



REPORT ON POGO VISITING FELLOWSHIP PROGRAMME 2011

Report from the Visiting Professorship Host

Name of Visiting Professor: Prof. Dr. Walker O. Smith

Name of Host: Ass. Prof. Nguyen Ngoc Lam

Host institution: Institute of Oceanography, Nha Trang, Viet Nam

Dates of Training: March 2012

Subject of Training: fluorescence and its use in oceanography

Please provide a brief description of activities undertaken during the visiting professorship period. Please include elements of formal training (e.g. lectures, practicals and field trips) as well as research collaboration, if applicable

The course was organised base on three main parts: 1) Literature studies by the students; 2) Lecturing and practicals (including fieldtrip); and 3) reporting by the students. The students were from different background so they were provided with several literatures on fluorescence. The lectures and pratical works were given one after another so that students were able to practice right after the lecture. The 10AU™ Field and Laboratory Fluorometer (Tunerdesins; provided by Mr. Tong Phuoc Hoang Son, a coodinator of a prior POGO project at ION) and a dual-beam Labomed spectrophotometer were used during the practical works. On the field trip, a CTD system (Seabird 19Plus V2) equipped with PAR, OBS, pH, and fluorescent (WETLab) sensors was used at 3 different stations in a transect from river mouth to Nha Trang Bay. Water samples from stations were collected for lab works at different depths. Student were grouped into smaller teams and learnt to retrieve and processing data from CTD, and processing of water samples. Reports and oral porentations were made by student teams.

How do you think the training was received by the students? Did it meet its objectives? What do you think the students gained from the training? What was the impact of the training on your institute? How did the visiting professorship benefit you personally? If a course feedback questionnaire was distributed to the students at the end of the course, please provide a summary of the feedback provided

The training was successful in terms of organisation and student understanding/knowledge gains although one or two students seemed to be struggling a bit with the language. However, the course structure was alternative between lectures and lab practicals and there were good interaction among the students so they all achieved understanding of the main topics. The topics were mainly in fluorescence of chlorophyll, active fluorescence, fluorescence from space, and fluorescence in other applications that ranged from chemical procedures to applications in flow cytometry, which provide student fully understanding about application of fluorescence in marine research. The course is useful since it covers from essential of fluorescence to several modern applications as well as procedures of standard laboratory works. The students were from different background (graduated to PhD students) and Institutions so their gained knowledge from the course will be benefit for their own career and/or research at their institutions.

Do you envisage that any future collaborations (e.g. publications, proposals, future visits, student exchanges) will result from this visit? Please provide details

Few ideas were immerged during this course that may be submitted for possible future courses such as:

- Sampling and handling samples in ocean research
- Ocean data processing and handling
- Monitoring network

Please provide a break-down of the expenses incurred by the training (those covered by the POGO grant and those covered by your institute) [Note: original receipts should be sent by post for the expenditure covered by POGO]

A break-down of the expenses covered by the POGO grant:

Provided by Institute of Oceanography (ca. xxxxxxxx USD, in kind)

- Lecturing hall (50 m²) equipped with air conditioner and projector
- Lab space (wetlab, drylab, and a walk-in culture room)
- The use of Labwares and Equipment (CTD, spectrophotometer, culture cabinet, centrifuge, deep freezer, filtering system, ...)
- Working hours of Dr. Doan Nhu Hai (ca. 40 hours), Dr. Nguyen Ngoc Lam (ca. 80 hours), administrative assistant (ca. 100 hours), and technicians from Department of Plankton (ca. 50 hours)

Please provide a list of students who attended the course, along with their full contact information, including their e-mail addresses

1. Mr. Nguyen Chi Thoi
2. Mr. Phan Tan Luom
3. Mr. Nguyen Tam Vinh
4. Ms. Tran thi Hue
5. Mr. Truong Si Hai Trinh
6. Mr. Luong Quang Doc
7. Ms. Sandra Nadja Schmidt
8. Ms. Trinh Thi Cẩm Tú
9. Mr. Hồ Văn Thệ

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Please return completed form by e-mail to: pogoadmin@pml.ac.uk

IMPORTANT: Please also mail the required receipts to:

POGO Secretariat
Plymouth Marine Laboratory
Prospect Place, The Hoe
Plymouth PL1 3DH
UNITED KINGDOM