POGO Capacity Building Report

December 2014

Capacity building is a major part of the POGO agenda and POGO is widely respected for its contributions to global capacity building.

In 2014, POGO delivered a suite of capacity-building programmes that provided advanced training in ocean observations, especially for personnel from developing countries and economies in transition. It comprised:

- The POGO-SCOR Fellowship Programme, under which scientists from developing countries can spend up to three months training in a major oceanographic institution. POGO awards in the region of ten of these fellowships each year. To date, more than 150 young scientists have been trained under this scheme - see the full report in the Background Documents.
- The POGO Visiting Professor Programme under which one senior scientist visits a developing country to conduct training in ocean observations - see information below and full report in the Background Documents.
- The POGO-AMT Fellowship Programme, under which one scientist annually participates in a major oceanographic cruise (the AMT cruise), and spends time at a participating major oceanographic institute before and after the cruise to experience cruise preparation and data analysis. In 2014, this programme was over-subscribed by a factor of twenty – see information below.
- The POGO-UCT Bursary Programme under which one African graduate student, annually, is supported to study at the University of Cape Town, South Africa – see information below and full report in the Background Documents.
- Travel support for participants from developing countries attending Austral Summer Institute (ASI) courses at the University of Concepcion, Chile. In the 2013-2014 ASI, 15 scholars were sponsored by POGO enabling them to attend the training – see report in the Ancillary Documents.
- The Nippon Foundation-POGO Centre of Excellence in Ocean Observations at the Alfred Wegener Institute – see report in the Background Documents.

Together, this suite of training programmes is making a very significant contribution to reducing the deficit in trained observers of the ocean in developing countries. Under POGO capacity-building schemes, over 600 young scientists from about 70 countries have received advanced training. The massive over-subscription for POGO training schemes provides ample proof that the effort is responding to a genuine demand. Feedback from both host supervisors and the trainees themselves is highly positive.
POGO-SCOR Visiting Fellowships 2014

Out of 48 applications received, nine POGO-SCOR Visiting Fellowships were awarded for 2014, although one was cancelled due to the candidate (India) being unable to obtain travel permission from his institute and another was cancelled due to the candidate (Iran) being unable to obtain her visa. One of the fellowships (Mozambique) has not yet taken place, due to delays in obtaining the visa, but is due to commence in early 2015. The successful applicants were selected on the basis of the quality of their application, relevance of the proposed training to POGO and SCOR, and demonstration that it would lead to sustained capacity building at the parent institute. The selection committee also had to strive to achieve regional balance in the final selection. The host and parent institutes/countries of the awardees are summarised in the table below.

<table>
<thead>
<tr>
<th>Fellow</th>
<th>Parent institute</th>
<th>Host institute</th>
<th>Subject of Study</th>
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</thead>
<tbody>
<tr>
<td>Georgina Daniela Cepeda</td>
<td>National Institute for Fisheries Research &amp; Development (INIDEP) Argentina</td>
<td>University of Hawaii at Manoa, USA</td>
<td>Metagenetic methods for time series monitoring of zooplankton biodiversity in the Argentine Sea</td>
</tr>
<tr>
<td>Sunita Pandei</td>
<td>National Institute of Oceanography, Goa, India</td>
<td>Institut de Ciencies del Mar (ICM-CSIC), Barcelona, Spain</td>
<td>How to organize, maintain and get the most from a Fixed-Point Time-Series Coastal Observatory for marine microbial ecology and biogeochemistry, with emphasis on the contribution and potentialities of single cell biogeochemistry techniques</td>
</tr>
<tr>
<td>Issufo Halo</td>
<td>University of Cape Town, South Africa</td>
<td>Nansen Environmental and remote sensing center, Norway</td>
<td>Modelling the mesoscale ocean circulation in the southwest Indian Ocean</td>
</tr>
<tr>
<td>Lilian Anne Krug</td>
<td>University of Algarve, Portugal</td>
<td>Plymouth Marine Laboratory, UK</td>
<td>Delineation of biogeochemical provinces in SW Iberia</td>
</tr>
</tbody>
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POGO Visiting Professorships 2014

This year’s Visiting Professorship programme was held at the Center for Marine Studies, Federal University of Parana, Brazil, from 19th October to 3rd November. The visiting professor was Renzo Mosetti from OGS, Trieste, Italy. The course was organized in lectures, practical activities, mainly processing observational data, including a field trip to the Paranaguá Bay for doing observation of currents with electromagnetic and acoustic devices, and water properties with CTD. Students learnt about efficient and innovative monitoring systems based on: fixed stations, meteo-oceanographic buoys, satellite and airborne remote sensing data, drifters and coastal HF radars. Analyses included case studies from the Gulf of Trieste (ITALY) where an integrated monitoring system is active. The funding from POGO (5K GBP) was used to leverage local/regional funds that allowed participants to travel from different parts of Brazil as well as Argentina, Columbia, Peru and Uruguay. A total of 49 “official” participants attended the course, as well as a number of local students who attended certain parts of the course that were relevant to their studies. The course was such a success that the host is planning to repeat it again next year.
POGO-AMT Fellowship 2014

The report from POGO-AMT Fellowship from 2013 was not included in time for POGO-15, therefore a full report from Ms. Ankita Misra can be found in the background documents. This year’s POGO-AMT fellow was Dr. Rafael Rasse from Instituto Venezolano de Investigaciones Cientificas (IVIC), Venezuela. He was working with Dr. Giorgio Dall’Olmo, from Plymouth Marine Laboratory (PML), investigating empirical relationships between particulate organic carbon concentrations and inherent optical properties across biogeographical provinces of the Atlantic Ocean. Rafael arrived at PML in mid-August to receive training prior to the cruise, then embarked on RRS James Clark Ross on 21st September with the rest of the AMT scientific party. The cruise started in Immingham (UK) and arrived in the Falklands in early November. Rafael then returned to the UK to spend a further 4 weeks at PML carrying out some post-cruise analyses.

POGO-UCT Bursary

The 2014 bursary was awarded to a Ghanaian student, Tsei Senam to support him during his Masters in Applied Marine Science at the University of Cape Town (see report in Background Documents).