

## EXPERT'S PROFILE

**Name of Grantee** : **SERGIO C. CAPAREDA**  
**Area of Expertise** : Renewable Energy, Biofuels, Thermal Conversions  
**Inclusive Date of Contract as BSP Awardee** : Short-Term Program  
12 June – 17 July 2011  
**Host Institution** : Mariano Marcos State University  
**Email Address** : [scapareda@tamu.edu](mailto:scapareda@tamu.edu)

## EDUCATIONAL BACKGROUND

**PhD in Agricultural Engineering**, Texas A&M University, USA, 1990  
**Masters in Engineering**, Asian Institute of Technology, Bangkok, Thailand, 1985  
**BS in Agricultural Engineering**, University of the Philippines Los Baños, 1982

## PROFESSIONAL EXPERIENCE

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|---------------|---|
| 2011- present | <b>Associate Professor</b><br>Texas A&M University                    |
| 2005 – 10     | <b>Assistant Professor</b><br>Texas A&M University                    |
| 2003 – 05     | <b>Visiting Research Scientist</b><br>Texas A&M University            |
| 1997 – 2003   | <b>Associate Professor</b><br>University of the Philippines Los Baños |
| 1990 – 97     | <b>Assistant Professor</b><br>University of the Philippines Los Baños |
| 1983 – 90     | <b>Instructor</b><br>University of the Philippines Los Baños          |

## TO BE ACCOMPLISHED AS BS AWARDEE:

- Strategic engineering research and development plan with emphasis of energy technologies and environment
- Concept design of a pilot-scale bio-ethanol distillery
- Concept design of a biomass gasification system for electricity generation
- Design of engineering laboratories
- Trained faculty and researchers in energy technologies and environment
- Project proposal for submission to donors
- Lecture series and seminars in energy technologies and environment

## Areas of Research:

Renewable energy conversions (solar and wind energy), pyrolysis and gasification, bio-ethanol, bio-diesel and biogas research, machinery design and development, and environmental management and air quality