

Barbara O. Calcagno.

Professor

PhD, Materials Science, University of Wisconsin-Madison 2010

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Professional Experience

- Research Assistant, Materials Science Program, University of Wisconsin, Madison, WI, September 2005 to present.
- Full Professor, July 2001 to present.
- Associate Professor, General Engineering Department, University of Puerto Rico, Mayaguez, PR, July 1995 - July 2001.
- Assistant Professor, General Engineering Department, University of Puerto Rico, Mayaguez, PR. July 1990 - July 1995.
- Consultant for the Puerto Rico Highway and Transportation Authority. February 1992 - August 2005.
- Instructor, General Engineering Department, University of Puerto Rico, Mayaguez, PR. November 1985 - June 1990.
- Head of Software Group at the Computer Center, Universidad de Concepción, Chile. March 1985 - July 1985.
- Analyst Engineering, Computer Center, Universidad de Concepción, Chile. September 1983 - February 1985.
- Research Assistant. Chemical Engineering Department, University of Pennsylvania, Philadelphia, PA. 1979-1981.
- Teaching Assistant. Chemical Engineering Department, University of Pennsylvania, Philadelphia, PA. Fall 1979.
- Instructor. Chemical Engineering Department, Universidad Simón Bolívar, Caracas, Venezuela. 1977-1979.
- Professional Training. Process Engineer, AMUAY Refinery, LAGOVEN, Venezuela. July - December 1976.
- Summer Job. Process Engineer, AMUAY Refinery, LAGOVEN, Venezuela, 1975.

Professional Affiliations

- AICHE: American Institute of Chemical Engineer.
- SIGMA XI: The Scientific Research Society.
- SWE: The Society of Women Engineers.
- ADK: ALPHA DELTA KAPPA, International Honorary Sorority For Women Educators.
- SHPE: Society of Hispanic Professional Engineers

Professional Preparation

- Ph.D., Materials Science Program, University of Wisconsin, Madison, WI. Expected graduation: June 2010.
- Master of Science Degree in Chemical and Biochemical Engineering. University of Pennsylvania, School of Engineering and Applied Science. December, 1981.
- Chemical Engineering Diploma. Universidad Simón Bolívar, Venezuela. July 1977.

Selected Publications and Preparations

- "Women in Engineering at the University of Puerto Rico-Mayagüez: A Proposed Study" Paper presented at the 1994 Annual Conference of the Society of Women Engineers, Pittsburgh, June 1994.
- "SIMA: A Materials Information System for the Puerto Rico Highway and Transportation Authority". Paper presented at the 1993 Annual Convention of the Society of Women Engineers. Chicago, June 1993.
- "SIMA, An Information System for the Materials Testing Office", B. Calcagno and M. T. Jiménez. Progress Report for the Materials Testing Office, Puerto Rico Highway Authority and the Engineering Research Center, University of Puerto Rico. November 1990.
- "SIPRES, Information System for the Prediction of Physical and Thermodynamic Properties for Process Simulation". Reports # DC-M-SA-012 and DC-M-SA-11.A1. Information system developed for the Chemical Engineering Department at the Universidad de Concepción. December 1984.
- "SURGEN, Information System for the Analysis of Surgen Indexes in the Pacific Coast". Report # DC-M-SA-001a, Universidad de Concepción. October 1983.
- "Competition Between Two Microbial Populations in a Nonmixed Environment: Effect of Cell Random Motility", D. Lauffenburger and B. Calcagno, Biotech. Bioeng. 25,2103 (1983).
- M. Sc. Thesis: "Mathematical Model for the Competition of Two Microbial Populations in Non-Mixed System". University of Pennsylvania. 1981.
- Engineering Diploma Project: "Design of a Naphtha Plant". Universidad Simón Bolívar, Caracas, Venezuela. 1977.

Synergistic Activities

- Member of the Personnel committee, August 2003 - August 2005.
- Member of the Academic Senate of the University of Puerto Rico,
- Mayaguez Campus, representing the Engineering Faculty, March 2001.
- Member of the Board of Discipline of the University of Puerto Rico, Mayaguez Campus, August 2003 - August 2004.
- Co-Chair of the 2003 SWE Student Regional Conference held at UPR Mayaguez, PR , March 2003.
- Faculty Advisor for the PR SWE Student Section, 1996 – 2005.
- Member of the following committees: Library, Planning and Development, Materials Science, Fluid Mechanics, and Computer and Numerical Methods.

- Technical Paper Coordinator for the SWE National Convention held in San Juan, Puerto Rico in June 1988.
- Treasurer of the Sigma Xi Mayaguez Club, July 1990 - June 1991.\
- Organization of the workshop "Careers in Science and Engineering for High School Students" offered by the Sigma Xi Mayaguez Club on October 27, 1990.
- Member of the Academic Committee of SESO. (1987-1988) Judge for the Science Fairs at SESO, SouthWestern Educational Society, Mayaguez.
- Participation in the following Department committees: Computer Sciences, Material Sciences, Applied Mechanics and in the committee for the creation of the Master Program in Applied Mechanics and Material Sciences.
- Participation in the following Faculty committees: Students Affairs and Graduate Studies.