María Mercedes Larrondo-Petrie, PhD

Associate Dean of Academic & International Affairs, and Professor of Computer Science and Engineering College of Engineering and Computer Science Florida Atlantic University

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Summary

- Over 20 years of demonstrated teaching excellence and leadership in public higher education in the areas of Computer Science and Engineering. Honors and accomplishments include:
 - appointed Associate Dean of Academic and International Affairs for the College of Engineering at FAU
 - received the FAU President's Leadership Award for Administration
 - named a McKnight Fellow by the Florida Endowment Fund
 - selected and funded by NSF to participate in the Women in Engineering Leadership Summit
 - completed the Harvard Institution for Higher Education Management Development Program
 - named distinguished faculty for the HERS Bryn Mawr Summer Institute for Women in Higher Education Administration
 - awarded the Florida LEAP award (Leadership in Education Advancement Program), later served as director
 - received or was nominated for six awards for teaching excellence
 - supervised 2 dissertations and 9 Master's theses to completion, currently supervising 2 PhD and 2 Masters.
- Awarded \$2.720M of funded research. Principal area is software engineering -- focusing on security, analysis, modeling, and visualization of complex object-oriented systems, secure systems engineering, integrating formal and informal methods, and software engineering support environments.
 - Research focuses on the following types of systems
 - Security and access control systems
 ecological & architectural systems
 adv. graphical user interfaces
 database systems
- Experience with collaborative research and projects
 - funded by NATO as one of four investigators in an international collaborative research project
 - chair, Research Collaboration Committee, Latin American & Caribbean Consortium of Engineering Institutions
 - co-chair of Palm Beach County Distance Learning Consortium Grant Writing Committee
- 171 publications and edited books have received 127 external citations
 - appointed to the editing board of the new Journal of Latin American & Caribbean Engineering and Education
 - 9 refereed journal publications,
 - 115 refereed conference proceedings publications, 1 Best Paper Award
 - 30 books and book chapters (5 books authored, 10 books edited, 15 book chapters)
 - 17 technical reports archived at federal or state agencies.
- Over 20 years of active participation and leadership in professional societies, including
 - elected to the Board of the International Federation of Engineering Education Societies (IFEES), appointed to the IFEES Strategic Planning Committee, and Co-Chair of the IFEES Global Engineering Education Summit
 - elected Vice President of Research of the Founding Executive Board of the Latin American & Caribbean Consortium of Engineering Institutions (LACCEI) and appointed as Executive Vice President
 - elected to Board of Directors of the Minorities in Engineering Division and of the International Division, American Society for Engineering Education (ASEE)
 - elected President and to the Executive Council of the Upsilon Pi Epsilon International Honor Society for the Computing and Information Disciplines (UPE),
 - appointed to numerous National Science Foundation research grant review and program review panels,
 - elected to ACM SIGGRAPH Education Board, and appointed chair of ACM SIGGRAPH Curriculum Committee
 - appointed chair of Tri-County Committee of the Florida Commission on the Status of Women
 - awarded Leadership Award by the UPE International Honor Society for Computing and Information Disciplines
 - co-organizer of two international NSF funded workshops on Industrializing Formal Specifications Techniques
 - appointed Conference Chair of the 3rd LACCEI Conference, and appointed to steering committees and coorganizing chair of the 1st and 2nd LACCEI International Conferences
 - appointed to steering committees for two Software Engineering Research Forum conferences

Education

PhD Computer Engineering, College of Engineering, Florida Atlantic University, Boca Raton, FL

MCS Computer Science, Inst. of Computer Science, Florida Atlantic University, Boca Raton, FL.

BS Mathematics, Barry University, Miami, FL. Minors: Spanish, and Secondary Education.

Academic Experience

1985- Florida Atlantic University, Boca Raton, FL

Associate Dean of Academic and International Affairs of the College of Engineering, appointed 2002

Professor of Computer Science & Engineering, College of Engineering, promoted 2003

Graduate Faculty, College of Engineering & Computer Science, appointed 2002

Associate Professor of Computer Science & Engineering, College of Engineering, tenured and promoted 1998

Assistant Professor of Computer Science and Engineering, promoted to tenure track 1992.

Instructor of Computer Science, appointed 1985.

1993 **Universidad IberoAmericana**, Mexico City, Mexico. Summer 1993.

Visiting Lecturer, Departamento de Informática. Awarded Outstanding Lecturer "San Ignacio" Medal.

1983 **Broward Community College,** Fort Lauderdale, FL

Adjunct Instructor in the Department of Computer Science.

1981 **College of Boca Raton**, (now **Lynn University**), Boca Raton, FL

Adjunct Instructor in the Mathematics Department. Taught Calculus and Differential Equations

Administrative Experience

2002- Florida Atlantic University

Present Associate Dean of Academic and International Affairs, College of Engineering and Computer Science

2006-2009 International Federation of Engineering Education Societies (IFEES)

Vice President, 2007-2009

Executive Board Member, 2006-2009

IFEES Strategic Planning Committee Member, 2006-2009

IFEES Global Engineering Education Summit Steering Committee Co-Chair, 2006-2008

LACCEI Liaison, UPE Liaison, 2006-2007

2002-2008 Latin American and Caribbean Consortium of Engineering Institutions (LACCEI)

Executive Director, 2008-present

Executive Vice President, 2005-present

International Liaison to IFEES, 2006-present

Editorial Board of the LACCEI Journal, 2005-present

Vice President of Research and Executive Board Member, 2003-present

Steering Committee 1st, 2nd, 3rd, 4th, 5th Annual Conference on Engineering & Technology, 2002-2007

Chair of the Research Collaboration Committee, 2003-present

Conference Chair of 3rd and 5th Annual Conferences, 2005

Chair of Governing Board Nominations Committee, 2004

Co-Chair of **Organizing Committee** of the 1st and 2nd Annual Conferences, 2003-2004

Co-Chair of Governing Board Nominations Committee, 2002-2003

Vice President of the Founding Executive Board, 2002

2003-2009 American Society for Engineering Education (ASEE)

Minorities in Engineering Division:

Member-At-Large Officer and Board of Directors, 2003-2009

Chair of MIND Links Initiative, 2004-2009

International Division:

Secretary-Treasurer and Board of Directors, 2005-2007

Webmaster, 2007-2008

Women in Engineering Division

Member-At-Large Officer and Board of Directors, 2007-2009

2007-present Red Cartagena de Ingenieria (Cartagena Network for Engineering)

Vice President, 2007-present

1990-present Upsilon Pi Epsilon International Honor Society for the Computing and Information Disciplines (UPE)

International Liaison to IFEES, 2005-present

President. 1996-1997

Executive Council Board Member, 1993-1998

Founding President of the Florida Epsilon Chapter, 1990-1992

Awarded Leadership Award top distinction for best chapter president internationally, 1992

1994-1999 Association of Computing Machinery (ACM)

ACM SIGGRAPH Education Board Member, 1994-1999

Chair of the ACM SIGGRAPH Computer Science Curriculum Committee, 1991-1999.

ACM is the premier professional society for Computer Science, Special Interest Group in Computer Graphics (SIGGRAPH) is the premier society for computer graphics and animation.

1987-2005 School District of Palm Beach County, Florida

Appointed **Chair** of the Engineering Academies Taskforce 2002-2005. Member of the Information Academies Taskforce 2002-2003. Member of the School Design Taskforce, 2002-2003. Member of Palm Beach County School Board Magnet School Taskforce to designing magnet programs 1987-1992. Appointed **Director** of High Tech Magnet at *Suncoast Magnet School, School Board of Palm Beach County 1989-1990*: Responsibilities included administration, curriculum development, design of facilities, teacher training, grant writing, textbook and technology adoption, system administration of 70-computer network and a \$650,000 budget.

Appointed **Department Chair** of **Computer Science**, *Boca Raton Community High School* 1982-1985. Designated **Master Teacher**, 1985, by scoring in the top 10% of Florida public school teachers in mastery of both content area and teaching skills, certified to conduct peer teacher evaluation and training.

Achieved Rank 4 (highest rank) Tenured High School Teacher of Computer Science and Mathematics.

Sponsored Research

Dr. Larrondo-Petrie has led sponsored research as FAU faculty totaling \$2,720,037 since fiscal year 1994 \$2,720,037 She was part of 22 funded grants and contracts, in 14 of which she was the Principal Investigator

Submitted Under Review

2008	International Workshop on Dependable Distributed Systems NSF 08-035 #0837333 OISE – Office of International Science and Education PI: Dr. E. B. Fernandez; Co-Principal: Dr. M. M. Larrondo-Petrie	\$60,000
2008	CSR-DMSS: Small: A methodology for building secure networked distributed systems NSF 08-538 CNS-Computer Systems - Computer Systems Research #6790774 PI: Dr. E. B. Fernandez; Co-Principal: Dr. M. M. Larrondo-Petrie, Dr. M. VanHilst	\$450,000
2008	CT-ISG: A methodology for building secure infrastructure software systems NSF 08-521 Cyber Trust #6572545 PI: Dr. E. B. Fernandez; Co-Principal: Dr. M. M. Larrondo-Petrie, Dr. M. VanHilst	\$500,000
2008	Coverage and Guidance with Security Patterns NSF -07-599 #6759869 #0820157, Software for the Real World	\$451,863

	PI: Dr. M.	VanHilst, Co-Principal: Dr. M. M. Larrondo-Petrie, Dr. E. Fernandez		
2007	NSF 07-57	Small: Models and patterns for privacy negotiation and enforcement 7 CISE - IIS #0811927		\$450,000
	PI: Dr. M. I	M. Larrondo-Petrie, Co-Principal: Dr. M. VanHilst and Dr. E. Fernandez		
Awarded				
2008	from Afric NSF OISE	sshop on Globalizing Engineering Education: Lessons Learned can and USA Partnerships, Cape Town, South Africa, 17-18 October 2008 – International Plan & Workshops avestigators: Andy Ward, Ann Cristy, Funded Participant: Dr. M. M. Larron		rie
2007-2008 Net Enabled Command Capability Contract: A survey and analysis on Service-Oriented Architectures and related technologies. U.S. Department of Defense's Defense Information Security Agency (DISA) Principal Investigator: Dr. E. B. Fernandez, Co-Principal: Dr. M. Larrondo-Petrie, Dr. M. VanHilst				
2007	NSF 4-035	Mexico Workshop on Global Engineering Education Challenge for the Americas \$30,503 4-035 – OISE – International Plan & Workshops #0715263 – joint proposal w/Penn State ipal Investigator Dr. I. Esparragoza, Co-Principal: M. Larrondo-Petrie, D. Sathianathan		
2004-200	NSF 04-50	ry-Academia Partnership for Students in STEM Disciplines 6 – CSEMS – DUE #0422256 07/01/04-06/30/08 nvestigator Dr. M. Huang, Co-Principal: Drs. Larrondo-Petrie, Schlossberg,	Steven	\$396,000 as.
2004-2007 Secure Web Services in the Wireless Environment Federal Earmark in Telecommunication Security Research U.S. Department of Defense's Defense Information Security Agency (DISA) Principal Investigator: Dr. E. B. Fernandez, Co-Principal: Dr. M. Larrondo-Petrie				
2003-200		s Engineering Scholars Program Grant nvestigator: Dr. Larrondo-Petrie, Co-PI: Dr. Sharon Schlossberg		\$133,622
2003-200		County Environmental Operations Division avestigator on 4 grants: Dr. Larrondo-Petrie		\$20,602
Dr. Larrondo-Petrie was Principal Investigator of the following projects completed through				\$170,835
		antic University and the Florida Center for Environmental Studies: b: Lake Okeechobee Ecosystem Study (LOES) Graphical User Interface, Principal Investigator: Dr. Larrondo-Petrie (Project Manager: Mr. Sergio Lostal, Okeechobee System Research Division)	\$85,000	0
	1996:	An Object-Oriented Data Model and Scientific Data Description Language for the Lake Okeechobee Ecosystem Study, Principal Investigator: Dr. Larrondo-Petrie (Project Manager: Dr. Todd Tisdale, Okeechobee System Research Division)	\$8,000	0
	1996:		\$22,835	5
	1995-1996:	: Water Quality Monitoring Databases and Data Verification, Principal Investigator: Dr. Larrondo-Petrie (Project Manager: Ms. Linda Moscato,	\$25,000	0
	1994-1995:	Water Quality Monitoring Division) Application of Object-Oriented Models, Databases, and Visualization Techniques in the Water Management Domain, Principal Investigator: Dr. Larrondo-Petrie	\$30,000	0

(Project Manager: Dr. Jayantha Obeysekera, Hydrologic System Modeling Division)

1996-1998 NATO, \$30,000 Care4HW: Computer Assisted Requirements Engineering for Hardware Design. Multinational grant that funded collaborative research travel (U.S.A., Spain, UK). Principal Investigator: Dr. Peter Breuer (Spain) CoPrincipal Investigator: Drs. Larrondo-Petrie, Robert France (USA); and Jonathan Bowen (UK) 1983-1996 IBM, \$1,006,171 1993-1996 Smart Programming and Testing, Principal Investigator \$16,000 Principal Investigator: Dr. Larrondo-Petrie 1993-1995 Mach Distributed Computer Environment Research and Dev. \$231,000 Principal Investigator: Dr. Larrondo-Petrie 1993-1995 Personal Systems: Operating Systems \$659,171 Principal Investigator: Dr. Larrondo-Petrie 1983-1985 Secondary Model School Project at Boca Raton Comm. High School \$100,000 Principal Investigator: Dr. Larrondo-Petrie 1995,1997 National Science Foundation \$50,000 NSF Software Engineering Grant for Workshop for Industrializing Formal Specification Techniques, Co-Principal (Principal: Dr. R. B. France) 1995,1997 IEEE Computer Society \$50,000 Workshop for Industrializing Formal Specification Techniques, Co-Principal (Principal: Dr. R. B. France) 1991-1992 State University System Grant \$35,000 Awarded by Florida Atlantic University for 9 month leave to complete PhD degree **Honors and Awards** 2006-2007 International Federation of Engineering Education Societies (IFEES)International Board Member 2006-2009 Elected to the Executive Committee **International Board Member** 2007-2009 Elected Vice President **International Vice Presidency** 2007-2008 Co-Chair of IFEES Global Engineering Education Summit International Summit Chair 2007-2008 Member of the Strategic Planning Committee **International Strategic Planning** 2006-2009 Appointed Liaison Representative by LACCEI and UPE **International Liaison** 2003-2007 American Society for Engineering Education (ASEE) 2003-2009 Elected Member-At-Large, Minority Division Board **National Board Member** 2007-2009 Elected Member-At-Large, Women in Engineering Division **National Board Member** 2005-2007 Elected Secretary-Treasurer, International Division Board **National Board Member** 2002-2007 Latin American and Caribbean Consortium of Engineering Institutions 2008-present Appointed Executive Director **International Executive Directorship** 2005-2007 Appointed Executive Vice President **International Executive Vice Presidency** 2002-2003 Elected Vice President of Founding Executive Board **International Vice Presidency** 2002-2007 Appointed Chair of Research Collaboration Committee 2003-2007 Elected Vice President of Research **International Vice Presidency** 2003-2007 Elected to Founding Board of Directors **International Board Member** 2004-2007 Appointed to Editorial Board of LACCEI Journal International Journal Editorial Board 2003 Selected to present the LACCEI Meritorius University Medal to Universidad Sergio Arboleda, Bogotá, Colombia August 19, 2003 2005 Honorary Professor, Universidad Sergio Arboleda Medal Honorary Professorship and medal of distinction awarded at LACCEI Annual Conference.

2005	Honorary Distinguished Professor, Universidad Privada del Norte, Perú Medal and Plaque Honorary Professor Medal and plaque of distinction awarded at Annual International Seminar.			
2004	Keynote Speaker, CONFINI 2004, Perú CONFINI is annual conference of the national organization of industrial engineering faculty			
2004,200	8 Keynote Speaker, NSF Alliance for Minority Participation (AMP) Expo 2004 and 2008 NF New York Urban AMP, New York, NY, USA, Apr 11-13, 2008 NSF Florida-Georgia Louis Stokes AMP, Gainesville, FL, USA, Feb 29-Mar 2, 2008 NSF Florida-Georgia Louis Stokes AMP, Miami, FL, USA Jan 29 – Feb 1, 2004			
2004	NSF funded participant in the Women Engineers in Leadership Summit \$1,000 May 3-5, 2004, U. of Connecticut, Storrs, Conn.			
2003	International Engineer Universidad Sergio Arboleda,. Bogotá, Colombia, awarded for service to the International Engineering Education Community. Received medallion and was keynote speaker at graduation of their 1 st class of Engineers			
2003	President's Leadership Award in Administration Awarded by Florida Atlantic University President in three categories, Administration, Faculty, and Staff. Cited for rendering services of an extraordinary nature and demonstrating leadership roles resulting in substantial benefits to the University and the community at large. Specifically cited for volunteering to direct the Leadership In Education Advancement Program (LEAP). Awarded March 18, 2003.			
2003	Florida Atlantic University "Save a Student" Award Awarded by the Florida Atlantic University Director of Student Retention in recognition to commitment to students and for going the extra mile to help a student in need. Awarded October 1, 2003			
2003	Parliament of OWLS Nominated for induction into this Florida Atlantic University honorary leadership society for alumni, created to recognize alumni who led student organizations while at FAU and now hold significant leadership roles that benefit South Florida, the country or the world.			
2003-200	4 HERS/Bryn Mawr Distinguished Leadership Faculty Invited as Distinguished Faculty to the HERS/Bryn Mawr Summer Institute for Women in In Higher Education Administration to present panels and workshops on Leadership Styles and on Institutional Culture, June 24, 2003, and June 29, 2004.			
1999	Bryn Mawr Higher Education Leadership Award Nominated by Florida Atlantic University and selected from international competition to participate in Summer Institute for Women in Higher Education Administration, a month of leadership training at Bryn Mawr University sponsored by Bryn Mawr and Higher Education Resource Services (HERS).			
1998	LEAP Award (Leadership in Education Advancement Program) \$1,000 Competitive Florida State University System award to attend 3 leadership conferences and seminars, one professional conference, and one year internship under the direction of the Provost of Florida Atlantic University.			
1991-1998 Upsilon Pi Epsilon International Honor Society for the Computing and Information Disciplines 2006- Liaison Representative to IFEES				
	1996-1997 Elected President International Presidency			
	1993-1998 Elected Executive Council 1992- Faculty Advisor for Florida Beta Chapter International Executive Council			
	1992 Awarded First Place International Leadership Award at the			
	Upsilon Pi Epsilon International Convention 1991-1992 Awarded Graduate Scholarship for <u>Academic Achievement Award</u> 1990-1992 Founding <u>Chapter President</u> of the Florida Beta Chapter \$1,000			

1996	Nominated for Florida Atlantic University College of Engineering Outstanding Teacher of the Year Award.	
1993	Medallon de San Iganio Outstanding Lecturer and Service Medal Competitive award for lecturers at Universidad IberoAmericana de Mexico.	Medallion
1992	Distance Learning - Teleteaching Awarded by Florida Atlantic University to participate in a summer-long specialized training	\$8,761
1991-1992	2 State University System Grant Awarded by Florida Atlantic University for 9 month leave to complete PhD degree	\$35,000
1990-1999	9 ACM SIGGRAPH (Professional Society for Computer Science) 1994-1999 Appointed Chair, ACM SIGGRAPH Computer Science Curriculum Committe 1994-1999 Appointed Member, ACM SIGGRAPH Education Committee 1990 Computer Graphics Educator's Grant Awarded thru ACM international competition of computer graphics educators	e Chair \$2,000
1992-1999	National Science Foundation Grant Review Panelist and UTE Participant Invited to serve on 1996-1999 NSF Grant Review Panels: CISE Career, - CCLI (A&I) Grant Proposals Panel and CCLI Program Evaluation Review Panel, 1999 UFE, CDD, and POWR Grant Proposals Panels, and CCLI New Program Review Panel, - CISE Research Grant Proposals, and Computer Graphics Research Grant Proposals Panel Selected as participant in Workshops in Undergraduate Teaching Enhancement: - Formal Methods 1994 and 1996, - Parallel Computing 1993, - Computer Graphics 1993 and 1994, - Clean Room Engineering 1992	
1988-1989	9 McKnight Fellow Awarded the J. P. McKnight Achievement Award and bestowed a McKnight Fellowship by the Florida Endowment Fund, which funded my PhD coursework as part of the McKnight Minority Jr. Faculty Development Fellowship Program	Fellowship \$25,000
1987-1992	2 School Board of Palm Beach County Magnet School Taskforce Charged with designing two High-Tech and Engineering Magnet Schools, and also was appointed member of the District Council for Computer Science	Appointment
1985-1986	6 Sabbatical from School Board of Palm Beach County to start PhD.	\$40,000
1985	State of Florida Department of Education S.S.A.T. Committee Selected as the Palm Beach County representative at Princeton meeting, charged with reviewing computer literacy competencies to be tested through S.S.A.T. examinations	Appointment
1985	State of Florida Master Teacher Designation based on scoring in the top 10% in both mastery of content area and mastery of teaching skills	Designation
1984-198	5American Statistical Association Award for Quantitative Literacy Project	\$5,000
1984	Nominated for the Palm Beach County Teacher of the Year Award	
1983	Harry T. Cohen Award for Teaching Excellence Competitive award within Palm Beach County.	Plaque
1983	Nominated for the University of Miami's South Florida Teacher of the Year Award	
1983	Teacher of the Year Competitive award within Boca Raton Community High School, Boca Raton, FL	Plaque
1980-198	5 School Board of Palm Beach County Computer Curriculum Taskforce Charged with designing and developing Pre-Kindergarten through twelfth grade computer curriculum for Palm Beach County public schools.	Appointment

Consultancies

1999- Coquí Software & Training

President and CEO of certified Minority-Owned S Corporation. Contracts for educational consulting, course development and delivery, educational publications, conference management, software development and web site development.

1999-2001 Internet Protection Resources

Consultant to new start-up corporation as Chief Technical Officer. Designed and implemented new secure credit-card payment web applications (using UML, HTML, Java), wrote Security Master Plan.

1999-2001 Alliance Networking Technologies

Advanced Technical Course Development and Delivery at Siemens Corporation

1998 **JHL Technologies.** Curriculum developer and trainer Object-Oriented courses (CRC, UML)

1982-1983 School Board of Palm Beach County

Consulting Systems Analyst, responsible for designing and programming the *Microcomputer Scheduling-Registration System*, and interfacing to existing student attendance application to be used in all Palm Beach County public high schools.

1980-1991 School Board of Palm Beach County

1990-1991 Contracted to adapt software to new state-of-the-art multimedia foreign language computer-networked laboratories in the public high schools

1989 Sole author of Computer Science Fortran Curriculum Guide

1981 Part of the Writing Team for Gifted Curriculum

1980-1982 Part of the Writing Team for Secondary Mathematics Curriculum

Sole author of Gifted Geometry Curriculum Guide,

Coauthor of Algebra I, General Mathematics I and II Curriculum Guides

1988-2004Reviewer for various publishers

Reviewed technical books for John Wiley Publishers, West Publishers, Prentice-Hall and PWS Publishers, Aurora Publishing.

Other Professional Development Experience

2003 Harvard University Management Development Program (MDP)

Intensive 1 week long training for Higher Education Administrators

2000 National Institute for Standards and Technology (NIST).

Participated in intensive training (60 hours total) on the *International Common Criteria*, the new standard for security assurance

1999-2000 Alias-Wavefront Maya Certification

Completed certificate program through the Center for Electronic Communication, Fort Lauderdale, FL for Computer Graphics and Animation (120 hours total)

1998-2000 ICOMOS American Technical Representative on two ICOMOS Research Expeditions to Cuba

Appointed as the American Technical Representative to the first U.S. sanctioned trip to Cuba commissioned to evaluate historical heritage sites being restored, 1998. Re-appointed for the second ICOMOS expedition, 2000. Assigned as lead on multimedia research and documentation project.

1993-1994 Novell. Completed training required for Novel Certified Netware Engineer certification.

1990 **Fundamentals of Engineering Examination Review Seminars**. Completed studies.

1990 School Board of Palm Beach County Workshops

Cooperative Learning (Teaching using Group Projects) Seminars Learning Styles Workshop

1989-1990 International Baccalaureate Program Teaching Seminars

Membership in Scientific and Professional Societies

- International Federation of Engineering Education Societies (IFEES), founding member 2006-present
 - Elected Vice President, 2007-2009
 - Elected **Member of the Executive Committee**, 2006-2009
 - Appointed Member of the Strategic Planning Committee, 2006-2007
 - Appointed Member of the Conference Steering Committee, 2006-2007
 - Appointed Co-Chair of Global Engineering Education Summit, 2007 (Istanbul), 2008 (Cape Town)
 - Appointed **International Liaison**, representing UPE in IFEES, 2005 present
 - Appointed International Liaison representing LACCEI in IFEES, 2005 present
- Latin American and Caribbean Consortium of Engineering Institutions (LACCEI), founding member 2002-present
 - Appointed Executive Director, 2008-present
 - Appointed Executive Vice President, 2005-present
 - Elected Vice President of Research, 2003-present
 - Elected **Board of Directors**, 2003-present
 - Appointed to Editorial Board of LACCEI Journal, 2004-present
 - Elected Vice President of Founding Board, 2002-2003
 - Appointed Proceedings Editor/Co-Editor, 2003-present
 - Appointed **Conference Chair**, 5th Latin American and Caribbean Conference for Engineering and Technology, Tampico, Tamaulipas, Mexico, June 2007.
 - Appointed **Technical Co-Chair**, 4th Latin American and Caribbean Conference for Engineering and Technology, Mayagüez, Puerto Rico, June 2006.
 - Appointed **Conference Chair**, 3rd Latin American and Caribbean Conference for Engineering and Technology, Cartagena de la India, Colombia, 8-9 June 2005.
 - Appointed **Organizing Co-Chair**, 2nd Latin American and Caribbean Conference for Engineering and Technology, Miami, FL, 4-6 June 2004.
 - Appointed **International Liaison** representing LACCEI in the International Federation of Engineering Education Societies (IFEES), 2005 present
 - Appointed Chair of Accreditation and Program Recognition Taskforce, 2005-present
 - Appointed Chair of International Research Collaboration Committee, 2002-present
- Association of Computing Machinery (ACM), voting member since 1976
 - Member of ACM Special Interest Group in Computer Graphics, (ACM SIGGRAPH)
 - Appointed to **International Education Board**, 1994-1999
 - Appointed Chair of Computer Science Curriculum Committee, 1994-1999
 - Member of ACM Special Interest Group in Computer Science Education, (ACM SIGCSE)
- Institute of Electrical and Electronics Engineers (IEEE), voting member since 1986.
 - *IEEE Computer Society*, voting member since 1986.
- American Society of Engineering Educators (ASEE), member since 2002
 - Elected Secretary/Treasurer, Board of Directors, ASEE International Division, 2005-2007
 - Appointed Web Master, ASEE International Division, 2006-present
 - Elected Member-At-Large, Board of Directors, ASEE Minorities in Engineering Division, 2003-present
 - Elected Member-At-Large, Board of Directors, ASEE Women in Engineering Division, 2007
 - Chair, MIND Link Committee, 2004-present
- Red Cartagena de Ingeniería (Cartagena Networks for Engineering)
 - Elected Vice President, 2007-present
- Upsilon Pi Epsilon International Honor Society for the Information and Computing Disciplines, inducted 1989
 - **International Liaison**, representing UPE in the International Federation of Engineering Education Societies (IFEES), 2005 present
 - International President 1996-1997
 - Executive Council 1993-1998
 - Outstanding International Chapter Leadership Award 1992

- Founding President, Upsilon Pi Epsilon Florida Beta Chapter, 1990-1992
- ICFEM
 - **Program Chair**, 9th International Conference on Formal Engineering Methods, ICFEM 2007, Boca Raton, Florida, USA, 13-15 November 2007.
- Tau Beta Pi Engineering Honor Society, inducted 1991
 - Lead Faculty Advisor, Tau Beta Pi Florida Epsilon Chapter, 2004-2007
- Phi Kappa Phi Honor Society, inducted 1985
- International Council on Monuments and Sites (ICOMOS), member since 1997
- American Creativity Association, charter member since 1998
- Who's Who in Formal Methods

Professional Event Organization

- Summit Co-Chair, 2nd IFEES Global Engineering Education Summit and Assembly, Cape Town, South Africa, 19 October 20 October 2008.
- Conference Co-Chair, Program Committee, and Proceedings Co-Editor, 9th International Conference on Formal Engineering Methods (ICFEM 2007), Boca Raton, Florida, 14-15 November 2007. Proceedings published by Springer Verlag. http://www.icfem2007.org/
- Summit Co-Chair, 1st IFEES Global Engineering Education Summit and Assembly, Istanbul, Turkey, 30 September 1 October 2007. http://www.ifees.net
- Plenary Program Chair, 5th LACCEI Latin American and Caribbean Conference on Engineering and Technology, Tampico, Tamaulipas, México, 29 May 1 June 2007.
- Workshop Organizer, 2nd OAS Workshop on Advancing Strategies for Achieving Quality Assurance in Latin America and the Caribbean Engineering Education, sponsored by Organization of American States (OAS) and the Latin American and Caribbean Consortium of Engineering Institutions (LACCEI), Tampico, Tamaulipas, México, 28 May 2007.
- Workshop Co-Organizer, NSF Mexico US Workshop on Global Engineering Education Challenges for the Americas, sponsored by National Science Foundation (NSF) and the Latin American and Caribbean Consortium of Engineering Institutions (LACCEI), Tampico, Tamaulipas, México, 28 May 2007.
- Technical Program Co-Chair, 4th LACCEI Latin American and Caribbean Conference on Engineering and Technology, Mayaguez, Puerto Rico, 19 21 June 2006.
- Workshop Organizer, 1st OAS Workshop on Advancing Strategies for Achieving Quality Assurance in Latin America and the Caribbean Engineering Education, sponsored by Organization of American States (OAS) and the Latin American and Caribbean Consortium of Engineering Institutions (LACCEI), San Juan, Puerto Rico, 18 June 2006.

Publications

Summary: 171 publications: 5 books authored, 10 books edited, 15 book chapters, 9 refereed journal papers, 109 refereed proceedings papers, 6 refereed extended abstracts published in proceedings and 17 technical reports archived at a federal or state agency. The publications have received at least 127 external citations

Rooks

Number of books: Authored: 5, Edited: 10, Book Chapters: 14, Citations: 49

Books Authored:

Note: The five books below were commissioned by the School Board of Palm Beach County. All were adopted to achieve a County Standard for Objectives, Presentation, and Testing for each subject area. The first two books I developed as part of a writing team specially trained in writing Standardized Curriculum and Standardized Tests. The authors are listed in alphabetical order. All were critically refereed by School Board's Curriculum Specialists.

[5] M. M. Larrondo-Petrie, *Computer Programming: Fortran: Instructional Resource Guide*, W. Cornell (ed.), the School Board of Palm Beach County, 1989.

- [4] M. M. Larrondo-Petrie, *Algebra I: Instructional Resource Guide*, M.A. Dupont (ed.), the School Board of Palm Beach County, FL, 1982.
- [3] M. M. Larrondo-Petrie, *Gifted Geometry: Instructional Resource Guide*, H. Franks (ed.), the School Board of Palm Beach County, FL, 1981.
- [2] S. Bernstein, E. Brown, C. Gregory, D. Hawkins, V. Jackson, R. Kimmer, M. M. Larrondo-Petrie and L. Sawyer, *General Mathematics I: Instructional Resource Guide* M.A. Dupont, V. Jackson and J. Scheiner, (eds.), The School Board of Palm Beach County, FL, 1980.
- [1] K. Alston, G. Granet, D. Hawkins, R. Kimmer, M. M. Larrondo-Petrie, C. Rieck and M. White, *General Mathematics II: Instructional Resource Guide*, M.A. Dupont, V. Jackson and G. Williams (eds.), the School Board of Palm Beach County, FL, 1980.

Books Edited:

- [10] M. M. Larrondo-Petrie, J. Perez, J. Garcia and I. E. Esparragoza, (eds.), *Partnering for Success: Education, Innovation, Technology, and Practice Proceedings of the 6th LACCEI Latin American and Caribbean Conference for Engineering and Technology, Tegucigalpa, Honduras, 3 6 June 2008. <i>Archived:* LACCEI: http://www.laccei.org/proceedings2008/
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Presented 21 invited talks described below.

International

Invited Plenary Panelist, "Engineering Societies Going Global," LACCEI 2008 Latin American and Caribbean Conference on Engineering and Technology, Tegucigalpa, Honduras, 4-6 June 2008.

Invited Plenary Presentation, "Applying Lessons from Culture to Engineering Education," Global Gujarat Diaspora Conference, Modesa, India, November 2007.

Invited Plenary Presentation, "The Latin American and Caribbean Consortium of Engineering Institutions," *International Conference on Engineering and Education ICONEED 2007*, 14-16 October 2007, Cartagena Network for Engineering, Cartagena, Colombia.

Invited Presentation, "Bringing Everyone to the Table to Maximize Economic Impact and Knowledge Transfer," *American Society of Engineering Education Global Colloquium*, September 2007, Istanbul, Turkey.

Invited Tutorial Presentation, *Security patterns and secure systems design*, by E.B. Fernandez and M. M. Larrondo Petrie, presented at:

- 3rd IEEE International Conference on Wireless and Mobile Communications (ICWMC 2007), 4-9 March 2007, Guadeloupe, French Caribbean.
- Third IASTED International Conference on Communications and Computer Networks, Lima, Peru, 4-6 October 2007.

Invited Speaker, "Global Engineering Capacity Building and Collaboration Strategies for Santa Marta, Colombia", Santa Marta, Colombia, 14 October 2006.

Invited Panelist, "Accreditation and Program Recognition for Engineering Programs in Latin America and the Caribbean," 4th Annual LACCEI Latin American and Caribbean Conference for Engineering and Technology, Mayagüez, Puerto Rico, 22 June 2006.

Invited Panelist, "Brown vs. the Board of Education: Fifty-two years after the ruling," *American Society of Engineering Education Annual Conference and Exposition*, Chicago Illinois, USA, 20 June 2006.

Invited Speaker, "Engineering for the Americas: The Role of LACCEI," *OAS Engineering for the Americas Symposium*, Lima Perú, 29 November – 2 December 2005.

Keynote Speaker, "Consideraciones de Seguridad y Privacidad en Sistemas Inalámbricos," *Seminario Internacional*, Universidad Privada del Norte, Cajamarca, Perú, 26 November 2005.

Keynote Speaker, "Una Metodología para Diseñar Sistemas Seguros," *Seminario Internacional*, Universidad Privada del Norte, Trujillo, Perú, 25 November 2005.

Keynote Speaker, "Acreditación, Doble Titulación y Reconocimiento Internacional," *Seminario Internacional para Administradores Universitarios*, Universidad Privada del Norte, Trujillo, Perú, 25 November 2005.

National

Invited Keynote, "Starting your PhD Research in STEM Disciplines," Florida Education Fund's McKnight Doctoral Fellows' Research & Writing Institute, Tampa, Florida, USA, 26-31 June 2008.

Invited Keynote, "Towards Dissertation Completion: Writing and Research in STEM Programs," Florida Education Fund's McKnight Doctoral Fellows' Orientation Meeting: The Phd Experience: Expectation and Realities, Tampa, Florida, USA, 13-14 June 2008.

Keynote Speaker, "Opportunities for Preparing to be a Global Engineer," *New York Alliance for Graduate Education and the Professoriate Conference*, New York, New York, USA, April 2008.

Keynote Speaker, "Opportunities for Preparing to be a Global Engineer," *Florida-Georgia Alliance for Minority Participation Conference*, Gainesville, Florida, USA, February 2008.

Invited Plenary Presentation, "Employment Opportunities, Negotiating Contracts, Publishing and Earning Tenure and Promotion in Academia", by Laurence Alexander, Glen Jones, Maria Larrondo Petrie and Steven Ullman, presented at 2007 Florida Education Fund McKnight Fellows Conference, 10 November 2007, Tampa, Florida, USA.

Invited Workshop, "Dissertation Proposal Development in Science and Engineering," *Florida Education Fund McKnight Fellows Summer Research and Writing Institute*, 1 August 2007, Tampa, Florida, USA

Invited Panelist, "Brown vs. the Board of Education: Fifty-two years after the ruling," *American Society of Engineering Education Annual Conference and Exposition*, Portland Oregon, USA, 16 June 2005.

Invited Distinguished Speaker, "Leadership Styles" and "Institutional Culture", HERS/Bryn Mawr Summer Institute for Women in Higher Education Administration, Bryn Mawr College, Bryn Mawr, Pennsylvania, USA, 21 June 2005.

Keynote Speaker, "Un Modelo para Evaluación y Mejoría Incremental de la Educación en Ingeniería y Tecnología en las Américas," *CONFINI*, Lima, Peru, 14 October 2004.

Invited Distinguished Speaker, "Leadership Styles" and "Institutional Culture", HERS/Bryn Mawr Summer Institute for Women in Higher Education Administration, Bryn Mawr College, Bryn Mawr, Pennsylvania, USA, 22 June 2004.

Keynote Speaker, "Preparing SMET Scholars for Science, Technology, Engineering and Mathematics Research and the Professoriate in a New Era," Florida-Georgia Alliance for Minority Participation, Miami, Florida, USA, 30 January 2004.

Keynote Speaker, "The International Engineer", Graduation of 1st Engineering Class, Universidad Sergio Arboleda, Bogotá, Colombia, September 19, 2003.

Invited Distinguished Speaker, "Leadership Styles" and "Institutional Culture", HERS/Bryn Mawr Summer Institute for Women in Higher Education Administration, Bryn Mawr College, Bryn Mawr, Pennsylvania, USA, 2 - 4 June 2003.

Invited Speaker, Latin American and Caribbean Consortium of Eingineering Institutions – Executive Board Meeting, "A Web Matrix to Support International Engineering Research Collaboration," Universidad Tecnologica de Santiago, Santiago de los Caballeros, Dominican Republic, October 7, 2002.

Local:

Invited Speaker, Florida Engineering Society - Treasure Coast Chapter Awards Banquet, "The Engineering Student of the 21st Century," Port St. Lucie, April 30, 2002.

Invited Speaker, South Florida Water Management District – Science Honor Society Chapter Meeting, "Design of the Lake Okeechobee Ecosystem Study Graphical User Interface," October 1998.

Invited Speaker, Florida Atlantic University Minority Student Services, "I Made It and So Can You", a motivational talk to two outreach programs in underprivileged and minority junior high school, 1992 and 1993.

Invited Lecturer, Florida Engineering Society, "A Review of Computer Science Concepts for the EIT Examination", 1990.

Invited Speaker, Palm Beach County Council of Teachers of Mathematics, "Quantitative Literacy: Integrating Statistics into the Mathematics Curriculum," 1985.

Invited Speaker, Palm Beach County Council of Teachers of Mathematics, "Teaching Advanced Placement Computer Science," 1984.

PhD Dissertations and Master Theses Supervision

PhD Dissertations Supervised to Completion:

- [2] PhD Candidate: Nelly Delessy-Gassant. Tentative Title: A Framework for Web Services Security, Department of Computer Science and Engineering, Florida Atlantic University.
- [1] PhD Dissertation: Gopal Raghavan, *Industrial Strength Formalization of Object-Oriented Real-Time System*, Department of Computer Science and Engineering, Florida Atlantic University, January 2000. ISBN: 0-599-64267-X.

PhD Dissertations Supervision in Progress:

- [2] PhD Candidate: Mauricio Sadicoff, Tentative Title: Security and Privacy Patterns, Department of Computer Science and Engineering, Florida Atlantic University.
- [1] PhD Candidate: Alvaro Escobar, Tentative Title: Location-Based Access Control Models, Department of Computer Science and Engineering, Florida Atlantic University.

Master Theses Supervised to Completion:

- [9] Master Thesis: Mauricio L. Sadicoff, *Information Hiding: Digital Watermarking Techniques*, Department of Computer Science and Engineering, Florida Atlantic University, May 2002.
- [8] Master Thesis: Lakshmi Thampi, *Analysis of Graphical User Interfaces designed for an Ecological Data System*, Department of Computer Science and Engineering, Florida Atlantic University, August 2000.
- [7] Master Thesis: Ilya Portnoy, Analysis Models and Implementation Issues for an Icon-Based Software Engineering Environment, Dept. of Computer Science and Engineering, Florida Atlantic University, May 1999.
- [6] Master Thesis: Qinxi Huang, A Framework for an Icon-Based Software Engineering Environment, Department of Computer Science and Engineering, Florida Atlantic University, May 1998.
- [5] Master Thesis: Monika Saksena, *The Notion of Aggregation*, Department of Computer Science and Engineering, Florida Atlantic University, May 1998.
- [4] Master Thesis: Malcolm Shroff, *Generating Formal Models from UML Class Diagrams*, Department of Computer Science and Engineering, Florida Atlantic University, December 1997.
- [3] Master Thesis: Hemanth K. Vijayanagaram, *Approaches to Object/Relational Database Systems*, Department of Computer Science and Engineering, Florida Atlantic U., Dec.1996. Co-chair M. Solomon
- [2] Master Thesis: Sergio L. Lostal, *Software Development for Ecological Data Systems*. Department of Computer Science and Engineering, Florida Atlantic University, December 1996. Co-chair M. Solomon.
- [1] Master Thesis: Kai Jin, Asynchronous Distributed Algorithms for Multi-Agent Supporting Systems. Department of Computer Science and Engineering, Florida Atlantic University, April 1996.

Master Theses Supervision in Progress:

- [2] Master Thesis: David Collodi, *A Bipedal 3-D Interface*, Department of Computer Science and Engineering, Florida Atlantic University.
- [1] Master Thesis: Sai Babu Dara, An Intelligent Interface for the Lake Okeechobee Ecosystem Data, Department of Computer Science and Engineering, Florida Atlantic University.