



The 1st Martha T. Muse Fellows Colloquium

Beyond the Horizon – Antarctica and the Southern Ocean 2065

Many forecasters and futurists tell us that in 2065:

- the world's human population will be 8.5 billion;
- atmospheric CO₂ levels will exceed 650 ppm under a 'business as usual' scenario;
- the Arctic ocean will be ice free in August and September;
- average global temperature will be 4°C warmer than in 2000;
- ocean pH will be less than 8.2; and
- sea level will be around 26 cm higher than in 1990.

What will these dramatic changes to Planet Earth mean for the world's last great wilderness and a bellwether of global change – Antarctica and the Southern Ocean?

Colloquium Panel

Muse Prize Winners



Steven Chown
(2009)



Helen Fricker
(2010)



José Xavier
(2011)



Steve Rintoul
(2012)



Martin Siebert
(2013)

Local Experts



Gary Wilson
New Zealand
Antarctic Research
Institute



Neil Gilbert
Antarctica
New Zealand