Partnership for Observation of the Global Oceans

POGO Remit:
Build links world-wide among oceanographic institutions to promote long-term cooperation in comprehensive global ocean observations.

- Promote observations
- Improve scientific knowledge
- Interpret scientific results to policy makers
- Enhance public awareness of oceanic issues
- Provide training and technology transfer, with emphasis on developing countries.
The São Paulo Declaration From POGO-2 in 2000:

“... The Participants of POGO call upon ... to devote necessary attention to extending ocean observing systems in the Southern Hemisphere, as a minimum requirement towards implementing an integrated strategy for observing the global oceans. ...”

Led to many actions:
- The Southern Hemisphere circumpolar cruise of the JAMSTEC research vessel *Mirai* (with onboard training, primarily for oceanographers from countries visited)
- University of Concepción (Chile) used it to justify why Chile was well positioned to make valuable and unique contribution to the field
- NIOZ (the Netherlands) to justify a project for three long-term time-series stations (two in the Indian Ocean)
- AOML (NOAA, USA) to initiate a new XBT line from Cape Town to Buenos Aires
- Led to AWI declaring some of its Southern Ocean cruises POGO Cruises
- POGO Fellowship programme was initiated, in partnership with IOC & SCOR, and the POGO capacity building activities have continued to grow ever since

**Background**
- POGO-SCOR Fellowship Programme
- AMT Fellowship for training on research vessels
- University of Cape Town Bursary for Graduate Studies
- University of Concepción Austral Summer Institute
- POGO Visiting Professorships
- NF-POGO Centre of excellence at AWI (successor to BIOS)
- Regional training programme (Part of AWI CofE programme)
- NF-POGO Alumni Network for Oceans (NANO)
POGO-SCOR Fellowship Programme
(Initially: POGO-IOC-SCOR Fellowship Programme)

- Supports young scientists from developing countries to visit to oceanographic laboratories for training for a period of 1 to 3 months.
- Funding support from SCOR (and from IOC, until 2005).
- Between 9 and 15 Fellowships awarded every year since 2001 (total ~150).
- Programme in high demand (many more applications than we have funds for).
- Uniformly enthusiastic feedback.
- 13th Year of the programme; 9 fellowships were awarded, from Argentina, Brazil, China, Croatia, India, Nigeria, Russia and Tanzania
- This year’s host institutions included Germany (GEOMAR-1), France (LOCEAN-1), UK (Plymouth Marine Laboratory-4, University of East Anglia-1), USA (University of Maryland-1 and University of South Florida-1).

POGO-AMT Fellowship Programme

Since 2008, supports participation of one trainee from a developing country in the Atlantic Meridional Transect (AMT) cruises from the UK to the Southern Ocean.
Initiated jointly with SCOR; now being continued as a POGO Programme.

The 2013 AMT Fellow was Ms Ankita Misra from National Institute of Oceanography (NIO), Goa, India

Aims:
- For Fellow to transfer new knowledge and skills acquired during the fellowship to the home institution;
- To set up a prolonged collaboration between the host and home institutions.

Programme provides for participation in cruise preparation (one month), in the cruise itself, and in post-cruise data analysis and interpretation (up to 2 months).
Two POGO-PAP-GreenSeas fellowships were offered in 2013, with supporting funds from the Porcupine Abyssal Plain Project and the GreenSeas Project, enabling early-stage scientists to participate in the Porcupine Abyssal Plain cruise with training before and after the cruise at participating oceanographic institutes.

Bellineth Valencia Ramirez (Columbia), Supervisor (Parent Institution): Dr Alan Giraldo and Supervisor (Host Institute): Dr. Marja Koski, Denmark
Training on “Copepods grazing and pellet production: are there changes in particle production according to the sexual condition and vertical distribution?”

Veli Caglar Yumruktepe (Turkey): Supervisor (Parent Institution): Dr Baris Salihoglu, Supervisor (Host Institution): Dr Richard Lampitt, NOCS, UK
Training on “Model-Data Integration of Key Nitrogen Cycle Processes”

One of the selection criteria for fellowships is that it is seen to be beneficial to both parent and host institutes.

Host Institutes of Fellows who are POGO members: 70 cases

<table>
<thead>
<tr>
<th>POGO Member</th>
<th>Fellows</th>
<th>POGO Member</th>
<th>Fellows</th>
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<tr>
<td>Plymouth Marine Lab, UK</td>
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<td>DFO, Canada</td>
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<td>JAMSTEC, Japan</td>
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<td>Bigelow Laboratory, USA</td>
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<td>CSIRO, Australia</td>
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<td>Dalhousie University, Canada</td>
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<td>NOAA, USA</td>
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<td>GEOMAR, Germany</td>
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<td>BIOS, Bermuda</td>
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<tr>
<td>University of Hawaii, USA</td>
<td>3</td>
<td>British Antarctic Survey, UK</td>
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<td>IFREMER, France</td>
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<td>CNRS, France</td>
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<td>Scripps Institute, USA</td>
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<tr>
<td>AWI, Germany</td>
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<td>University of São Paulo, Brazil</td>
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POGO-SCOR Fellowship Programme
How are the members benefitting?

Parent Institutes of Fellows who are POGO members: 38 cases

<table>
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<th>POGO Member</th>
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<tr>
<td>Univer.Concepción</td>
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<td>UCT, S. Africa</td>
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<td>P. P. Shirshov Inst., Russia</td>
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<td>Universidade de São Paulo</td>
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<td>First Inst, China</td>
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<td>IOCAS, China</td>
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<tr>
<td>INCOIS, India</td>
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POGO Visiting Professorship Programme

Provides for a senior scientist to visit a developing country to conduct training in ocean observations.

2013:
Host: Hans Verheyne, Oceans Research Department of Environmental Affairs, Cape Town, South Africa
Visiting Professor: Declan Schroeder, Marine Biological Association, Plymouth, UK
Topic: Molecular mining of the Continuous Plankton Recorder
Leverage: Additional funding from SCOR, in particular to facilitate the participation of students from neighbouring countries;
Recipient of the training: were from South Africa, Madagascar, Tanzania and Namibia
University of Cape Town: POGO Bursary

- Provides bursary for an African student (from outside South Africa) to undertake graduate programme at UCT.
- Started in 2008.
- Recipient for 2011-2012: Chevane Clousa from Mozambique completed her programme in June 2012.
- Recipient for 2013: Etwarysing Lekra, Mauritius.
- Seen as a vehicle for African countries to benefit from oceanographic expertise in South Africa and to develop UCT as a regional centre of excellence in oceanography.

Chevane Clousa

Universidad de Concepción Austral Summer Institute

Austral Summer Institute is an initiative of the Universidad de Concepción, with international collaboration and funding support from various sources (including a UNESCO Chair).

- Organized as a series of short, intensive courses on various topics in ocean sciences.
- Invited lecturers of international repute from around the world.
- The program was designed primarily for the benefit of students from Chile.

In 2013 POGO support allowed participation of 16 students from Chile and neighbouring countries (Argentina-3, Brazil-3, Chile-3, Cuba, Peru, Uruguay-4, Cuba) in the ASI Programme.

Modest contribution, high impact.
Issues for discussion

• We need to set priorities and budget for 2013. (Note: Fellowship opportunity advertised, SCOR funds committed)

• Could members help advertise the programmes more, and could we encourage them to participate more?

• Would other members like to volunteer on-board training opportunities to extend the AMT special Fellowships?

• What is needed to improve regional balance in fellowships? Why don’t we get more applications for the fellowships from African countries?

• Former Fellows: Where are they now? How do we nurture deserving cases? Should we have a POGO Alumni network along the lines of NANO (see Sophie’s presentation)?