

# **Jeannete Santos, Ph. D.**

## **Professor**

Ph.D. Louisiana State University

Office S-

Mayagüez, PR 00680

(787) 832-4040, Ext.

E-Mail: [jsantos@uprm.edu](mailto:jsantos@uprm.edu)

## **Professional Experience**

- 2006 Professor, University of Puerto Rico, General Engineering Department
- 2005- Present Chairperson of General Engineering Department
- 2004 Acting chairperson of General Engineering Department
- 2001- Associate Professor, University of Puerto Rico, General Engineering Department, Mayagüez, Puerto Rico.
- 1996 Assistant Professor, same as above
- 1987 - 1991 Instructor, University of Puerto Rico, Department of Physics and Chemistry, Arecibo, Puerto Rico.
- 1987 Process Engineer, The Upjohn Manufactory Company, Barceloneta, Puerto Rico. Technical support for the preparation of clindamicine phosphate process.
- 1985 - 1986 Instructor, University of Puerto Rico, Department of Physics and Chemistry, Arecibo, Puerto Rico.
- 1984 Lecturer, University of Puerto Rico, Chemical Engineering Department, Mayagüez, Puerto Rico. Service Contract.
- 1983 Lecturer, Interamerican University, Department of Natural Science, Aguadilla, Puerto Rico. Part time contract.

## **Professional Preparation**

- Louisiana State University – Baton Rouge Chemical Engineering Ph.D., 1995
- University of Wisconsin – Madison Chemical Engineering M.S., 1982
- University of Puerto Rico, Mayagüez Chemical Engineering B.Sc., 1980

## **Selected Publications and Presentations**

- J. Santos, S. Pedraza, E. Marrero, O. M. Suárez, “Exposing High School Students to Materials Science and Engineering Concepts,” 9th International Conference on Engineering Education, San Juan, Puerto Rico, July 2006.
- O. M. Suárez, J. Santos, W. C. Crone and G. M. Zenner, “Development and Optimization of Instruction Modules for High School Teachers on Materials Science and Engineering Education,” 9th International Conference on Engineering Education, San Juan, Puerto Rico, July 2006
- I. Couvertier, J. Santos "Using Technology to Increase Students Participation in the Learning Process”, Fourth LACCEI International Latin American and Caribbean Conference for Engineering and Technology, Mayagüez, Puerto Rico, June 2006.

- J. Santos, W. Crone, G. M. Zenner, O. M. Suárez, “Educational Modules for High School Teachers on Materials,” Fourth LACCEI International Latin American and Caribbean Conference for Engineering and Technology, Mayagüez, Puerto Rico, June 2006.
- F. A. Acosta, J. Santos, O. M. Suárez, M. Pando, “Raising Awareness on Materials Recycling using Undergraduate Engineering Research,” International Journal of Environment and Pollution, (2005) [accepted]
- Acosta, F. J. and J. Santos, “Research Experience for Undergraduate Students and the use of Recycled Polymers and Rubbers in Concrete” Second LACCEI International Latin American and Caribbean Conference for Engineering and Technology (LACCEI’2004) “Challenges and Opportunities for Engineering Education, Research, and Development”. 2-4 June 2004, Miami, Florida, USA
- Bartolomei-Suarez, Sonia M., Cesani-Vázquez, Viviana I., Irizarry, María A., Santos, Jeannette, and Toledo-Faria, Freya M., A Survey: an Initial Step toward the Improvement of the Recruitment and Retention Processes of Engineering Female Professors at the UPR-Mayagüez, presented in the 12th International Conference of Women Engineers and Scientists” (ICWES12), Canada, 2002.

### **Synergistic Activities**

- The Academic Excellence Program was implemented and kept for five years. Freshman engineering students led by a mentor student formed supporting teams.
- Undergraduate research of substituting one of the aggregates of concrete for a polymer.
- By using the classroom performance system tool, a project seeks to improve the learning experience of the fundamental computer programming concepts in the Algorithms and Computer Programming course offered to all Engineering students during their sophomore year.
- Education Coordinator for a Cooperative Agreement with NOAA/NWS
- Liaison of LSAMP during 2002 – 2003, 2005-present, Member of Task force 10 – Related Educational Activities for the preparation of Middle State evaluation.
- Coordinator of the Outreach and Education Office for the PREM proposal.

### **Collaborators & Other Affiliations**

- **Collaborators**
  1. Prof. Oscar Marcelo Suarez
  2. Prof. Oscar Perales-Perez
  3. Prof. Isidoro Couvetier

### **Awards and Honors**

- Distinguished Professor of the General Engineering Department, UPRM, 2005-2006
- Dean Fellowship Scholar Louisiana State University 1991-1993