

## LUENY MORELL

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Lueny Morell holds a BSChE (magna cum laude) from the University of Puerto Rico (1974) and a MSChE (1977) from Stanford University. She is a full professor of the Chemical Engineering (ChE) Department of the University of Puerto Rico at Mayagüez (UPRM) with research and development interests in both scientific and higher education areas. These include sludge management, composting, teaching methodologies, curriculum development and outcomes assessment. She is currently Director of UPRM's Research & Development Center, managing \$36M in research funds and overseeing the Campus strategic alliances such as the PR TechnoEconomic Corridor and the Technology Incubator. During the last two years she has been Special Assistant to the Chancellor and the Dean of Engineering in charge of strategic alliances, new educational initiatives and outcomes assessment, including coordinating the ABET 2000 accreditation responsibilities. Previous to that position, she was part of the staff of the Vice President of the University of Puerto Rico System, coordinating the implementation of a UPR system-wide institutional research function, and Director of the **Curriculum Innovation Center** of the Puerto Rico Alliance for Minority Participation (PR-AMP) Project, an NSF sponsored multi-institutional project focused on increasing the number and quality of minority students graduating from Science, Math and Engineering programs in Puerto Rico. Lueny is also Project Director for the **NSF-sponsored grant The Learning Factor Workshops, Implementing ABET 2000** (\$272,000/2 years), Principal Investigator in charge of the **NASA-sponsored project the Partnership for Spatial and Computational Research** (\$2.9M/5years), an interdisciplinary remote sensing and GIS undergraduate curriculum/research option project and research, and assessment coordinator for the **NSF-sponsored PRECISE** project (\$3.5M/5 years), a program to enhance CISE graduate programs at UPRM. During 1994-97 Lueny was UPRM task leader for the Manufacturing Engineering Education Partnership (MEEP), a multi-institutional, multi-task project sponsored by the Technology Reinvestment Program, in which she lead curriculum development initiatives and overall project outcomes assessment tasks. From January 1995 to August 1997 she was Special Assistant to the Chancellor for Academic Affairs, coordinating academic and research activities pertaining to the Office of the Chancellor. From 1990 through 1995, Lueny was Campus coordinator for Curriculum Assessment, a major task of PR-AMP. She has held various academic and administrative positions on Campus, among them, Assistant Dean of Engineering for Administrative Affairs of Engineering (1987), Director, Technical Information Center (1981-1984), and elected member of the Academic Senate (1984-1989) and Campus Administrative Board (1985-1986). From 1985 through 1990, she represented Puerto Rico in the UPADI (Pan American Union of Engineering Societies) Engineering Education Committee. A licensed professional engineer, Lueny has done professional consulting work in sludge composting, plastics and teaching methodologies/curriculum development and is a member of various professional and honor societies, among them Tau Beta Pi, Phi Kappa Phi, Sigma Xi, Alpha Delta Kappa, ASEE, AAHE and AIChE.

Professor Morell has published over 30 scientific and education papers as well as invited guest lectures, and has received various honors during her academic career; among them, Distinguished Professor - ChE College of Engineering, AY 1999-2000, the Excellence in Teaching Award by Tau Beta Pi Engineering Honor Society- UPRM Chapter received in 1994, and the "Distinguished Educator Award" by the Alpha Delta Kappa (Honorary Women Educators Society), Mayagüez Chapter in 1995. She was also one of the 25 women in higher education from 10 states and Puerto Rico selected in 1996 to participate in the South Eastern Forum of Women in Higher Education and was nominated for the US Chemical Manufacturers Award for Excellence in Teaching in 1996. Lueny is member of the following advisory boards: Global Wireless Education Consortium (GWEC), Northeastern University's NSF-sponsored Connections Project and NSF ERC CenSSIS Center. She has served in panel reviews for NSF, NASA and AIR.

## PRINCIPAL PUBLICATIONS DURING THE LAST 5 YEARS

Morell, Lueny, Zayas, José and Vélez, Jorge, **The Design of a Skill-Based Course Focused on Student Outcomes: A Partnership Template**, ASEE Annual Conference Proceedings (refereed), 1995.

Morell Lueny, Beauchamp, Gerson, **Integration of Skills Development Across the Engineering Curriculum**, ASEE Annual Conference Proceedings (refereed), 1995.

Morell, Lueny, **Cooperative learning technique included in Collaborative Learning: A Sourcebook of Higher Education**. Volume II. Stephanie Kadel & Julia A. Keehner, published by the National Center on Postsecondary Teaching, Learning & Assessment, 1994.

Morell, Lueny et al, **Compendium of Cooperative Learning Experiences**, published by the Alliance for Minority Participation Project, University of Puerto Rico, Rio Piedras, 1995.

Morell, Lueny, Velázquez, Carlos, **Enhancing Student Success in an Introductory Chemical Engineering Course: Impact of the Cooperative Learning Strategy**, 1996 ASEE Conference Proceedings (refereed).

Morell, Lueny, Colucci, J., Carter L., Estévez, L., Colón G., Padrón, F., **An Inter-disciplinary Undergraduate Manufacturing Engineering Option for Chemical Engineering**, 1996 ASEE Conference Proceedings (refereed).

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Toro, Zulma, Morell, Lueny, Villa, Elsa, Rios, Leticia, Lloyd, Sandra, **Why are They Still Here? Findings from a Preliminary Study of Hispanic Undergraduate Women in Engineering**, ASEE Conference Proceedings, Charlotte, North Carolina, June 23, 1999.

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Morell, Lueny, et al, **A Decade Of Partnership: A Success Story of UPRM and Raytheon**, ICEE 99 Conference Proceedings, Ostrava, Czech Republic, August 1999.

Morell, Lueny, José R. López, Moisés Orengo, Rosa Buxeda, Rosa Betancourt, **Curricular Revision Focused on Student Learning at Minority Institutions: the Case of the Puerto Rico - Louis Stokes Alliance for Minority Participation**, 2000 ASEE Conference Proceedings, St. Louis, MO. June 18-21, 2000 (peer reviewed).

Morell, Lueny, Ramón Vázquez Espinosa, Jorge I. Vélez-Arocho, Rosa Buxeda, **Remote Sensing and GIS Option: Integrating Research and The Learning Factory Model**, 2000 ASEE Conference Proceedings, St. Louis, MO. June 18-21, 2000 (peer reviewed).

Morell, Lueny, Jorge I. Vélez, Ramón Vázquez, Rosa Buxeda, **Hands-on Learning: Two Approaches to Enhance the Undergraduate SMET Curriculum**, 2000 ICEE Conference Proceedings, Taiwan, August 2000 (peer reviewed).

Lueny Morell, Ramón Vázquez-Espinosa, Jorge I. Vélez-Arocho, Rosa Buxeda, **Learning by Doing: Integrating Undergraduate Research and RS/GIS Curriculum**, 2000 IGARSS Conference Proceedings, Hawaii, July, 2000 (peer reviewed).

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Morell, Lueny, Jorge I. Vélez, Rosa Buxeda, **A Faculty Development Strategy for Effectively Integrating undergraduate Research and Mentoring in the SMET Curriculum**, 2000 Information Technology Based Higher Education (ITHET) Conference Proceedings, Istanbul, Turkey, July 3-5, 2000 (peer reviewed).

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