

CURRICULUM VITAE

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- 1. Name:** Alessandro Anzalone
-
- 2. Academic Rank:** Director, Sponsored Research Office, Polytechnic University of Puerto Rico
Associate Professor, Chemical and Industrial Engineering Departments, Polytechnic University of Puerto Rico
-
- 3. Degrees:** Ph.D. Chemical Engineering, University of South Florida, Tampa, Florida, 2003
M.S. Chemical Engineering, Polytechnic University, Brooklyn, New York, 1996
B.S. Chemical Engineering, Universidad Nacional Experimental Politécnica “Antonio José de Sucre” (UNEXPO), Barquisimeto, Venezuela, 1993
-
- 4. Number of years of Service at Polytechnic University of Puerto Rico:** 2 years
-
- 5. Other related experience (teaching, industrial, etc.)**
- Associate Chair, Chemical Engineering Department, Polytechnic University of Puerto Rico, 2005-2006
 - Postdoctoral Researcher, University of South Florida, Tampa, Florida, 2003-2005
 - Instructor and Research Assistant, Chemical Engineering Department, University of South Florida, 1997-2003
 - Assistant Professor, Chemical Engineering Department, UNEXPO, Venezuela, 1997-2003
 - Instructor, Chemical Engineering Department, UNEXPO, Venezuela, 1993-1997
 - Chemical Oil Well Stimulation Engineer, Production Engineering, San Tomé Oil Field, PDVSA, Venezuela, 1993
 - Intern, Production Department, Licorerías Unidas S.A. (Seagram), Venezuela, 1992-1993
 - Intern, Production Economics, El Palito Oil Refinery, PDVSA, Venezuela, 1991-1992
-
- 6. Consulting**
-
- 7. States in which registered:** Colegio de Ingenieros de Venezuela No. 89566
-
- 8. Principal publications of last five years:**
- Anzalone, A. and Sanjuán, M., Translation into Spanish of the third edition of the book “Principles and Practices of Automatic Process Control” by Carlos A. Smith and Armando B. Corripio, completed February 2007.
 - Anzalone, A., Boles, J., Greene, W., Young, K., Israelachvili, J., and Alcantar, N., “Confined fluids and their role in pressure solution”, Chemical Geology, Volume 230, Issues 3-4, 22 June 2006, Pages 220-231
 - Young, K., Anzalone, A., and Alcantar, N., “The Mexican Cactus as a New Environmentally Benign Material for the Removal of Contaminants in Drinking Water”, Materials Science of Water Purification, 2006 Materials Research Society Spring Meeting Proceedings, April 17-21, San Francisco, CA (Invited paper).
 - Young, K., Anzalone, A., Alcantar, N., “Using the Mexican cactus as a natural-based process for removing contaminants in drinking water”, PMSE Preprints (2005), 93 965-966.
 - Young, K., Anzalone, A., Davis-Salazar, K., Joseph, B., Stewart, M., Pichler, T., Viveros, T., Picquart, M., Alcantar, N., “International Multidisciplinary Efforts in the Development of a Sustainable Green Technology for the Removal of Contaminants in Drinking Water, AIChE 2005 Annual Meeting and Fall Showcase, Conference Proceedings, p 13591-13597
 - Young, K., Anzalone, A., Alcantar, N., “Using the Mexican Cactus as a Natural-Based Separating Agent in a Filter for Removing Contaminants in Drinking Water”, AIChE 2005 Annual Meeting and Fall Showcase, Conference Proceedings, p 9479-9483

- Anzalone, A., Bewtra, J., and Ali, H., “Physical and Chemical Treatment of Wastewaters”, Encyclopedia of Environmental Science and Engineering, 5th Ed, James R. Pfafflin and Edward N. Ziegler, Editors, CRC Press, Published Jan 2006, ISBN: 0849398436.
- Anzalone, A., “Urban Air Pollution Modeling”, Encyclopedia of Environmental Science and Engineering, 5th Ed, James R. Pfafflin and Edward N. Ziegler, Editors, Gordon and Breach Science Publishers, CRC Press, Published Jan 2006, ISBN: 0849398436.
- Anzalone, A., Iglesias, E., García, Y., and Smith, C., “A fuzzy logic controller with fuzzy scaling factor calculator applied to a nonlinear chemical process”, Technical Journal of the College of Engineering of the University of Zulia (Revista Técnica de la Facultad de Ingeniería de la Universidad del Zulia), Vol. 26, No. 3, pp. 189-196, 2003

9. Scientific and Professional Societies in the last five years:

- International Society for Pharmaceutical Engineering (ISPE)
- National Council of University Research Administrators (NCURA)
- American Institute of Chemical Engineers (AIChE)
- American Society for Engineering Education (ASEE)
- American Chemical Society (ACS)
- Water Environment Federation (WEF)
- Institute of Electronic and Electrical Engineers (IEEE)
- Instrumentation, Systems, and Automation Society (ISA)
- Omega Chi Epsilon, Chemical Engineering Honor Society.
- Tau Beta Pi, Engineering Honor Society
- Colegio de Ingenieros de Venezuela.

10. Honors and Awards:

- Second Place, 2006 Hispanics in Engineering National Conference Poster Presentation for “Detection of Particle Presence Inside Glass Containers Using Ultrasonic Measurements”, San Juan, Puerto Rico, November 14-17, 2006.
- Second Place, Engineering Research Poster Presentation for “Characterization of CdSe Nanoparticles Films”, University of South Florida, April 2004.
- Honorable Mention in Characterization for the poster “Study of Tribological and Optical Properties of CdSe Nanoparticles Films”, University of Central Florida, March 2004.
- Certificate of Recognition for Provost’s Award for Outstanding Teaching by a Graduate Assistant, USF April 2003.
- Award for Academic and Scientific Activities, National Commission for Academic Support (CONABA, Venezuela), 1997.
- National Council for Scientific Research Fellowship (CONICIT, Venezuela), 1997-2002.
- Best Work Presented in the Area of Heat Transfer at UNEXPO’s First Research Conference, 1993.
- UNEXPO’s Excellent GPA Scholarship, 1992-1993.
- Corpoven Undergraduate Studies Fellowship PDVSA, 1990-1993.

11. Institutional and Professional Service in the last five years:

- Higher Education Council of Puerto Rico, consultant for the evaluation of the Chemical Engineering Doctoral Program at University of Puerto Rico’s Mayaguez Campus, December 2006.
- Session Chair at the 2006 Hispanics in Engineering National Conference, San Juan, Puerto Rico, November 14-17, 2006.
- Faculty Advisor Polytechnic University of Puerto Rico’s Chapter, International Society for Pharmaceutical Engineering (ISPE), 2005-present.
- Sponsored Research Council member, Polytechnic University of Puerto Rico (2005-2006)

- Outcomes Assessment Committee, Chemical Engineering Department, Polytechnic University of Puerto Rico, 2005-present
- Reviewer for the Science and Engineering Journal of the University of the Andes (Revista Ciencia e Ingeniería, Universidad de los Andes), Mérida, Venezuela.
- Reviewer for the Technical Journal of the College of Engineering of the University of Zulia (Revista Técnica de la Facultad de Ingeniería de la Universidad del Zulia), Maracaibo, Venezuela.
- Exhibition and Competition Judge - Engineering Expo 2004, University of South Florida, February 2004.
- Competition Judge - Engineering Expo 2003, University of South Florida, February 2003.
- Conference Judge - Florida-Georgia Louis Stokes Alliance for Minority Participation in Science, Technology, Engineering, and Mathematics, University of South Florida, 2003

12. Professional Development Activities in the last five years:

- Successful proposal Development Workshop, Grant Resource Center, American Association of State Colleges and Universities, Washington, DC, March 1-3, 2007.
 - Understanding and Responding to HED Requests for Applications, A workshop for Minority Serving Institutions, Higher Education for Development, Washington, DC, February 28-March 1, 2007.
 - Oral Solid Dosage Manufacturing Facilities: Current Processing Technologies and Case Studies in the Planning, Designing, Engineering and Qualifying of Modern Day Facilities, ISPE's Tampa 2007 Continuing Education Conference, Tampa, FL, February 14-15, 2007.
 - Design and Operation of Biotechnology – Upstream and Downstream Processing, ISPE's Tampa 2007 Continuing Education Conference, Tampa, FL, February 12-13, 2007.
 - Problem Based Learning, Polytechnic University of Puerto Rico, January 26, 2007
 - Fundamentals of Sponsored Project Administration, National Council of University Research Administrators, Orlando, FL, January 17-19, 2007
 - FastLane Grant Administrators Workshop, University of Maryland at College Park, October 22, 2006
-
- ABET Faculty Workshop on Assessing Program Outcomes, Condado Plaza, San Juan, PR, July 23, 2006.
-
- Method and Product Transfer Program: Managing Successful Technology Transfer Projects, Sponsored by ISPE and Lilly, June 08, 2006
-
- Understanding and Harnessing Complexity in the Environment, 2005 Meeting of the Biocomplexity in the Environment Awardees, National Science Foundation, Arlington, Virginia, March 21-23, 2005.
-
- Biocomplexity in the Environment Materials Use: Science, Engineering and Society (MUSES) Workshop, National Science Foundation, Arlington, Virginia, October 6-7, 2004
-
- X-Ray Diffraction Training, University of South Florida, September 2004.
-
- Biosafety Principles and Practices, University of South Florida, May 25, 2004.
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- Cleanroom Safety Training, University of South Florida, May 12, 2004.
-
- Laboratory and Computer Safety Training, Los Alamos National Laboratory, April 2004.
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CURRICULUM VITAE

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- 1. Name:** María Victoria Arroyo Caraballo
-
- 2. Academic Rank:** Director, Chemical Engineering Department, Polytechnic University of Puerto Rico
Associate Professor, Chemical Engineering Department, Polytechnic University of Puerto Rico
-
- 3. Degrees:** M.S. Chemical Engineering, University of Puerto Rico-Mayagüez Campus, 1997
B.S. Chemical Engineering, University of Puerto Rico-Mayagüez Campus, 1992
-
- 4. Number of years of Service at Polytechnic University of Puerto Rico:** 9 years
-
- 5. Other related experience (teaching, industrial, etc.)**
- Head, Chemical Engineering Department, Polytechnic University of Puerto Rico, San Juan, PR, May 2001 to present
 - Associate Professor, Chemical Engineering Department, Polytechnic University of Puerto Rico, San Juan, PR, August 2004 to present
 - Assistant Professor, Chemical Engineering Department, Polytechnic University of Puerto Rico, San Juan, PR, August 1999 to July 2004
 - Chemical Laboratory Coordinator, Science and Mathematics Department, Polytechnic University of Puerto Rico, San Juan, PR, August 1999 to May 2001
 - Instructor, Science and Mathematics Department, Polytechnic University of Puerto Rico, San Juan, PR, August 1998 to July 1999
 - Consultant Engineer, Dupont Pharmaceutical Co. of Puerto Rico, Manatí, PR, May 1998 to August 1998
 - Instructor, Science and Technology Department, Inter American University of PR, Ponce, PR, August 1997 to December 1997
 - Instructor, Science Department, Inter American University of PR, San Germán, PR, January 1997 to July 1997
 - Laboratory Technician, University of Puerto Rico (RUM), Agricultural Experiment Station, Rum Pilot Plant, Río Piedras, PR, October 1994 to September 1996
 - Project Engineer, Kraft General Foods, Technical Center, Tarrytown, NY, Summer Intern; 1993 and 1994
 - Instructor, Chemistry Department, University of Puerto Rico (RUM), Mayagüez, PR, January 1993 to May 1994
 - Teaching Assistant, Department of Chemical Engineering, University of Puerto Rico, Mayagüez, PR, January 1993 to December 1993
 - Teaching Assistant, Department of Chemistry, University of Puerto Rico, Mayagüez, PR, January 1992 to December 1992
-
- 6. Consulting**
-
- 7. States in which registered:** Puerto Rico, PE #12760
-
- 8. Principal publications of last five years:**
- Arroyo, M.V., “Kinetics of Aerobic Degradation of Toluene by a Tropical Isolated Soil Bacterium”, Ibarra-Berastegi, G., Brebbia, C. A. Zannetti, P.; Developmental and Application of computer Techniques to Environmental Studies, VIII, WIT PRESS, 2000
-
- 9. Scientific and Professional Societies in the last five years:**
- College of Engineers and Land Surveyors of Puerto Rico (CIAPR)
 - Puerto Rico Institute of Chemical Engineers (IIQ)

- International Society for Pharmaceutical Engineering (ISPE)
- American Institute of Chemical Engineers (AIChE)
- American Society for Engineering Education (ASEE)
- American Chemical Society (ACS)

10. Honors and Awards:

- Distinguished Woman Engineer of Chemical Engineers Institute, CIAPR, 2006
- Graduate and Professional Opportunities Fellow; GEM, 1993-1995

11. Institutional and Professional Service in the last five years:

- Institutional Outcomes Assessment Committee, Polytechnic University of Puerto Rico (PUPR), October, 2006 to present
- Secretary of Puerto Rico Institute of Chemical Engineers, September, 2005 to present
- Impart Material and Energy Balances review for the Chemical Engineering Professional Engineering Exam students, San Juan, January and July, 2005 to present
- Member of the Women Professional Commission of the CIAPR, July, 2005 to present
- Member of the Education Commission of the CIAPR, October, 2004 to present
- Faculty Advisor Polytechnic University of Puerto Rico's Student Chapter, Instituto de Ingenieros Químicos (IIQ), May, 2004 to present
- Faculty Advisor Polytechnic University of Puerto Rico's Student Chapter, American Institute of Chemical Engineers (AIChE), January, 2003 to present
- Scientific Fair evaluator of the "Superintendencia de Escuelas Católicas de Puerto Rico", Guaynabo, PR, February 2003 to present
- Faculty Advisor for Chemical Engineering students participation in COINAR, CIAPR, March, 2006 and 2007
- Speaker at the Notre Dame High School Career Day, "Chemical Engineering at the Polytechnic University of Puerto Rico", Caguas, Puerto Rico, October, 2005
- Speaker at the "Taller de Verano Preingeniería y Preagrimensura 2005", PUPR, June, 2005
- Auditor of Puerto Rico Institute of Chemical Engineers, September, 2004 to August, 2005
- Director of Puerto Rico Institute of Chemical Engineers, September, 2003 to August, 2004
- Member of the Polytechnic University of Puerto Rico Academic Council, September 2002 to May, 2005
- Chair of the Integrity Committee of the Polytechnic University of Puerto Rico for the Middle States Association of College and Schools (MSACS) Accreditation, March, 2004 to March, 2005
- of Puerto Rico (RUM), Mayagüez, PR, January to December 1992
- Chair of the Integrity Committee of the Polytechnic University of Puerto Rico for the Middle States Association of College and Schools (MSACS) Accreditation, March, 2004 to March, 2005

12. Professional Development Activities in the last five years:

- "Estrategias para Desarrollar la Inteligencia Emocional", PUPR, January 2007
- Leadership and Vision of the Technology Integration to Teaching Workshop, December 2006
- First Congress of Biotechnology, University of Puerto Rico, Convention Center of San Juan, Puerto Rico, November 2006
- ABET Faculty Workshop on Assessing Program Outcomes, Dr. Gloria Rogers, Condado Plaza Hotel, San Juan, Puerto Rico, July 2006
- Solid Waste Management Forum, College of Professional Engineers and Surveyors of Puerto Rico, 2006, 2005, 2004

- “El Uso de la Tecnología de Membranas para Tratar Aguas de Proceso y Sanitarias”, CIAPR, June 2006
- Method and Product Transfer Program: Managing Successful Technology Transfer Projects, Sponsored by ISPE and Lilly, June 2006
- Process Cleaning and Cleaning Validation, CIAPR, June 2006
- “Manejo Seguro de Cloro Gas”, CIAPR, June 2006
- Emotional Intelligence Workshop, Dr. Carlos Andujar, Polytechnic University of Puerto Rico, San Juan, Puerto Rico, April 2006
- “Principios de Planificación Financiera para Profesionales en su Práctica Privada”, CIAPR, February 2006
- Milling and Isolation Technologies for API’s, CIAPR, February 2006
- “Taller: “Outcomes Assessment” en el Salón de Clases”, PUPR, August 2005
- “Revolución en el Manejo de los Desperdicios Sólidos de Puerto Rico”, CIAPR, August 2005
- Conference “El Cerebro que Aprende”, Dr. Colón, Polytechnic University of Puerto Rico, San Juan, Puerto Rico, August 2005
- Environmental Regulation Update, Puerto Rico Institute of Chemical Engineers, July 2005
- Pharmaceutical Chemical Synthesis Production-An Overview, CIAPR, February 2005
- Piping and Instrumentation Diagrams (P&ID), CIAPR, January 2005
- “Taller: Propiedad Intelectual y Derechos de Autor”, PUPR, January 2005
- “La Unidad de Producción de Paraxileno”, CIAPR, November 2004
- Relief Devices Sizing Workshop, CIAPR, June 2004
- Updating and Re-submitting According to the Revised Regulation of Environmental Protection Agency Risk Management Plans, CIAPR, June 2004
- Design Fundamentals of Biopharmaceutical Facilities, CIAPR, March 2004
- “Taller: Solución de Problemas”, PUPR, February 2004
- “Taller: “Outcomes Assessment” , PUPR, March 2003
- “Restauración Ambiental para un Desarrollo Sostenible: Alternativas y Nuevas Tecnologías”, CIAPR, February 2003
- “Taller: Retención Estudiantil”, PUPR, April 2002
- “Taller: Laboratorios a Microescala para los Cursos de Química General, Orgánica y Analítica”, PUPR, February 2002

CURRICULUM VITAE

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- 1. Name:** Elba B Herrera
-
- 2. Academic Rank:** Associate Professor, Chemical Engineering Department
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- 3. Degrees:** Master of Science in Chemical Engineering, University of Puerto Rico, Mayagüez Campus, 1994
Bachelor of Science in Chemical Engineering, National University of Trujillo, Peru, October, 1986
-
- 4. Number of years of Service at Polytechnic University of Puerto Rico:** 13 years
-
- 5. Other related experience (teaching, industrial, etc.)**
- Associate Professor, Chemical Engineering Department, Polytechnic University of Puerto Rico, San Juan, Puerto Rico, 11/03 – Present
 - Assistant Professor, Chemical Engineering Department, Polytechnic University of Puerto Rico, San Juan, Puerto Rico, 05/01 – 11/03
 - Assistant Professor, Science and Mathematics Department, Polytechnic University of Puerto Rico, San Juan, Puerto Rico, 08/94 – 05/01
 - Research Assistant, Chemical Engineering Department, Worcester Polytechnic Institute, Worcester, Massachusetts, 08/96 – 02/97
 - Teaching Assistant, Department of Chemical Engineering, University of Puerto Rico, Mayagüez, Puerto Rico, 08/91 - 07/94
 - Engineer, Chemical Cleaning and Equipment, Lima, Peru, 06/87 - 07/91
 - Internship, La Pampilla Petroleum Refinery, Peruvian Petroleum Company, Lima, Perú, Summer 1984
-
- 6. Consulting**
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- 7. States in which registered:**
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- 8. Principal publications of last five years:**
-
- 9. Scientific and Professional Societies in the last five years:**
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- 10. Honors and Award:**
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- 11. Institutional and Professional Service in the last five years:**
- Member, Institutional Outcomes Assessment Permanent Committee, Polytechnic University of Puerto Rico, 08/06 – Present
 - Member, Chemical Engineering Department Outcomes Assessment Committee, 2003 – Present
 - Secretary, Institutional Outcomes Assessment Permanent Committee, Polytechnic University of Puerto Rico, 08/04 – 08/06
 - Co-Chair, Integrity Committee for Accreditation by Middle States Association of Colleges and Schools, Polytechnic University of Puerto Rico, 03/04 - 03/05
 - Member, Student Learning Assessment Committee for Accreditation by Middle States Association of Colleges and Schools, Polytechnic University of Puerto Rico, 03/03 - 03/05
 - Department Head Substitute, Chemical Engineering Department, Polytechnic University of Puerto Rico, San Juan, Puerto Rico, May 2004
-
- 12. Professional Development Activities in the last five years:**
- Workshop “Derechos de Autor en la era Digital”, Lic. Carmen Cintrón Ferrer, Polytechnic University of Puerto Rico, San Juan, Puerto Rico, April 2007
 - Workshop “Liderazgo y Visión de la Integración de las Tecnologías de la Información a la Docencia”, Polytechnic University of Puerto Rico, San Juan, Puerto Rico, December 2006
 - First Congress of Biotechnology, University of Puerto Rico, Convention Center of San Juan, Puerto Rico, November 2006

- Outcomes Assessment Workshop, Dr. Gloria Rogers, Condado Plaza Hotel, San Juan, Puerto Rico, July 2006
- Emotional Intelligence Workshop, Dr. Carlos Andujar, Polytechnic University of Puerto Rico, San Juan, Puerto Rico, April 2006
- Conference “El Cerebro que Aprende”, Dr. Colón, Polytechnic University of Puerto Rico, San Juan, Puerto Rico, August 2005

CURRICULUM VITAE

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- 1. Name:** José Ramiro Rodríguez Perazza
-
- 2. Academic Rank:** Assistant Professor
-
- 3. Degrees:** Master, Environmental Protection Management, PUPR, 1999
Master, Engineering Management, PUPR, 1998
BScE, UPR, 1964
-
- 4. Number of years of Service at Polytechnic University of Puerto Rico:** 6
-
- 5. Other related experience (teaching, industrial, etc.)**
- University Teaching 6 years
 - General Management, 14 years
 - Sales and Marketing, 2 years
 - Industrial and Distribution Management, 6 years
 - Process Management, 5
 - Engineering, Design, 3 years
 - Operations Engineering, 4
 - Military, 2 years
-
- 6. Consulting**
- Project Management, New Venture
 - Engineering Management, Maritime Development
 - Strategic Planning, Government
 - Solid Waste Management, Waste to Energy
-
- 7. States in which registered:** Puerto Rico, PE #8300
-
- 8. Principal publications of last five years:**
- Analysis of Solid Waste Management in Puerto Rico, Dimensión, 2006
 - Miscellaneous short topics on language, Dimensión, quarterly regular column, last ten years
-
- 9. Scientific and Professional Societies in the last five years:**
- Advisory Council of the Unión Panamericana de Asociaciones de Ingenieros (UPADI)
 - Sociedad de Ingenieros de Puerto Rico
 - National Society of Professional Engineers
 - Tau Beta Pi Engineering Society
 - College of Professional Engineers of Puerto Rico
 - American Institute of Chemical Engineers
-
- 10. Honors and Awards:**
- Western Alumni Association of The College of Agriculture and Mechanical Arts of Puerto Rico, Exalted to the Hall of Fame of Distinguished Graduates of the Association, 17 April 2006
 - Environmental Protection Agency, Environmental Quality Award for Protecting and Enhancing Environmental Quality, April 1999
 - Pan American Union of Engineering Societies (UPADI), Carlos López Rivera Inter American Integration and Solidarity Award, 1999
 - College of Engineers & Surveyors of Puerto Rico (CIAPR), Distinguished Chemical Engineer, 1997
 - Phi Eta Mu Greek Letter Society, Félix Ochoteco Medal of Merit, 1976, Distinguished Brother Lifetime Award, 1996
 - Tau Beta Pi Engineering Honor Society, inducted as Eminent Engineer, 1989
-
- 11. Institutional and Professional Service in the last five years:**
- Coordinator, ABET Accreditation Self Study Committee, Chemical Engineering

Department, PUPR

- Coordinator, Council of Higher Education of Puerto Rico Accreditation Self Study Committee, Chemical Engineering Department, PUPR
 - Editor, Politechnê, PUPR Journal
 - Co Chair, Middle States Colleges and Schools Self Study Committee on Admissions, PUPR
 - Member, Strategic Planning Committee, PUPR
 - Chair, Vice Chair, Board of Examiners of Engineers and Surveyors, Puerto Rico
 - President, Advisory Council, Unión Panamericana de Asociaciones de Ingenieros
-

12. Professional Development Activities in the last five years:

- Solid Waste Management Forum, College of Professional Engineers and Surveyors of Puerto Rico, 2006, 2005, 2004, 2003
- ABET Accreditation Seminars, 2006, 2004
- Pharmaceutical Synthesis Update Seminar, Puerto Rico Institute of Chemical Engineers, 2006
- Environmental Regulation Update, Puerto Rico Institute of Chemical Engineers, 2005
- Strategic Planning Seminar, Department of Transportation and public Works, Puerto Rico

Appointed as Auxiliary Professor at the Chemical Engineering Faculty in the Fall Academic period of 2004. Advanced to Associate Professor in December 2006.

CURRICULUM VITAE

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- 1. Name:** Alejandro Suarez
-
- 2. Academic Rank:** Assistant Professor, Chemical Engineering Department,
Polytechnic University of Puerto Rico
-
- 3. Degrees:** PhD University of Missouri-Columbia, 2001
Master of Science in Chemical Engineering, UPR, 1993
BS University of San Marcos-Peru 1987
-
- 4. Number of years of Service at Polytechnic University of Puerto Rico:** 11 years
-
- 5. Other related experience (teaching, industrial, etc.)**
- Zinc refinery CAJAMARQUILLA Peru 1996
 - Ores Concentrator CENTROMINPERU Peru 1997
-
- 6. Consulting**
- Consulting to US Semiconductor Technology 03/07
 - Consulting to NSEI-Columbia MO 02/07
-
- 7. States in which registered:** PR ET
-
- 8. Principal publications of last five years:**
- Alejandro Suarez, Mark A. Prelas, Tushar K. Ghosh, Sudarshan K. Loyalka, Robert V. Tompson and Dabir S. Diffusion of Boron into Diamond Films using the Electric Field Enhanced Diffusion, Journal of Wide Band Materials, Vol.10, No.1, 15 July 2002.
 - Jaime Benitez, Abraham Rodriguez and Alejandro Suarez. Optimization Technique for Sewage Conditioning with Polymer and Skeleton Builders; Water Research, Vol. 28, No. 10, 2067
-
- 9. Scientific and Professional Societies in the last five years:**
- American Nuclear Society
 - Member of Sigma Xi Chapter of Columbia MO
 - Member of the Materials Research Society
-
- 10. Honors and Awards:**
- Outstanding Graduate Student in nuclear Engineering 2000
 - NSF-MGP Marshall Fellow, 1999-2001
-
- 11. Institutional and Professional Service in the last five years:**
- Full Participation in the Program Outcomes Assessment
 - Full participation at the Academic Council of PUPR
-
- 12. Professional Development Activities in the last five years:**
- Attendance to Biotechnology Conference at UPR-Carolina
 - Attendance to PR-SBDC federal funds for SBIR/STTR Programs

CURRICULUM VITAE

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- 1. Name:** Florabel R. Toro-Rodríguez
-
- 2. Academic Rank:** Associate Professor
-
- 3. Degrees:** Juris Doctor, University of Puerto Rico-Río Piedras Campus, 2006
MEChE, University of Puerto Rico-Mayagüez Campus, 1997
BSChE, University of Puerto Rico-Mayagüez Campus, 1984
-
- 3. Number of years of Service at Polytechnic University of Puerto Rico:** 12 years
- **1988-1990** Mechanical Engineering Department, Instructor
 - **1997-2001** Mechanical Engineering Department, Assistant Professor
 - **2001-2005** Chemical Engineering Department, Assistant Professor
 - **2005 to present** Chemical Engineering Department, Associate Professor
-
- 4. Other related experience (teaching, industrial, etc.)**
- Summer Internship, EPA-Region 2 Office of Regional Counsel, 2005
 - Instructor, University of Puerto Rico-Mayagüez Campus, 1996-1997
 - Teacher Assistant, University of Puerto Rico-Mayagüez Campus, 1995-1996
-
- 5. Consulting**
- Safety and Environmental Regulations Consultant, Cruz Moya & Toro, Asociados, 2001 – to present
 - Environmental Regulations Consultant, Axel Medina & Asociados, 2001-2004
 - Pharmaceutical Projects Consultant, Process and Pharmaceutical Engineering Consultants, 2000
-
- 6. States in which registered:** Puerto Rico: Esq. 17617, PE 10833
-
- 7. Principal publications of last five years:** none
-
- 8. Scientific and Professional Societies in the last five years:**
- Puerto Rico Bar (CAPR), 2007 to present
 - Phi Alpha Delta Law Fraternity, 2005 to present
 - Puerto Rico College of Engineers and Land Surveyors (CIAPR), 2000 to present
-
- 9. Honors and Award:**
- Juris Doctor, Magna Cum Laude, 2006
 - BSChE, Magna Cum Laude, 1984
-
- 10. Institutional and Professional Service in the last five years:**
- Mentor to the Chemical Engineering Department, 2002 to present
 - Member of the Legislative Commission, CIAPR, 2006 to present
 - Director of the Chemical Engineers Institute, CIAPR, 2002- 2003, 2006 to present
 - Speaker of the First Environmental Conference, University of Puerto Rico-School of Law, “The Right to Public Information”, February 18, 2006
 - Speaker at the Engineering and Architecture High School Students Workshop, Polytechnic University, “Why Study Chemical Engineering?”, June 17, 2006
 - Member of the Polytechnic University Academic Council, 2002-2005
 - Speaker at the Our Lady of Lourdes High School Career Day, “ Chemical Engineers Do It Differently!”, October 22, 2004
-
- 11. Professional Development Activities in the last five years:**
-
- Leadership and Vision of the Technology Integration to Teaching Workshop, 2006
 - Professional Responsibility in the Process of Costs Estimates, Tariff and Stamps Cancellation, 2006
 - Engineering and Law, 2006

- Relevance of the Forensic Technique in the Evidence of Criminal Responsibility under the New Penal Code, 2005
 - Piping and Instrument Diagrams Workshop. 2005
 - Pharmaceutical Chemical Synthesis Production-An Overview, 2005
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CURRICULUM VITAE

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- 1. Name:** Pablo Traverso Avilés
-
- 2. Academic Rank:** Assistant Professor
-
- 3. Degrees:** MSChE, University of Puerto Rico (Mayagüez Campus)1998
BSChE, University of Puerto Rico (Mayagüez Campus)1995
-
- 4. Number of years of Service at Polytechnic University of Puerto Rico:** 5 years
-
- 5. Other related experience (teaching, industrial, etc.)**
- Industrial**
- Process Engineer in the printed circuit board (PCB) industry Viasystems PR at San Germán. 2000-2001
- Teaching**
- Professor at the Chemical Engineering Department in the University of Puerto Rico (Mayaguez Campus) 1998-2000
- Research**
- Acid properties of binary solids and zeolites by adsorption microcalorimetry technique 1995-1997
 - Photocatalytic detoxification of water and air streams contaminated with volatile organic compounds 1995-1997
-
- 6. States in which registered:** Puerto Rico 21369 E.I.T.
-
- 7. Publications:**
- Characterization of the acid properties of tungsten/zirconia catalysts using adsorption microcalorimetry and n-pentane isomerization activity. Journal of Catalysis 187, 131-138 (1999).
-
- 8. Scientific and Professional Societies in the last five years:**
- American Institute of Chemical Engineers (AIChE)
 - Colegio de Ingenieros y Agrimensores de PR
 - τβπ Engineering Honor Society
 - International Society Pharmaceutical Engineering (ISPE)
-
- 9. Honors and Award:**
- College Graduation Magna Cum Laude
 - Chemical Engineering Department Honor Student
 - Colgate / Palmolive Fellowship
 - Mobil company Fellowship
 - Highest Eladio Tirado High School score in College Board Test
 - High School Graduation with High Honors
-
- 10. Institutional and Professional Service in the last five years:**
- Chemical Engineering Unit Operation Laboratory Coordinator
 - Integrity Committee Middle States Accreditation 2005
-
- 11. Professional Development Activities in the last five years:**
- COINAR Seminar, Colegio Ingenieros y Agrimensores de PR Mar 2007
 - Workshop “Estrategias para desarrollar la inteligencia emocional en el salón de clases” Jan 2007
 - Seminar “Blood born pathogens” Feb 2007
 - Workshop “Liderazgo y visión de la integración de la tecnología en docencia” Dec 2006
 - Workshop “Windows Movie Maker” Aug 2006

- Seminar/Workshop “Outcomes Assessment” Aug 2005
- Seminar “Milling and Isolation Technologies for API’s” Feb 2006
- Summer workshop / Pre-Ingeniería y Pre-Agrimensura 2006.
- 2da Feria de ambiente, seguridad y salud ocupacional Apr 2005
- Hispanics in Engineering National Conference Oct 2004
- Lecture “Strings Theory” Oct 2004
- Seminar “Comunicación de riesgos químicos en el trabajo.” Aug 2004
- Talk “El cerebro que aprende” Feb. 2004
- Workshop “Solución de problemas” Feb 2004
- 2003 American Institute of Chemical Engineers Annual Meeting, Nov 2003
- Seminar “Laboratorio de microescala para los cursos de Química”, Feb. 2002