

Leonel Lagos, Ph.D., PMP®

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Professional Preparation

2007 Ph.D., Environmental Engineering, Florida International University
1996 M.S., Mechanical Engineering, Florida International University
1991 B.S., Aerospace Engineering; University of Florida

Certifications/Lisences

Certified Project Management Professional (PMP), #430448

Research and Professional Experience

- 1996 – Present; Applied Research Center (ARC), Florida International University (FIU), Miami, Florida
- Director of Research
 - Principal Investigator (PI), Department of Energy (DOE)-FIU Cooperative Agreement
 - Principal Investigator (PI), Department of Defense CyberSpace & STEM Workforce Program
 - Program Director, Department of Energy Science & Technology Workforce Development Initiative
 - Graduate Faculty, Dept. of Civil & Environmental Engineering at Florida International University
 - Assistant Director, Water & Environment Group
 - Principal Investigator (PI), Jacobs Engineering Agreement
 - Principal Investigator (PI), SAIC/NASA STEM Summer Internship Program
 - Principal Investigator (PI), Randolph International Inc.
 - Principal Investigator (PI), Federal Aviation Administration (FAA)-FIU Cooperative Agreement
 - Technical Subject Matter Expert/Consulting Engineer, DOE Large Scale Demonstration and Deployment Projects (LSDDPs)
 - Group Leader, Technology & Development Group
 - Field/Test Engineer, FIU-ARC's MIP-DC and On-Line Floor Decontamination technologies
 - Lead Test Engineer, DOE's Office of Science and Technology (EM50) Large Scale Demonstration Projects

Publications – Peer Reviewed Journals

1. **Leonel E. Lagos**, Peggy Shoffner, (Florida Intl Univ), Sam Maggio (Intl Climbing Machine), “Remote Platform for the Performance of Deactivation and Decommissioning Tasks,” American Nuclear Society Annual Meeting, Reno, Nevada, 2014.
2. Peggy Shoffner, **Leonel E. Lagos**, (Florida Intl Univ), Sam Maggio (Intl Climbing Machine), “Application and Removal of Strippable Coatings via Remote Platform,” Waste Management Symposia Phoenix, AZ, 2013.
3. **Leonel E. Lagos**, Amer Awwad, Jose Varona, Jose Rivera, “Sensor Network Demonstration for Monitoring Decommissioned Nuclear Facilities,” Waste Management Symposia Phoenix, AZ, 2013.
4. **Leonel E. Lagos**, “Training and Mentoring the Next Generation of Scientists and Engineers to Secure Continuity and Successes of the US DOE's Environmental Remediation Efforts,” Waste Management Symposia Phoenix, AZ, 2013.
5. **Leonel E. Lagos**, Peggy Shoffner, (Florida Intl Univ), Sam Maggio, Blake Fall-Conroy (Intl Climbing Machine), “Development of a Remote Platform for Remote Removal of Strippable Coatings-A Feasibility Study,” American Nuclear Society Annual Meeting, Chicago, IL, 2012.
6. **L. Lagos**, Florida International University, ISD Meso-Scale Test Bed Shared Data Network Demonstration Report, Technology Demonstration Report, December 2012.
7. **L. Lagos**, Florida International University and International Climbing Machine Inc., Feasibility Study for the Remote Controlled Removal of Strippable Coatings with the ICM Climbing Machine Technology, April 2012.
8. **L. Lagos**, Florida International University and International Climbing Machine Inc., Phase II Remote

- Removal of Strippable Coatings using Robotic Platform, Technical Report, December 2012.
9. **L. Lagos**, P. Shoffner (FIU), S. Maggio (ICM), “D&D Toolbox Project – Florida International University Technology Demonstration of Decontamination Gel and Strippable Coatings Applied Via Remote Sprayer Platform,” Waste Management Symposia, Phoenix, AZ, 2011.
 10. Mario Vargas, William Mendez, **Leonel E. Lagos**, Randall Lind, Peter Lloyd, John Rowe, Mark W. Noakes and François Pin, “Remote System for Characterizing, Monitoring and Inspecting the Inside of Contaminated Nuclear Stacks,” Waste Management Symposia, February 28 – March 3, Phoenix, AZ, 2011.

Patents

Integrated Decontamination and Characterization System and Method (No.US6, 447,366 BI)
 Integrated Decontamination and Characterization System and Method (European Patent)

Synergistic Activities

- Steering Committee member Indian River State College – Regional Center for Nuclear Education & Training
- Executive Committee member of the American Nuclear Society’s Robotics and Remote Systems Division
- Treasurer - American Nuclear Society’s Robotics and Remote Systems Division
- Member Project Management Institute (PMI)
- Member American Society of Mechanical Engineers (ASME)
- Member, American Nuclear Society (ANS)
- Program Advisory Committee (PAC) member for the Waste Management Symposia Inc.
- Chairperson for FIU-ARC’s Graduate Students Steering Committee, 2007-Present
- Conference organizer and panel member, International Conference on Environmental Remediation and Radioactive Waste Management (ICEM)
- Chairperson for DOE Fellows Selection Committee, FIU-ARC, 2007-Present
- Member of DOE’s Energy Facilities Contractors Group (an advisory group supporting DOE’s environmental restoration mission)
- Group member of DOE’s Energy Facilities Contractors Group D&D and Facility Engineering subcommittee

Theses/Dissertations Advisor and Postgraduate Scholar Sponsors over the Last Five Years:

Ravi Gudavalli, Post Doctoral Fellow, FIU Applied Research Center
 Mehrnoosh Mahmoudi, Post Doctoral Fellow, FIU Applied Research Center
 Vasileios Anagnostopoulos, Post Doctoral Fellow, FIU Applied Research Center
 Hadi Fekrmandi, Post Doctoral Fellow, FIU Applied Research Center
 Hilary Emerson, Post Doctoral Fellow, FIU Applied Research Center
 Franco Yemine, Ph.D. candidate, Industrial Engineering, Pontificia Universidad Catolica de Chile
 Hansell Gonzalez, Ph.D candidate, Chemistry Department, Florida International University
 Ahmadreza Abbasi Baharanchi, Ph.D candidate, Mechanical and Materials Engineering, Florida Int. University
 Claudia Cardona, Ph.D candidate, Civil and Environmental Engineering, Florida International University
 Paula Sepulveda, Master thesis, Biomedical Engineering, Florida International University
 Robert Lapierre, Master thesis, Chemistry Department, Florida International University
 Jaime Mudrich, Master thesis, Mechanical and Materials Engineering, Florida International University
 Jose Matos, Master thesis, Mechanical and Materials Engineering, Florida International University
 Eric Inclan, Master thesis, Mechanical and Materials Engineering, Florida International University
 Elicek Delgado, Master thesis, Electrical and Computing Engineering, Florida International University
 Elsa Cabrejo, Master thesis, Civil and Environmental Engineering, Florida International University
 Melina Idarraga, Master thesis, Civil and Environmental Engineering, Florida International University
 Duriem Calderin, Master thesis, Biomedical Engineering, Florida International University
 Amaury Betancourt, Master thesis, Civil and Environmental Engineering, Florida International University
 Denny Carvajal, Master thesis, Biomedical Engineering, Florida International University