



EXPERT'S PROFILE

Name of Grantee : **KELVIN S. RODOLFO, PhD**
Area of Expertise : Geological Sciences
Inclusive Date of Contract as BSP Awardee : Short-Term Program
03 January - 14 March 2013
Host Institution : National Institute of Geological Sciences
University of the Philippines
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EDUCATIONAL BACKGROUND

PhD in Geological Sciences, University of Southern California, 1967
MS in Geological Sciences, University of Southern California, 1964
BS in Geology, University of the Philippines, 1958

PROFESSIONAL EXPERIENCE

Professor Emeritus
Department of Earth and Environmental Sciences
University of Illinois, Chicago

Adjunct Professor
National Institute of Geological Sciences
University of the Philippines
Diliman, Quezon City

Worked for two years as a **petroleum exploration geologist** in Luzon, Cebu and Mindanao;

Involved in deep-sea scientific drilling in 1970s and studied the lahars of Mayon Volcano in 1980s;

Led the multi-agency effort to study the lahars of Mt. Pinatubo in 1990s

TO BE ACCOMPLISHED AS BS AWARDEE :

- a) PSINSAR survey on the KAMANAVA subsidence;
- b) Complete research project proposal with PCASTRD for Permanent Scatterer Interferometry and Light Detection and Ranging (LIDAR) to measure ground subsidence in KAMANAVA in two (2) decades;
- c) Forensic Analysis of the disastrous 29 November 2006 Mayon lahars: Eastern and Southern sides of Mayon have been done, and for this segment, the northern and western sides will be completed
- d) Collaboration with Manila Observatory and Ateneo de Naga on the project entitled "Risk mapping towards saving lives in Bicol"; and
- e) FLO2D modeling of the 2006 Mayon lahars to support the observation of overtopping and breaching of dikes during the 2006 November event to be submitted in an ISI journal