

EXPERT'S PROFILE

Name of Grantee : ARNOLD A. LUBGUBAN, PhD
Area of Expertise : Chemical Engineering
Inclusive Dates of Contract : Short-Term Program
as BSP Awardee 24 March – June 2014 (82 days)
Host Institution : Ateneo de Manila University
Mindanao State University – Iligan Institute of Technology
DOST-ITDI
Chemrez Technologies

EDUCATIONAL BACKGROUND

PhD in Chemical Engineering, University of Missouri, May 2009
MS in Chemical Engineering, University of Missouri, July 2005
BS in Chemical Engineering, University of the Philippines, April 1999

PROFESSIONAL EXPERIENCE

2013 – present **On Sabbatical**

2011 – 13 **Radiochemist**

Precision Nuclear, LLC
Gray, TN

2010 – 11 **Academic Researcher**

2006 – 09 **Research Assistant** (funded by the United Soybean Board)

2004 – 06 **Research Assistant** (funded by the SRC-CAIST, NIH)

University of Missouri
Columbia, MO

2009 – 10 **Postdoctoral Research Associate**

The Ohio State University
Wooster, OH

2003 **Technical Services Analyst**

Pilmico Foods Corporation
Philippines

2001 **Undergraduate Teaching**

School of Engineering
Colegio de San Juan de Letran
Philippines

TO BE ACCOMPLISHED AS BS AWARDEE :

AdMU / Chemrez Technologies

1. Perform experiment on water-blown polyurethane foam formulation for insulation sheets and product characterization for physical and thermal properties;
2. Conduct workshops on:
 - a. Data analysis and discussion about the physical phenomenon observed during a sample polymer extractability experiment;
 - b. Polyurethane chemistry and applications, foams fundamentals, preparation and safety, evaluation and testing;
 - c. Trends of renewable materials alternatives to fossil fuels in polyurethane production, synthesis and testing, and experiments

MSU-IIT

1. Conduct workshop on data analysis and discussion about the physical phenomena observed during a sample polymer extractability experiment; and
2. Mentor MS students under the DOST-ASTHRDP scholarship on the experiment and processing of polyurethane to encourage them to pursue careers in renewable industrial polymers

DOST-ITDI

1. Review ITDI's ongoing project on polyurethane and provide expert insight on what can be done further; and
2. Provide technical advice on polyurethane materials processing and testing vis-à-vis ITDI's current and related practice/activities