological Sciences, NUS

In this talk I will discuss how innovative research conducted by Experimental Marine Ecology Laboratory the (EMEL) contributes towards fundamental scientific knowledge as well as informing conservation priorities. Our lab focusses on the ecology and functioning of Southeast Asian marine organisms and communities. Most of our studies fall into two major research themes: "Tropical marine invertebrate ecology" and "The effects of urbanisation on coastal ecosystems". We are curiosity-driven and multidisciplinary, synthesising elements of biology, geography and engineering to answer ecological questions. Here, I will highlight some of our recent discoveries in crab communication and camouflage, phenotypic plasticity in corals, and giant clam ecology and behaviour. I will also review our work on coastal change, population connectivity and sediment pollution. Finally, I will elucidate how ecological engineering can provide opportunities for marine conservation where coastal development is both extensive and inevitable.

