

EXPERT'S PROFILE



Name of Grantee : **GONZALO C. SERAFICA, Ph.D.**
Area of Expertise : Biocellulose technology
Inclusive Date of Contract as BSP Awardee : Long-Term Program
August 2013 – August 2015 (2 years)
Host Institution : Department of Mining, Metallurgical and Materials Engineering (DMMME)- University of the Philippines, Diliman
Contact Number : 0921-345-8726, 02-0721-5703
E-mail Address : alserafica@hotmail.com

EDUCATIONAL BACKGROUND

- **PhD in Chemical Engineering**, 1997, Rensselaer Polytechnic Institute, Troy, New York
- **MS in Chemical Engineering**, 1992, Rensselaer Polytechnic Institute, Troy, New York
- **BS Chemical Engineering** , 1988, Saint Louis University, Baguio City, Philippines

WORK EXPERIENCES

- 2012 – Present **Philippine Education and Research Institutions, CHED, DOST and PBEd**
Independent Consultant
- 2007 – 2012 **Xylos Corporation, Langhorne, PA**
Vice President for Intellectual Property and Technology
- 1996 – 2007 **Xylos Corporation, Langhorne, PA**
Co-founder and Vice President for Research and Development
- 1994 – 1996 **Rensselaer Polytechnic Institute, Troy, New York**
Research Associate
- 1993-1994 **Amicon Incorporated, Beverly, MA, USA**
Process Development Engineer
- 1990-1992 **Rensselaer Polytechnic Institute, Troy, New York**
Process Development Engineer
- 1989-1990 **Johnson& Johnson Inc., Philippines**
Quality Assurance Engineer

TO BE ACCOMPLISH AS A BALIK SCIENTIST

1. Design an implantable, biodegradable, hemostatic, aerogel medical device made from a nanocomposite of a microbial cellulose and chitosan that can be used for deep wounds.
2. Formulate a topical, skin-like, antimicrobial wounds-burns-diabetes-care product made from microbial cellulose and coconut-derived bioactive compound.
3. Advise Marine Science Institute (MSI) of UP Diliman about the use of antimicrobial and other bioactive marine compounds, in vitro biocompatibility and efficacy assays, and for subsequent animal and clinical trials for the two products described above.
4. Deliver lectures on different courses for the Department of Mining, Metallurgical and Materials Engineering (DMMME).
5. In coordination with Office of the Vice President for Academic Affairs (OVPA) and Office of the Vice President for Development Communication (OVDC), UP System, will be involved in:
 - The conduct of an inventory of Philippine-based R&D activities
 - Selection of candidate technologies for patent development and technology commercialization
 - Formulation of product development plan for each candidate technology and implement/conduct activities
 - Negotiation for a license to private companies
 - Preparation of a report on commercialization activities/ experience to scientific/ business/ government entities
 - Submission of product plans for funding