Session on South African Marine Science
2:00-4:30 p.m., 5 September 2017

Opening Sandy Thomalla - In memory of Prof Mike Lucas (10 min)

Session I
Pedro Monteiro - SOCCO as a systems programme and the SOSCEX robotics based methodology (10 min)

Luke Gregor - Is the Southern Ocean CO$_2$ sink weakening once again? (5 min)

Precious Mongwe - Diagnosing Southern Ocean air-sea CO$_2$ biases in Earth Systems Models models (5 min)

Sarah Nicholson - Why Southern Ocean storms matter to biogeochemistry? (5 min)

Marcel du Plessis - The importance of submesoscale fluxes in the Southern Ocean: insight from the multi-year SOSCEX Seaglider Expeditions (5 min)

Sarah Fawcett - Past and present ocean productivity through the lens of the nitrogen isotopes (10 min)

Warren Joubert – Sensitivity of net community productivity estimated from O2/Ar ratios to light availability within the surface mixed layer (10 min)

Coffee Break

Session II
Alakandra Roychoudhury - GEOTRACES South Africa: An overview (10 min)

Johan Viljoen - Southern Ocean phytoplankton pigments, distribution and adaptations to trace metals (5 min)

Mhlangabezi Mdutyana - A seasonal comparison of nitrogen uptake and nitrification in the South Atlantic Southern Ocean (5 min)

Jessica Burger – Winter-time rates of total, new and regenerated production in the southern Benguela upwelling system (5 min)

Ruan Parrott - Organic carbon export and phytoplankton community composition across the Agulhas System Climate Array (5 min)

Neil Malan and SAEON students - Modelling activities in the Agulhas System, from coastal interactions to source regions (10 min)
Tammy Morris - *Lagrangian evolution of Madagascar cyclonic eddies from two dedicated Argo floats experiments* (5 min)

Katye Altieri - *Nitrogen cycling in the remote marine atmosphere: Implications for biogeochemical cycling and climate* (10 min)

Ismael Kangueehi - *Sediment trace metal concentration and dissolution from known dust emitting regions in southern Africa- How southern African dust plumes are fertilizing proximal oceans* (5 min)

Isabelle Ansorge - *SEAmester-South Africa’s Class Afloat* (10 min)