

## EXPERT'S PROFILE



**Name of Grantee** : **DR. KELVIN S. RODOLFO**

**Area of Expertise** : Geological Sciences

**Inclusive Date of Contract as BSP Awardee** : January-February 2008 (Short-Term Expert)

**Host Institution** : UP-NIGS

**Contact Numbers** : 0918-4640066

**E-mail Address** : krodolfo@uic.edu

### EDUCATIONAL BACKGROUND

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

### WORK EXPERIENCE

- **Current**           **Professor Emeritus**  
Department of Earth and Environmental Sciences  
University of Illinois, Chicago, USA
- **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 1970's and studied the lahars of Mayon Volcano in 1980's.
- Led the multi-agency effort to study the lahars of Mt. Pinatubo in 1990's.

### To be accomplished as BSP Awardee:

- Study Forensics of Lethal 2006 Mayon lahars, and mitigation of future flows;
- Revise and develop the Philippine Edition of book "General Science for Environmental Earth Science";
- Continue analysis of land subsidence and related flooding and tidal incursion in Central Luzon and coastal Metro Manila; and
- Teach Geo 297 course on climate change and its Philippine implications.
- PSINSAR survey on the KAMANAVA subsidence
- Complete research project proposal with PCASTRD for Permanent Scatterer Interferometry and Light Detection and Ranging (LIDAR) to measure ground subsidence in Kamanava over 2 decades
- 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
- Collaboration with Manila Observatory and Ateneo de Naga on the project entitled "Risk mapping towards saving lives in Bicol"
- 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