

DANIEL E. MEEROFF, Ph.D.



PERSONAL INFORMATION

Institutional Affiliation: Professor and Associate Chair
Florida Atlantic University, College of Engineering and Computer Science,
Department of Civil, Environmental & Geomatics Engineering

Director of the Laboratories for Engineered Environmental Solutions
(Lab.EES)

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Telephone: (561) 297-3099
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Website: <http://labees.civil.fau.edu>

Birthplace: Rochester, Minnesota, USA (June 1, 1973)

Languages: Fluent in English and Spanish

Education

Ph.D. in Civil Engineering, Environmental Engineering Emphasis
University of Miami, Coral Gables, FL (December 2001)

Master of Science in Civil Engineering, Environmental Engineering Emphasis
University of Miami, Coral Gables, FL (August 1997)

Bachelor of Science in Environmental Science
Florida Institute of Technology, Melbourne, FL (May 1995)

Faculty Honors Award recipient (awarded to the highest ranking graduating senior in the University at large, as *valedictorian*)

Areas of Specialization

- Environmental Engineering
- Green Building Infrastructure & Design
- Solid/Hazardous Waste Management
- Water Chemistry
- Pollution Prevention and Conservation
- Water and Wastewater Treatment
- Pollution Control Technologies
- Environmental Microbiology
- Water and Air Quality Control
- Alternative Fuels

Professional Licensure

Engineer Intern. *State of Florida Board of Professional Engineers.*

License #: 1100003721 (September 1998).

Undergraduate Research and Inquiry Highlights

- **Supervised 70 undergraduate students on 47 undergraduate research projects**
- **Supervised 616 undergraduate students on 153 capstone design projects**
- **Awarded \$77,848 for 12 internally funded research grants including:**
 - The first intercollege DTD Curriculum Grant: *“Expanding the Student-Centered Undergraduate Research Culture Across the Curriculum”*
 - 4 Undergraduate Research Grants (involving 8 undergraduate student researchers)
 - Assessment grant: *“Investigative Learning-Centered Assessment in Undergraduate Engineering Coursework”*
 - 2 Tech Fee grants to improve undergraduate research facilities
 - WAC Curriculum Development Grant *“Research, Creative and Scholarly Activities into the Undergraduate Curriculum”*
- **83% of Dr. Meeroff’s externally funded research grants (n=33) involve undergraduate researchers for a total of \$831,590.**
- **Authored 43 peer-reviewed research articles, 80 conference papers/posters, and 1 textbook with participation from undergraduate researchers**
- **Member, Undergraduate Research Curriculum Committee, 2015-Present**
- **Member, DTD Co-Curriculum Committee and Council of Undergraduate Research, 2012-Present**
- **Reviewer, Undergraduate Research Grants, 2012-Present**
- **DTD Faculty Liaison, College of Engineering and Computer Science, 2015**
- **John J. Guarrera Engineering Educator of the Year, The Engineer's Council, 2014**
- **FAU Distinguished Teacher of the Year, 2014**
- **Co-authored a peer-reviewed journal article on undergraduate research:**
 - D. Chamley-Wiik, K. Dunn, P. Heydet-Kirsch, M. Holman, D.E. Meeroff, and J. Peluso. (2014). "Scaffolding the development of student research skills for capstone experiences: A multi-disciplinary approach." *CUR Quarterly*, 34(4): 18-25.
- **Facilitator, co-leader, contributor, or participant in 7 Faculty Learning Communities related to undergraduate research**
- **Presenter or participant in 6 DTD Professional Development Workshops**
- **Quality Matters Seal of Recognition for eLearning, EGN2095-Engineering Chemistry, 2013**
- **NCEES Engineering Award \$25,000 Winner, Dania Beach Nanofiltration Plant Expansion, 2012**
- **Sloan-C Online Education Retention Strategies Teaching Certification, 2012**
- **5th Annual Florida Statewide Symposium: Engagement in Undergraduate Research, Orlando, FL, 2012**
- **FAU Excellence and Innovation in Undergraduate Teaching Award, 2011**
- **FAU College of Engineering and Computer Science, Excellence in Undergraduate Teaching Award Nominee, 2009 and 2010**
- **Writing Across the Curriculum Certification Training, 2010**
- **Assessment Training, 2010**
- **American Society of Engineering Educators, SE Section Conference, Memphis, TN, 2008**
- **FAU Researcher of the Year Award Nominee (Assistant Professor Level), 2006**
- **FAU College of Engineering Dean’s Award, 2004**
- **Distinguished Teacher of the Year Award Nominee, 2004, 2005**

Employment History

- **Professor with Tenure** (August 2014 – Present)
Florida Atlantic University, Dept. of Civil, Environmental & Geomatics Engineering, Boca Raton, FL.
- **Associate Chair of the Department** (October 2013 – Present)
Florida Atlantic University, Dept. of Civil, Environmental & Geomatics Engineering, Boca Raton, FL.
- **Associate Professor with Tenure** (August 2008 – Present)
Florida Atlantic University, Dept. of Civil, Environmental & Geomatics Engineering, Boca Raton, FL.
- **Assistant Professor** (August 2003 – July 2008)
Florida Atlantic University, Dept. of Civil Engineering, Boca Raton, FL.
- **Post-Doctoral Research Fellow** (Nov. 2001 – July 2003)
University of Miami, Dept. of Civil, Architectural & Environmental Engineering, Coral Gables, FL.
Studied inequities in water and wastewater coverage in Latin America and the Caribbean, and investigated in-situ groundwater remediation with chelating agents and recirculation wells using ultrasound and ultraviolet assisted reactions.
- **University Instructor** (Jan. 2001 – July 2003)
University of Miami, Dept. of Civil, Architectural & Environmental Engineering, Coral Gables, FL.
- **Operations Consultant** (Nov. 1999 – Dec. 2000)
Florida Governmental Utility Authority, Tallahassee, FL.
Prepared monthly and annual operations reports and Consumer Confidence Reports for thirteen (13) water and wastewater treatment utilities.
- **Engineering Consultant** (Feb. 2000 – May 2000)
Montgomery Watson, Inc., Sunrise, FL.
Developed and implemented a microbiological market survey to classify and determine cost data from laboratories that perform microbiological analyses on drinking water.
- **Research Fellow** (Aug. 1997 – Oct. 2001)
University of Miami, Dept. of Civil, Architectural & Environmental Engineering, Coral Gables, FL.
Investigated the effects of electron beam irradiation of wastewater biosolids for enhancement of anaerobic digestion, solids management, and bulking control, and supervised two undergraduate research students during method development for procedures to characterize and quantify biosolids parameters.
- **Research Assistant** (June 1995 – Aug. 1997)
University of Miami, Dept. of Civil, Architectural & Environmental Engineering, Coral Gables, FL.
Completed a validation study for a medical waste reduction management model supported by Florida Power and Light Company in conjunction with Columbia Hospitals. Developed and implemented a research plan to evaluate feasibility of pilot scale diatomaceous earth filtration and ultrafiltration modified for the removal of Orimulsion® from surface waters in a study supported by the U.S. Coast Guard Oil Pollution Research Grant Program. Performed duties for a teaching assistantship in CEN 541: Environmental Chemistry.

- **Undergraduate Research Chemist (Jan. 1993 – May 1995)**

Florida Institute of Technology, Melbourne, FL.

Conducted experimental research on the theoretical limits of strained aromatic ring structures.

- **Laboratory Research Intern (June – Aug. 1993)**

Harbor Branch Oceanographic Institution, Ft. Pierce, FL.

Performed EPA and SW series analyses for solid waste leachate, surface water, and groundwater samples as part of the Semi-Volatile Organic Analysis division using gas chromatography/mass spectrometry in the summer internship program.

Honors and Awards

- **DTD Faculty Liaison, College of Engineering and Computer Science, 2015**
- **John J. Guarrera Engineering Educator of the Year, The Engineer's Council, 2014**
- **FAU Distinguished Teacher of the Year, 2014**
- **Quality Matters Seal of Recognition for eLearning, EGN2095-Engineering Chemistry, 2013**
- **NCEES Engineering Award \$25,000 Winner, Dania Beach Nanofiltration Plant Expansion, 2012**
- **Florida Atlantic University Excellence and Innovation in Undergraduate Teaching Award, 2011**
- **FAU College of Engineering and Computer Science, Excellence in Undergraduate Teaching Award Nominee, 2009 and 2010**
- **Florida Tech Sports Hall of Fame Inductee, 2008**
- **Rail~volution 2007: Building Livable Communities with Transit Scholarship Winner \$475, 2007.**
- **FAU Researcher of the Year Award Nominee (Assistant Professor Level), 2006**
- **Florida Atlantic University College of Engineering Dean's Award, 2004**
- **Distinguished Teacher of the Year Award Nominee, 2004, 2005**
- **Florida Water Environment Association, Service Award, 2004, 2005, 2006, 2007**
- **University of Miami Distinguished Scholar Award, 2001**
- **WEF Student Paper Competition, Masters Category, 1998**
- **University of Miami Presidential Doctoral Research Fellowship, 1997, 1998**
- **University of Miami Outstanding Service Award, 1997, 1998**
- **Florida Tech Faculty Honors Award, 1995**
- **Florida Tech Outstanding Graduating Senior, 1995**
- **Florida Tech Distinguished Student Scholar, 1993, 1994, 1995**
- **Florida Tech Outstanding Academic Achievement, 1993, 1994, 1995**
- **Florida Tech Presidential Scholar, 1992, 1993, 1994, 1995**
- **Harbor Branch Oceanographic Institution, Summer Internship Award, 1993**
- **Florida Academic Scholar, 1992, 1993, 1994, 1995**
- **NCAA Division II National Soccer Champion, 1991**

Supervision of Curricular Undergraduate Research Capstone Design (2003 – Present)

Supervised 616 undergraduate students on 153 capstone design projects, as summarized by the following table.

Students	Project Title	Dates
[1] Daniela Alvarez, Gary Chin Sang, Yvenel Clermont, Luis Correa, Andres Merizalde	<i>“Optimal Engineering: New FAU Schmidt Center for Academic and Athletic Excellence”</i>	Spring 2015 – Fall 2015
[2] Denys Purdy, Charles Newberry, James Henn, Guangfeng , Raymond Peng, Stanley Merantus	<i>“Universal Design: North Boca Neighborhood Center Development”</i>	Spring 2015 – Fall 2015
[3] Kyle Telford, Jean Bernard Volcimus, Sylvain Estinvil, Gabriel Evens	<i>“Beacon Engineering Services and Technology: New College of Engineering and Computer Science Laboratory Annex”</i>	Spring 2015 – Fall 2015
[4] Juan Castillo, Jonathan Gil, Fabrice Lazarre, Gino Mora	<i>“CerebrusEngineering Inc.: Henderson High School Expansion”</i>	Spring 2015 – Fall 2015
[5] Jean-Simon Berube, Jose Canas-Olavarria, Lynda Manasse, Juan Valega, Enel Jean-Juste	<i>“Modern Engineering Technologies: North Boca Neighborhood Town Plaza and Grand Entrance”</i>	Spring 2015 – Fall 2015
[6] David Zimmerman, Clecio De Sa, Alyssa Dalloo, Jordan Rodriguez	<i>“Resolute Design Group: A.D. Henderson School Expansion”</i>	Spring 2015 – Fall 2015
[7] James Philippe, Vorawut Pitayanon, Diana Eckendahl, Ryan Bays, Justin Dacey	<i>“Spartan Engineering Solutions: Athletics Building”</i>	Spring 2015 – Fall 2015
[8] Serge Bethomieux, Natan De Leon, Stephen Hey, Gertha J. Wesh	<i>“Teckna Engineering: FAU Communications Tower Building”</i>	Fall 2014 – Spring 2015
[9] Daniel Gonzalez Moya, Jonathan Murphy, Hanane Akif, Adam Sanders	<i>“Expresstech Design: Boynton Beach Police Department Building Design”</i>	Fall 2014 – Spring 2015
[10] Mohammad Hachmi, Ashley Khan, Brandon Shaw, Kaitlin Phillips	<i>“Hybrid Engineering Solutions: Building a New Tower for the FAU Communications Department”</i>	Fall 2014 – Spring 2015
[11] Garrett Goldberg, Rene Kelly, Lawrence Alewine, Jerry Berkheimer, Lynda Manasse	<i>“Green Pathways Engineering: Coastal Resiliency Center in Dania Beach”</i>	Fall 2014 – Spring 2015
[12] Edward Reyes, Eric Luipersbeck, Breann Cornwell, Roy Carvatta, Salim Shehadeh	<i>“Spearhead Engineering: New FAU Communications Department Building”</i>	Fall 2014 – Spring 2015
[13] Danyl Noel, Eduardo Estrada, Michael VanZee, Jimeia Roberts	<i>“Magnitude Engineering Group: Boynton Beach Police Department Design”</i>	Fall 2014 – Spring 2015
[14] Kevin Menting, Charles Jones, Nathan Reaux, Dylan Trotsek, Paul Keys	<i>“Integrated Engineering Solutions: Coastal Resiliency Center in Dania Beach”</i>	Fall 2014 – Spring 2015
[15] Ricardo Cocconcelli, Cassidy Yerkes, Logan Parker, Raheel Hanif	<i>“Eikos Engineering: Wildflower Park Site Improvements”</i>	Fall 2014 – Spring 2015
[16] Lukas Simons, David Raucci, Patricia Forbicini, Geovanny Cisneros	<i>“Eco-Integration: Wildflower Park Development”</i>	Fall 2014 – Spring 2015
[17] Joel Brownsey, Fernando Lascano, Chad Maraj, Patrick Narcisse	<i>“Apex Engineering Solutions: Silver Lakes Middle School Addition and Improvements”</i>	Spring 2014 – Fall 2014

Students	Project Title	Dates
[18] Daniel Haik, Amar Patel, Eduardo Estrada, Ralph Numa, Serge Berthomieux	<i>"Avant-Garde Engineering: Boca Raton Pier Study"</i>	Spring 2014 – Fall 2014
[19] Claude Auguste, Neil Coffman, Matthew Iles, Donald Rabener, Jairo Razo	<i>"Iconic Engineering Solutions: Boca Raton City Pier Project"</i>	Spring 2014 – Fall 2014
[20] Maxime Monestine, Kerly Mora, Kaitlin Phillips, Jesse Rizzi	<i>"Platinum Standard Engineering: Silver Lakes Middle School Addition"</i>	Spring 2014 – Fall 2014
[21] Alex Duko, Ivan Gerasimovich, Aline Moraes, Roland Rodriguez	<i>"Dynamic Vision Engineering: New Boca Raton Pier at Red Reef Park"</i>	Spring 2014 – Fall 2014
[22] Sonia Angel, Fernando Guzman, Daniel Pierre, Oscar Cuevas, John Gentile	<i>"Structural Coast Designs: New City Governmental Campus Design"</i>	Fall 2013 – Spring 2014
[23] Stephanie Boland, Wilson Oriantus, Jonathan Van Zee, Fatih Caglayan	<i>"Refined Engineering: Wastewater Treatment Plant for Hallandale Beach, FL"</i>	Fall 2013 – Spring 2014
[24] Bryan Sousa, Sofia Quinones, Joel Jara, Renzo Martinat, Andres Merzalde	<i>"Neo Alliance Engineering: New Boca Raton City Hall Building Design"</i>	Fall 2013 – Spring 2014
[25] David Cowan, Blake Mckinney, Michael Fitzpatrick, Mateo Duenas	<i>"Paradigm Shift Engineering: Design of an Assisted Living Facility on the FAU Campus"</i>	Fall 2013 – Spring 2014
[26] Allison Glunt, Ian Anderson, Eduardo Duran , Ralph Cosme	<i>"Sustainably Engineered Living Communities: FAU Assisted Living Facility for Students with Autism Spectrum Disorder"</i>	Fall 2013 – Spring 2014
[27] Charles Long, Michael Van Zee, Ralph Numa, Reyson Condori	<i>"Clear Vision Engineering: Boca Raton City Hall Building"</i>	Fall 2013 – Spring 2014
[28] Jospheh Lakner, Matt May, Jose Cruz, Christine Lyons	<i>"Forward Engineering Applications: Hallandale Beach Wastewater Reuse Plant Design"</i>	Fall 2013 – Spring 2014
[29] Alec Sandy Muñoz, Cintia Hoffmann, Michael Wood, Wilord Metellus	<i>"Environmentally Evolved Engineering: New Spanish River Park Design"</i>	Spring 2013 – Fall 2013
[30] Claudio Costa II, Cleevens Guerrier, Mike Doyle, Nieves Perez Bezu, Pollop Phonpornwithoon	<i>"S.I.S. Engineering: Design of Dania Beach Wastewater Treatment and Groundwater Recharge Facility"</i>	Spring 2013 – Fall 2013
[31] Megan Looby, Andrew Dady, Antoine Elasmr, Jean Joseph	<i>"Peerless Precision Design: Spanish River Recreational Facility"</i>	Spring 2013 – Fall 2013
[32] Gert Badenhorst, Daniel Caycho, Diana Serrano, Eric Toebe	<i>"Aqueous Engineering Solutions: Dania Beach Wastewater Treatment Plant"</i>	Spring 2013 – Fall 2013
[33] John Iravani (PM), Joey Gerum, Reyson Condori, Ralph Numa	<i>"United Professional Consulting: Design of Spanish River Recreational Center"</i>	Spring 2013 – Fall 2013
[34] Marcello Ferri, Mia Galicki, Andres Salzberger, Jimmy Vilce	<i>"Verde Construction Engineering: Hillsboro El Rio Park Expansion Project"</i>	Spring 2013 – Fall 2013
[35] Steven Bushouse, Jose Lopez, Shaughn Miller, Raymond Urias	<i>"ACE: New Hillsboro El Rio Park"</i>	Spring 2013 – Fall 2013
[36] Saul Trujillo and Andre Acosta	<i>"Green Leaf Engineering and Design's New PBI Airport Travel Plaza"</i>	Fall 2012 – Spring 2013
[37] Diogo Carvalho, Gary Vargas, Dianne Phillips, Walid Hamad	<i>"Infinity Consultants' West Palm Beach Airport Travel Plaza"</i>	Fall 2012 – Spring 2013

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[38] Richard Neet, Jennifer Contreras, Sergio Martinez, Lynda Cadet	<i>"Green Horizons' Palm Beach International Airport Travel Plaza"</i>	Fall 2012 – Spring 2013
[39] Richard Mejia, Yohana Henao, Kalynina Queiroz, Podchara Supupramai	<i>"Crescent Engineering's New Broward County School Board Middle School"</i>	Fall 2012 – Spring 2013
[40] Allie Kiever, Cloyd Jack, David Barrera, Roberto Bustamante	<i>"Viable Engineering Solutions' Middle School for Broward County"</i>	Fall 2012 – Spring 2013
[41] Toral Shah, Fernando Martinez, Yenny Soca, Paula Viala	<i>"Groundbreaking Engineering's Broward County Middle School "</i>	Fall 2012 – Spring 2013
[42] Jayson Harrison, Urszula Debiec, Carlos Nava, Keyla Lopez	<i>"Onpoint Engineering's FAU Biomedical Building Phase 2"</i>	Fall 2012 – Spring 2013
[43] Travis Douglas, Antwayne Dowdie, Sara Beshara, Andre Montalvo	<i>"iGlobal Engineering's New FAU Biomedical Building"</i>	Fall 2012 – Spring 2013
[44] Jessica Smith, Steven Richards, Daniel Harper, Shane Grabski	<i>"Precision Planning and Design: Downtown Fort Lauderdale Commuter Train Station at FEC Corridor"</i>	Spring 2012 – Fall 2012
[45] Joseph Simhon, Oscar Torrens, Chezare Palacios, Paulina Osypka	<i>"Engenious Designs: Fort Lauderdale FEC Railway Station"</i>	Spring 2012 – Fall 2012
[46] Eric Muñoz, Saribel Garcia, Jordan Sessa, Juan Contreras	<i>"Frontier Engineering: West Palm Beach FEC Commuter Rail Station"</i>	Spring 2012 – Fall 2012
[47] Kaitlin Timm, Maurizio Benedetti, Evens Laroque, Miguel Rojas	<i>"Transcendental Engineering: FEC Train Station in Downtown West Palm Beach"</i>	Spring 2012 – Fall 2012
[48] Alexander Chinnery, Brian Goumas, Olivia Bonilla, Yaser Qureshi	<i>"Horizon Engineering: Jupiter/FAU FEC Commuter Train Station"</i>	Spring 2012 – Fall 2012
[49] Bilal Assaad, Brandon Badoo, Diana Correa, Jason Zeitler	<i>"Inception Designs: Jupiter FEC Railroad Station"</i>	Spring 2012 – Fall 2012
[50] Robert Barrett, Robert Eustice, Saul Trujillo	<i>"Gold Standard Designs: Boca Raton Airport Authority"</i>	Spring 2012 – Fall 2012
[51] Ron Paul	<i>"Eco-Regulatory Engineering: Boca Raton Airport Authority Building"</i>	Spring 2012 – Fall 2012
[52] Sean Bukovich, Kyle Burg, Milla Pierce, Adam Schmidt	<i>"Green-o-vation: Monorail Station at FEC RR Station Camino Real"</i>	Fall 2011– Spring 2012
[53] Arnold Para, Enlise Michaels, Chase Dickinson, Celyn Dezmain	<i>"Prestige Engineering: Beach Monorail Station Development"</i>	Fall 2011– Spring 2012
[54] Janette Oliveros, Andrew Malvetti, Kevin Young	<i>"Magnum Opus: FAU Monorail Station"</i>	Fall 2011– Spring 2012
[55] Mario Gimma, Enisio Dos Santos Jr, Hamzah Riaz, Phillip Quinn	<i>"New Heights: Boca Town Center Mall Monorail Station"</i>	Fall 2011– Spring 2012
[56] Anusha Chowdhury, David Rundio, Frank Youngman	<i>"Catalyst Engineering: Tri-Rail Monorail Station"</i>	Fall 2011– Spring 2012
[57] Michael Cartossa, Carlos Hoyos, Nathalie Rodriguez, Stephen Williams	<i>"East Coast Engineering: Mizner Park Monorail Station Development"</i>	Fall 2011– Spring 2012
[58] Dasaev Estime, Zairo Rey, Jaime Carry Baron, Adam Coon	<i>"Lifetime Engineering: Boca Raton Hospital Monorail Station"</i>	Fall 2011– Spring 2012
[59] Noel Rodriguez, Daniel Olivar, Guedna Desir, Joseph Rodriguez	<i>"Vertex Engineering Solutions: New Terminal at Fort Lauderdale/Hollywood International Airport"</i>	Spring 2011 – Fall 2011

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[60] Joseph Clark, Henry Rand, Zubeda Bentley, Meba Solomon	<i>"Ecolutions: Engineering Building Phase 2"</i>	Spring 2011 – Fall 2011
[61] Marckley Etienne, Naim Mohammed, Celestino Martinez, Won Choi	<i>"Mondevert Engineering: Pump Station Project"</i>	Spring 2011 – Fall 2011
[62] Sina Ebrahimi, Ruben Frenel, Andrea Carpenter, Benedict Barrett	<i>"Visionary Designs: New Engineering Building"</i>	Spring 2011 – Fall 2011
[63] Brandon Fleming, Renzo Mosca, Xairo Rey, Erek White	<i>"Urban Design Solutions: Fort Lauderdale International Airport Terminal Expansion"</i>	Spring 2011 – Fall 2011
[64] Ahmad Rahman, Carlos Velasquez, Jehole Auguste, Mike Giani	<i>"Empire State Engineering: Miami-Dade Pump Station for Adaptation to Climate Change"</i>	Spring 2011 – Fall 2011
[65] Carla Almeida, Sean Nemser, Duong Yong, William McDonald, Cacimar Rivera	<i>"Fenix Engineering: Dania Beach Hotel Project"</i>	Fall 2010– Spring 2011
[66] Catie Kiever, Kaamil Tayyab, Oscar Suarez, Timothy Rybas	<i>"Evergreen Engineering: Dania Beach Hotel"</i>	Fall 2010– Spring 2011
[67] Alben Brandt, Andre Bigatao, Cecilia Espejo, Luis Calderon	<i>"Nova Era Engineering: Entertainment Facility in Dania Beach, FL"</i>	Fall 2010– Spring 2011
[68] Stephanie Ridener, Aren Griffin, Fernando Pleitez, Ion Mavrodin	<i>"Ingenium Engineering: Dania Beach Entertainment Complex"</i>	Fall 2010– Spring 2011
[69] Patrick Ceres, Kyle Cheerangie, Stacy Golden, Mary Hayden	<i>"Agora Engineering: Dania Beach Mixed Use Facility"</i>	Fall 2010– Spring 2011
[70] Clifford Hippolyte, George Santos, Sam Ciminello, Thomas Romah	<i>"Engineering Design Solutions: Dania Beach Hotel Project"</i>	Fall 2010– Spring 2011
[71] Tiffany Stanton, Cody Asher, Husayn El Sharif, Francisco Martinez	<i>"Paragon: Mixed Use Facility Dania Beach, FL"</i>	Fall 2010– Spring 2011
[72] Fawn Kibria, Alvaro Gallettebeitia, William McDonald, Toni Lopez	<i>"Epic: Train Station"</i>	Spring 2010 – Fall 2010
[73] Victor Rosas, David Mairena, Richard Reichenbach, Larry Lammers	<i>"Archimedes: Public Safety Complex"</i>	Spring 2010 – Fall 2010
[74] Mary Anise, Patricia Coker, David Mondragon, Luis Pinzon	<i>"Pure Elements: Mixed Use Facility"</i>	Spring 2010 – Fall 2010
[75] Catie Kiever, Carlos Tijerino, Cacimar Rivera, Lou Dieudonne	<i>"Elements Engineering: Public Safety Complex"</i>	Spring 2010 – Fall 2010
[76] Stephanie Battistini, Borja Gallettebeitia, Matthew Holland, Andrew Wu	<i>"ISES: Public Safety Complex"</i>	Spring 2010 – Fall 2010
[77] Carla Almeida, Jose Santacruz, Cristina Suriel, Stanley Thelisma	<i>"ECO Solution: Train Station"</i>	Spring 2010 – Fall 2010
[78] Joseph Ahmad, Lisner Baptiste, Jean-Baptiste Henry, Benezir Palomo, Richard Douglas	<i>"Zenith: Mixed Use Facility"</i>	Spring 2010 – Fall 2010
[79] Jillian Gastright, Dewey L.eBlanc, Amit Singh, Cyithu Maung	<i>"Atlas Consulting and Design"</i>	Fall 2009 – Spring 2010
[80] Alexandra Johnsen, Carmin Dorelian, Jonathan Glenn, Christopher Chanona	<i>"Atlantic Coastal Engineering Consultants"</i>	Fall 2009 – Spring 2010

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[81] Jennifer Medina, Jordan Maniscalco, Tom Hatcher, Wing Yan	<i>"Compass Engineering Firm"</i>	Fall 2009 – Spring 2010
[82] Anthony Ruffini, Ahmad Kaik, Augustus Cicala, Tyhsen Yager	<i>"Osiris Engineering"</i>	Fall 2009 – Spring 2010
[83] Laura Hover, Zach Thompson, Chaz Goblisch, Hussein Musleh	<i>"EcoTex Engineering"</i>	Fall 2009 – Spring 2010
[84] Gayane Acopian, Jason Neal, Julian Guevara, Andrew Mitchell	<i>"Paradigm Engineering"</i>	Fall 2009 – Spring 2010
[85] Tony Chu, Gregory Corning, Roody Numa, Claudia Olarte	<i>"Eclectic Engineering, Inc.: Phase 2 Engineering Laboratory Building Project"</i>	Spring 2009 – Fall 2009
[86] Jeremy Davis, Lilian Gonzalez, Alex Lima-Arie, Andre MacBarnette	<i>"Future Engineering: LEED-Gold Broward County Regional WWTP Energy Management Project"</i>	Spring 2009 – Fall 2009
[87] Christopher Beale, Richard Fesdijan, Lucrece Riche, Laura Simons	<i>"Terra Design Engineers: Broward County North Regional WWTP Project"</i>	Spring 2009 – Fall 2009
[88] Rohan Brown, Christopher Hawn, Merary Pascual, Kevin Soltau	<i>"Broad Spectrum Engineering: LEED-Gold Engineering Building, Phase 2"</i>	Spring 2009 – Fall 2009
[89] Ricardo Augustin, Manuel Cuetara, Jesse Davis, Anushi Obeysekera	<i>"Global Innovative Construction Company: Dania Beach Mixed Use Facility"</i>	Spring 2009 – Fall 2009
[90] Yves-Stanley Delmas, Stephan Mack, Dominique Simeus, Amanda Chadwick	<i>"Eco-Prospective Engineering: Dania Beach Mixed Use Facility"</i>	Spring 2009 – Fall 2009
[91] Marjorie Hilaire, Juan Palacio, Anam Usman, Geoffrey Van Allen	<i>"Sky Engineering: Redevelopment of Dania Beach Library"</i>	Fall 2008 – Spring 2009
[92] Elie Boueri, Steve Chery, Samuel St. Hilaire, Kathleen Wright	<i>"Eco-Innovative Engineering: Dania Beach Library"</i>	Fall 2008 – Spring 2009
[93] Luke Gonsalves, Angus Jordan, Michael Joseph, Silvia Ortega	<i>"First Rate Engineering: FAU Wellness Center"</i>	Fall 2008 – Spring 2009
[94] Franco Custodio, Juliana Jaramillo, Junior Senat, Oscar Zalana	<i>"Altavista Engineering: Developing a LEED-Gold Certified Recreation and Wellness Center at FAU"</i>	Fall 2008 – Spring 2009
[95] Bahram Abidian, Natasha Bethel, Reeve Sainvil, William Thomas	<i>"Green Coast Engineering: Florida Atlantic University Alumni Center Development"</i>	Fall 2008 – Spring 2009
[96] Lupe Coral, Jessy Jean, Ernschry Jules, Frantz LaFontant, Giuseppe Van Oordt	<i>"Diverse Engineering Consultants: FAU LEED-Gold Alumni Center Project"</i>	Fall 2008 – Spring 2009
[97] Cory Blake, Linda Hess, Paula Fonseca, Luis Itturalde	<i>"Prime Design: Green Water Plant at Dania Beach, FL"</i>	Spring 2008 – Fall 2008
[98] Muhammad Khan, Troy Bishop, Marque Davis, Amit Patel, John Neff	<i>"Global Solutions Inc.: PPEC Building Renovation"</i>	Spring 2008 – Fall 2008
[99] Mustafa Albassam, Rodrigo Ledezma, Edson Corredor, Jean-Baptiste Edouard	<i>"Babilón Engineering: New Arts & Letters Building at FAU"</i>	Spring 2008 – Fall 2008
[100] George Beck, Nicolas Boggio, Lina Camacho, Christopher Masters	<i>"2BCM: Green Water Treatment Plant Expansion at Dania Beach, FL"</i>	Spring 2008 – Fall 2008
[101] Ricardo Brown, William Degnan, Wali Naemi, Xiao Liang	<i>"Galactic Engineering Technology:PPEC Tender Care Facility"</i>	Spring 2008 – Fall 2008

Students	Project Title	Dates
[102] Mariella Conde, Frank Wirz, Andrea Vargas, Thuc Mai, Carlos Colmenares	<i>"Empire Engineering: New Arts and Letters Teaching Facility"</i>	Spring 2008 – Fall 2008
[103] Seth Morla, Juan Ramirez, Keith Erdman, Steven Wong	<i>"JEMS Engineering: Innovation Village Apartments"</i>	Spring 2008 – Fall 2008
[104] Mark Chervony, Lacinda Jacobs, Jean Max Lilavois, Dinyar Sharifabad	<i>"Eikon Engineering and Development: FAU Innovation Village Apartments"</i>	Spring 2008 – Fall 2008
[105] Megan Bailey-Hazell, Barthelemy Metelus, Scott Parr, Constantin Bortes	<i>"International Building Partners: Pine Jog Out-Building Rehabilitation"</i>	Fall 2007 – Spring 2008
[106] Scott Ornitz, Anita Kliment, Alex Rivera, July Randt, Matthew Handall	<i>"Emerald Design Group: FAU/USGS Joint Use Building"</i>	Fall 2007 – Spring 2008
[107] Taylor Blake, David Schweiger, Laura Crosbie, Maryori Velasco, Irene Belgrave	<i>"Athena Engineering: Boca Raton Community Teaching Hospital Design"</i>	Fall 2007 – Spring 2008
[108] Andrea Ramudo, Trevor Rosecrans, Thomas Virgin, Ernschry Jules, David Antoine	<i>"Second Nature Engineering: Pine Jog Environmental Center Design"</i>	Fall 2007 – Spring 2008
[109] Luis Santana, Youry Demothenes, Marcenel Joseph, Michael Riemer, Jean Destin	<i>Advanced Engineering Solutions: FAU Teaching Hospital Design"</i>	Fall 2007 – Spring 2008
[110] Owen Riggs, Samuel Nuñez, Randal Bartlett, Frantz LaFontant, Kristine Le	<i>"Essential Engineering: Design of FAU/USGS Joint Use Facility Davie Campus"</i>	Fall 2007 – Spring 2008
[111] Mohammad Ali, Joaquin Pire-Schmidt, Daniel Grijalba, Nadia Zeitinger	<i>"USGBC Emerging Green Builders: Virginia Key Museum"</i>	Spring 2007 – Fall 2007
[112] Omar Khan, Stephen Peters, Jonah Weaver	<i>"Green Dormitory Building at FAU"</i>	Spring 2007 – Fall 2007
[113] Giancarlo Benedetti, John Fishburn, Marcello D'Andrea, Juan Moreno	<i>"Virginia Key Beach Park Green Design"</i>	Spring 2007 – Fall 2007
[114] Jaime Agudelo, Carlo Pierre, Brian Tiehen, Gary Wheeler	<i>"Student Housing at FAU Using Green Building Practices"</i>	Spring 2007 – Fall 2007
[115] Eric Gonitzke, Jill Dobashi, Helen Nalwanga	<i>"Green Rehabilitation of the Miami Beach Patrol Headquarters"</i>	Fall 2006 – Spring 2007
[116] Jamie Fraser, Eva Campello, Robert Grubel, Nirav Patel	<i>"Miami Beach Patrol Headquarters"</i>	Fall 2006 – Spring 2007
[117] Jason Trujillo, Suat Navarro, Ben Hayner, Richard Crow	<i>"Green Design of the Fairwinds Hotel"</i>	Fall 2006 – Spring 2007
[118] Michael Dalickas, Rebecca Gates, Navon Wallace, Jorge Novoa	<i>"Green Building Design for the Fairwinds Hotel"</i>	Fall 2006 – Spring 2007
[119] Regina Argumedo, Travis Iverson, Nigel McGregor	<i>"RTN: Multi-Disciplinary Research Village"</i>	Spring 2006 – Fall 2006
[120] Michael Fesdijan, Jean Felix, Diana Rivas, Malherbe Osias	<i>"AECG: FAU Heritage: T-Building Site and its Green Changes"</i>	Spring 2006 – Fall 2006
[121] Carlos Tijerino, Shauna Sproul, Peter Megala, Jonathan Reinsvold	<i>"PCS&J: T-Building Restoration"</i>	Spring 2006 – Fall 2006
[122] José Theiler, Abbas Abady, Joselito Del Valle	<i>"Creative Solutions, Inc.: Pine Jog Education Center"</i>	Fall 2005 – Spring 2006

Students	Project Title	Dates
[123] Ryan Wheeler, Aaron Watt, Hetal Patel, Santiago Hincapie	<i>"Global Eng. Consultants: Building Green Initiative: An Elementary School Site at the Pine Jog Environmental Education Center"</i>	Fall 2005 – Spring 2006
[124] Jeannine Offutt, Concepcion Hayman, Jennifer Fought, Hayes Templeton	<i>"Green World Engineering: Miami Environmental Outreach Laboratory"</i>	Fall 2005 – Spring 2006
[125] Charles Bartlett, Akash Bissoon, Tammy Martin, Victor Badal	<i>"CAT V: Redesign of the Visual Arts Center Site"</i>	Summer 2005 – Fall 2005
[126] Daniel Payne, Dieutel Francois, Parastoo Sanjari, Eli Brossell, Marcos Souza	<i>"Mangrove Engineering: Transformations Project: Rethinking the Visual Arts Building"</i>	Summer 2005 – Fall 2005
[127] Tinu Peña, Mercedes Baccinelli, Lisa Bernier, Victor Gutierrez, Earl Henry	<i>"MTG: A.D. Henderson University School Improvements"</i>	Summer 2005 – Fall 2005
[128] Juan Bolivar, Gil Samson, Riti Waghay, Scott Thurman	<i>"Smart Solutions Engineering, Inc.: Transformations of the Visual Arts Center, FAU, Boca Raton, FL"</i>	Summer 2005 – Fall 2005
[129] Shawn Bunch, Alex Correa, Matt Griffin, Ada Ortiz, Cassie Piché	<i>"Synergy Engineering: A.D. Henderson School Classroom Addition"</i>	Summer 2005 – Fall 2005
[130] Yvel Rocher, Eli Brossell, Victor Gutierrez, Kristine Le, Scott Thurman	<i>"Project D: Upgrading the Royal Lakes WWTP in Jacksonville, FL using Sequencing Batch Reactor Technology"</i>	Spring 2005
[131] Ruth Haggerty, Chuck Barlett, Jesse Del Valle, Tinu Peña	<i>"Group C: Converting Royal Lakes WWTP into a Reclaimed Water Facility"</i>	Spring 2005
[132] Petersen Benjamin, Juan Bolivar, Tammy Martin, Riti Waghay, Abbas Abady	<i>"JRPAT Inc.: Feasibility of Upgrading JEA Royal Lakes WWTP to Meet TMDL Criteria Using Membrane Bioreactors"</i>	Spring 2005
[133] Monica Morandi, Concepcion Hayman, Marcos Souza, Jessy Jean, Shawn Bunch	<i>"Project E: Tuscaloosa, Alabama Emergency Water Treatment"</i>	Spring 2005
[134] Leonardo DoCanto, Victor Badal, Alex Correa, Ryan Wheeler, Daniel Payne	<i>"Boto Environmental: Phasing Out Royal Lakes WWTP"</i>	Spring 2005
[135] Jean Malvoisin, Akash Bissoon, Gil Samson, Dieutel Francois, Jeannine Offutt	<i>"Team F: Emergency Water Treatment Project"</i>	Spring 2005
[136] Ruth Haggerty, Leonardo DoCanto, Khant Myat, Monica Morandi, Denise Barros	<i>"Precision Design: New Green Engineering Building"</i>	Fall 2004 – Spring 2005
[137] Seneca House, Jason Debrincat, Rick Handfield, Henry Johnston	<i>"JDH²: Green Engineering Building"</i>	Fall 2004 – Spring 2005
[138] Petersen Benjamin, Vilma Caballero, Amar Persaud, Heidi Von Korff	<i>"Blue Wave Eng. Inc.: College of Engineering Green Building Design"</i>	Fall 2004 – Spring 2005
[139] Yvel Rocher, Kenzot Jasmin, Alan Mrvica, Jean Malvoisin	<i>"Beta Consulting & Engineering: New College of Engineering Green Building"</i>	Fall 2004 – Spring 2005
[140] Jane Gao, Ron Benson, Sean Frazer, Ashley Barr	<i>"JARS Inc.: Green Engineering Building Design"</i>	Fall 2004 – Spring 2005

Students	Project Title	Dates
[141] Ashley Barr, Sean Frazer, Kenzot Jasmin, Kristy Potgieter	<i>"Project A: Phasing-Out Royal Lakes WWTP"</i>	Fall 2004
[142] Denise Barros, Richard Handfield, Amar Persaud, Mauricio Pico	<i>"Group 2: Converting the Royal Lakes WWTP to a Reuse Facility"</i>	Fall 2004
[143] Ron Benson, Jane Gao, Seneca House, Parastoo Sanjari	<i>"Project C: JEA Royal Lakes WWTP"</i>	Fall 2004
[144] Felipe Pulido, Mauricio Pico, Evan Kennedy, Kristy Potgieter	<i>"K.P.³: Blue Lake Master Plan"</i>	Summer 2004 – Fall 2004 (Evaluation of Final Design Only)
[145] Vilma Caballero, Jason Debrincat, Milot Emile, Jean Jeanty, Adriana Toro	<i>"Team A: Anaerobic Digestion System for ECRWRF, City of West Palm, Florida"</i>	Spring 2004
[146] Olive Henry, Henry Johnston, Evan Kennedy, Felipe Pulido, Dexter Whaley	<i>"Team B: Autothermal Thermophilic Aerobic Digestion Design for East Central Regional Water Reclamation Facility"</i>	Spring 2004
[147] Matthew Maxey, Jennifer Magnus, Julian Deleon, Tazmi Shaw, Mike Gendusio, Bhavika Patel	<i>"IES: Direct Access I-95 Interchange Design over Glades Road"</i>	Summer 2003 – Fall 2003 (Evaluation of Final Design Only)
[148] Amy Omae, Erick Revuelta, Linsey Graham	<i>"Coral Reef Destruction"</i>	Spring 2003 (University of Miami)
[149] Daniel Mannina, Nicole Marcovich, Rebecca Ohm	<i>"Ecotourism on the Galapagos Islands"</i>	Spring 2003 (University of Miami)
[150] Jason Jasinki, Peter Alfano, John Seaton	<i>"Midwest Gen NO_x Production"</i>	Spring 2003 (University of Miami)
[151] Ryan Driscoll, Alexandra Janelli, Jody Stryker	<i>"Leaky Underground Storage Tanks"</i>	Spring 2003 (University of Miami)
[152] Rachel Dawson, Amy Warner, Daniel Milian	<i>"Impact of Nitrate Runoff in the Coastal Environment"</i>	Spring 2003 (University of Miami)
[153] Heather Horn, Soledad Stegmann, Laura Chartier, Mike Mullen	<i>"Aflatoxin Issues"</i>	Spring 2003 (University of Miami)

Supervision of Co-Curricular Undergraduate Research (2003 – Present)

I have supervised 70 undergraduate students on 47 undergraduate research projects, and also participated in K-12 outreach and training programs (STEM Academy) for Lauderhill, McNicol, Sunrise, Apollo, Parkway, and Silver Lakes M.S. in 2011 – 2013 for teacher training and student instruction.

Project Title	Student	Type	Dates
<i>“Removing Methanol Additives from Fracking Fluids using Advance Oxidation Technology”</i>	[1] Lissandre Meyer	BSCV 2018 expected (FAU)	Spring 2015-
<i>“Determination of Appropriate Sample Size for Stucco Removal Studies”</i>	[2] Brandon Shaw	BSCV 2015 expected (FAU)	Fall 2015-
	[3] Jonathan Murphy	BSCV 2015 expected (FAU)	
	[4] Dylan Trotsek	BS/MS 2016 expected (FAU)	
<i>“Investigation of Iron Underneath Landfills”</i>	[5] Neil Coffman	BS/MS 2015 expected (FAU)	Summer 2014-
<i>“Analysis of Leachate for Soluble Calcium Content”</i>	[6] Justin Dacey	BSCV 2015 expected (FAU)	Summer 2014-
<i>“Studies of Iron Underneath Landfills”</i>	[7] Megan Matson	BSOE 2017 expected	Summer 2014- Fall 2014
<i>“Leachate Clogging Research”</i>	[8] Jessyca Dalazen	Visiting Researcher BSCV 2018 expected (NAU)	Summer 2014
<i>“Leachate Analysis of Water Quality Parameters Associated with Clogging”</i>	[9] Alyssa Harris	BSEE 2017 expected (FAU)	Fall 2013 -
<i>“Investigation of Leachate Clogging”</i>	[10] Denys Purdy	BSCV 2015 expected (FAU)	Fall 2013 -
<i>“Leachate Water Quality”</i>	[11] Geovanny Cisneros	BSCV 2015 expected (FAU)	Fall 2013 – Spring 2014
<i>“Analysis of Leachate Water Quality”</i>	[12] Ricardo Coconcelli	BSCV 2015 expected (FAU)	Fall 2013 – Spring 2014
<i>“Research of Leachate Water Quality with Respect to Clogging in Pipes”</i>	[13] Oceané Boulais	BSEE 2018 expected (FAU)	Fall 2013 – Spring 2014
<i>“Dania Beach Contribution of On-Site Treatment and Disposal Systems”</i>	[14] Azuogu Chijioko	BSCE 2018 expected (FAU)	Fall 2013
<i>“Dania Beach Contribution of On-Site Treatment and Disposal Systems”</i>	[15] Gabriel Espinal	BSCE 2018 expected (FAU)	Fall 2013
<i>“Leachate Clogging Field Work”</i>	[16] Colleen Wiltberger	Visiting Researcher BS 2016 expected (UNF)	Summer 2013
<i>“Leachate Clogging Research”</i>	[17] Christine Lyons	BSCV 2014	Fall 2012 – Spring 2014
<i>“Dissolution of Iron Underneath Landfills”</i>	[18] Cleevens Guerrier	BSCV 2014	Fall 2012 – Fall 2013
<i>“Leachate Photocatalysis Optimization”</i>	[19] David Vargas	Visiting Researcher BSEV 2013 (Johns Hopkins)	Summer 2012
<i>“Sustainshield for Environmentally Preferable Purchasing”</i>	[20] David Cowan	BS/MS 2015	Spring 2012 – Summer 2014

Project Title	Student	Type	Dates
<i>"Green Lodging Decision Support"</i>	[21] Theresa McEndarfer	BSGE 2013, M.Ed. 2014-	Fall 2011 – Summer 2012
<i>"Leachate Photocatalytic Pilot Reactor Experiments"</i>	[22] Frank Youngman	BSCV 2012, MSCV 2013 (FAU)	Completed Spring 2012
<i>"Leachate Photocatalytic Pilot Reactor Design"</i>	[23] Rich Reichenbach	BSCV 2010, MSCV 10-11	Completed Fall 2011
<i>"Ultraviolet Fluence"</i>	[24] Kelly Horner	BSCHE 2014 (UF)	Completed Summer 2011
<i>"Leachate Photocatalysis"</i>	[25] André McBarnette	BS 2006, BSCV 2009 MSCV 2011 (FAU)	Completed Spring 2010
<i>"FWRC FAU Engineering Design Project"</i>	[26] Paula Fonseca	BSCV 2010	Completed Spring 2009
	[27] Linda Hess	BS/MS 2009	
	[28] George Beck	BSCV 2010	
	[29] Lina Camacho	BCSV 2011	
<ul style="list-style-type: none"> • <i>"Boynton Inlet Water Quality Study"</i> • <i>"Taylor County Beaches Water Quality Investigation"</i> • <i>"Boynton Beach Odor Control Study"</i> • <i>"Urban and Rural Beaches Pathogen Study"</i> 	[30] Anthony Ruffini	BSCV 2010, MSCV 10-13	Completed Spring 2010
<i>"Leachate Photocatalysis"</i>	[31] Benazir Portal	BSCV 2010, MSCV 2012 (FAU)	Spring 2009
<i>"Calcium Carbonate Deposition in Water Filters"</i>	[32] Seema Pathak	Visiting Researcher BA 2014 (UC Berkeley)	Completed Fall 2009
<i>"Leachate Photocatalysis"</i>	[33] Jason Neal	BSCV 2010	Summer 2009
<i>"Florida Green Lodging Performance Measures Study"</i>	[34] Fawn Kibria	BSCV 2010 MSEnvE 2012 (USF)	Completed Spring 2009
<i>"Urban and Rural Beaches Pathogen Study"</i>	[35] Cason Morrisette	Visiting Researcher BS 2011 (Barry)	Completed Spring 2009
<i>"Orange County Leachate Boron Removal Study"</i>	[36] Joseph Vasquez	Visiting Researcher BS 2011 (Stanford)	Completed Summer 2008
<i>"Florida Green Lodging Performance Measures, Phase 3"</i>	[37] Dean Frankel	Visiting Researcher BAS 2012 (U. of Penn)	Completed Summer 2008
<i>"Leachate Photocatalysis"</i>	[38] Hatsuko Hamaguchi	Visiting Researcher BSCE 2008 (U. of Tokushima)	Completed Spring 2008
<i>"TiO₂ Photocatalysis of Landfill Leachate"</i>	[39] Swapnil Jain	Visiting Researcher BStech 2008 (Bombay)	Completed Summer 2007
<ul style="list-style-type: none"> • <i>"Boynton Beach Odor Control Study"</i> • <i>"Urban and Rural Beaches Pathogen Study"</i> 	[40] Gus Cicala III	BSCV 2010, MSCV 2013	Completed Spring 2008
<ul style="list-style-type: none"> • <i>"Boynton Beach Odor Control Study"</i> • <i>"Urban and Rural Beaches Pathogen Study"</i> 	[41] Victor Hugo Rosas	BSCV 2010	Completed Spring 2008

Project Title	Student	Type	Dates
<ul style="list-style-type: none"> • “Boynton Beach Water Quality and Odor Control Study” • “Urban and Rural Beaches Pathogen Study” • “Taylor County Green Lodging Assessment” 	[42] Linda Hess	BS/MS 2009	Completed Spring 2008
“CGN4905 – Water Supply and Treatment: Design of a Water Treatment System for an Orchid Nursery”	[43] Parastoo Sanjari	BSCV 2006	Completed Spring 2006
“2006 FWEA Student Design Competition: Feasibility Study for the Expansion and Upgrade of the Northwest Water Reclamation Facility to Meet New TMDL Criteria”	[44] François Gasnier	BS/MS 2007	Completed Spring 2006
	[45] Eli Brossell	BSCV 2006, MSCV 06-07	
	[46] Gil Samson	BSCV 2006	
	[47] Thais Bocca	MSCV 2007 (FAU)	
	[48] Siswanto Utomo	MSCV 05-07	
“Undergraduate Research: Development of Methods for Automatic Monitoring of Temperature for Bioassay Systems”	[49] Brian Tiehen	BSCV 2007	Fall 2005
“2005 FWEA Student Design Competition: Transformation of Royal Lakes WWTP (Jacksonville, FL) Evaluation of Alternatives “	[50] Jane Gao	BSCV 2005 MSCV 2010 (FAU)	Completed Spring 2005
	[51] Denise Barros	BSCV 2005	
	[52] Ron Benson	BSCV 2005	
	[53] Petersen Benjamin	BSCV 2005	
“Undergraduate Research: Method Development and Design of Bioassay Frame Unit”	[54] Eli Brossell	BSCV 2006	Completed Spring 2005
“Undergraduate Research: Septic Tanks Data Collection”	[55] Felipe Pulido	BSCV 2005 MSCN 2008 (UTA)	Completed Spring 2005
“Undergraduate Research: Field Sampling in Dania Beach and Hollywood”	[56] Mauricio Pico	BSCV 2005 MSCV 2010 (UPM)	Completed Spring 2005
“CGN4905 – Wastewater Engineering”	[57] Jane Gao	BSCV 2005 MSCV 2010 (FAU)	Completed Spring 2005
	[58] Denise Barros	BSCV 2005	
	[59] Ron Benson	BSCV 2005	
	[60] Petersen Benjamin	BSCV 2005	
“CGN4905 – Water Supply and Treatment”	[61] Felipe Pulido	BSCV 2005 MSCN 2008 (UTA)	Completed Summer 2004
	[62] Evan Kennedy	BSCV 2004 MSCV 2009 (FAU)	
	[63] Henry Johnston	BSCV 2005	
	[64] Jason Debrincat	BSCV 2005	
“2004 FWEA Student Design Competition: Perspectives and Analysis of a New Aerobic Digestion System for the East Central Regional Water Reclamation Facility (ECRWF) West Palm Beach, Florida”	[65] Ronald Desbrunes	BSCV 2004, MSCV 2006 (FAU)	Completed Spring 2004
	[66] Michael Genduso	BSCV 2004, MSCV 2006 (FAU)	
	[67] Jennifer Magnus	BSCV 2004	
	[68] Frédéric Morin	BS/MS 2005	
	[69] Jean Aubanel	BS/MS 2005	
	[70] Matthew Maxey	BSCV 2004	

Professional Development Activities Related to Research Curriculum

- [1] Participant, "Curriculum Mapping Workshop" (March 12, 2015)
- [2] Member of the Undergraduate Research Curriculum Committee (Spring 2015-Present)
- [3] Participant, "Intro to DTD Assessment Rubric and Applying Rubric to Assignment/Course Plan Worksheet" (February 18, 2015)
- [4] Participant, "Backward Design: Assessment, Assignment Plan and Course Plan Workshop" (January 30, 2015)
- [5] Participant, "Introduction to the Curriculum Grants Program and Integrating URI into the Curriculum (January 16, 2015)
- [6] Undergraduate Research Faculty Liaison, College of Engineering and Computer Science (Fall 2014-Present)
- [7] Participant, "LiveText Training for DTD Curriculum Grants" (Spring 2014-Fall 2014)
- [8] Co-Leader, "Criteria and Strategies for Student Success During Their Academic Careers and Beyond" (Fall 2013-Spring 2014)
- [9] CEL3001 Quality Matters Course (Summer 2013)
- [10] Blackboard Exemplary Course Catalyst Program (Spring 2013)
- [11] Co-Leader and Facilitator, "FLC for the QEP – Distinction Through Discovery," Co-leader of FLC and Facilitator for "Distinction Through Discovery: Basic concepts and best practices to implement and integrate research and inquiry into the curriculum." (Fall 2012 – Spring 2013)
- [12] Participant, "Dual-Listed Courses" (Fall 2012-Spring 2013)
- [13] Sloan-C Online Education Retention Strategies Teaching Certification (October 2012)
- [14] Co-Leader, "Research, Creative and Scholarly Activities into the Undergraduate Curriculum" (Fall 2011-Spring 2012)
- [15] 5th Annual Florida Statewide Symposium: Engagement in Undergraduate Research, Orlando, FL (October 19-20, 2012)
- [16] Participant, "Assessment Technologies and Strategies" (Fall 2010-Spring 2011)
- [17] CEL1001 eLearning Designer/Facilitator Certification Course (Fall 2011)
- [18] Contributor, "Engineering Sustainability Task Force FLC" (Fall 2009-Spring 2010)
- [19] Participant, "Inquiry-Based Learning FLC" (Fall 2009-Spring 2010)
- [20] Writing Across the Curriculum Certification Training (May 12-14, 2010)
- [21] Assessment Training (January 15, 2010)
- [22] American Society of Engineering Educators, SE Section Conference, University of Memphis, TN (April 6-8, 2008)
- [23] Banner 7.0 Navigation Training (June 19, 2006)
- [24] Faculty Workshop: Getting Students Beyond Google: Promoting Information Literacy (November 12, 2004)
- [25] Continuing Education Forum: Assessments in Blackboard (September 21, 2004)
- [26] Discussion of Hands-on Teaching Options, Dr. T. Pusiteri (September 1, 2004)
- [27] Faculty Workshop: Teaching with Less Time and Stress: Improving Teaching Efficiency and Effectiveness (February 27, 2004)

Laboratory Development

In 2003, no laboratory facilities for Environmental Engineering-related research existed. Laboratory development activities include securing suitable space, designing architectural layouts, engineering ventilation/security/safety systems, procuring equipment/supplies, maintenance, and supervision.

- [1] Research Lab, Laboratories for Engineered Environmental Solutions (2003 – Present)
- [2] Teaching Lab, ENV3001 Environmental Science & Engineering Lab (2005 – Present)

- [3] Teaching Lab, *ENV3001L Chemistry for Engineers Lab* (2008– 2010)
- [4] Teaching Lab, *EGN2095L Engineering Chemistry* (2010 – Present)
- [5] Teaching Lab, *CGN4803 Civil Engineering Design Lab* (2010 – Present)
- [6] Teaching Lab, *Biology for Engineers Lab* (2010)
- [7] Teaching/Research Lab, *Civil Engineering Materials and Environmental Lab Major Renovation* (2014)
- [8] Research Lab, *Multidisciplinary Biotech Research Lab* (2014)
- [9] Teaching Lab, *Library AutoCAD Lab* (2015)
- [10] Teaching Lab, *Capstone Design Lab/SEFLIN room* (2015)

Advising of Student Clubs (2003 – Present)

- [1] Faculty Advisor, *FAU Joint Student Chapter of the Florida Water Environment Association and the American Water Works Association* (August 2004 – Present)
- [2] Faculty Advisor, *Tau Beta Pi Engineering Honor Society, Florida Epsilon Chapter* (March 2005 – Present)

Undergraduate Research Intensive Courses

Capstone Design Courses

Another extremely important aspect of the undergraduate program is the two-semester capstone series. This sequence allows our students to smoothly transition from the classroom to the professional world. In the summer of 2004, I was asked to develop a new direction for this course. I teamed up with Dr. Bloetscher, who at the time was an Adjunct Professor, Albert Muniz (Professional Engineer and Vice President of Hazen and Sawyer, P.C., an International Engineering Consulting Firm), and Michael Singer (eminent scholar in the College of Arts and Letters), a world-renown artist and architect. Mr. Singer had just finished teaching a course (*Creative Thinking in the Public Realm*) comprised of multidisciplinary doctoral candidates in which they developed a conceptual design problem that challenges the built environment. These students lamented that they could not turn their concepts into reality, but that is where civil engineers excel. So we created a design project around the concept developed in Singer’s course and allowed our students the freedom to come up with novel and creative solutions to the design challenges posed by their real-world clients. While our students were developing their designs, improving their presentation and technical writing skills, learning engineering economics and ethics and experiencing how “real” engineering gets done, Singer and his team were working tirelessly to raise funding to actually build this project, *“Transformations.”* When our students proposed their final designs with high performance building features and innovative solutions, the design professionals that were hired for this real project were taking notes. In fact, one of our students was hired to incorporate some of the more unique aspects of the design into the final construction plans. Both capstone courses are also part of the Writing Across the Curriculum (WAC) program. Without a doubt, this course is a very special experience for the students, and watching the transformation of our students into young professionals, right in front of your eyes, is incredibly rewarding.

Undergraduate Research Courses

I helped to develop a series of two (2) one-credit courses for the Distinction to Discovery (DTD) Undergraduate Research Initiative. The first course *CGN4910-Research 1* is an exposure level exploration in how to conduct undergraduate research with scaffolded student-centered learning and the companion course *CGN4911-Research 2* is an intensive industry-mentored or peer-mentored research project culminating in a deliverable such as a conference paper, journal article or scholarly

presentation. Back in 2009, I was awarded an assessment grant that led to a WAC curriculum development grant in 2010 to standardize our laboratory report writing rubrics across the junior level courses in our program. The same model is now being applied to improving our undergraduate research experiences in the senior level design courses through the recently awarded QEP Curriculum Grant in partnership with the Geosciences program in the Dorothy F. Schmidt College of Science and the Geomatics Engineering program.

External Grants With Funded Undergraduate Researchers

Since 2003, Dr. Meeroff has been awarded 21 externally funded grants as PI and another 19 grants as Co-PI, for a total of \$10.1 million. The list that follows includes the grants in which undergraduate student research assistants were hired or mentored. From this list, 83% of Dr. Meeroff's research grants involve undergraduate researchers (n=33).

Title of Research	Funding Agency	PI (Co-PI)	Period	Amount
[1] "Critical Examination of Leachate Collection System Clogging at SWA Disposal Facilities, Years 2 and 3"	Solid Waste Authority of Palm Beach County	Schert (Townsend, Meeroff)	2013-2015	\$250,000 (\$70,000)
[2] "Safe Discharge of Landfill Leachate to the Environment"	William W. "Bill" Hinkley Florida Center for Solid and Hazardous Waste Management	Meeroff	2013-2015	\$103,780
[3] "Assessing Options for On-site Leachate and Groundwater Management Strategies at Florida Landfills"	William W. "Bill" Hinkley Florida Center for Solid and Hazardous Waste Management	Townsend (Meeroff)	2013-2014	\$69,500 (\$4,836)
[4] "Sustainable Management of Pollutants Underneath Landfills"	William W. "Bill" Hinkley Florida Center for Solid and Hazardous Waste Management	Meeroff	2012-2013	\$40,000
[5] "Critical Examination of Leachate Collection System Clogging at SWA Disposal Facilities"	Solid Waste Authority of Palm Beach County	Schert (Townsend, Meeroff)	2012-2014	\$150,000 (\$50,000)
[6] "Growing STEM Schools: Magnet Schools Assistance Program"	School Board of Broward County (US Department of Education)	Zilouchian (Meeroff and others)	2011-2014	\$8,642,395 (\$6,946)
[7] "Onsite Treatment of Leachate Using Energized Processes"	William W. "Bill" Hinkley Florida Center for Solid and Hazardous Waste Management	Meeroff	2011-2013	\$47,515
[8] "Pollution Prevention Technical Assistance Tool for Lean and Green Performance Measures"	United States Environmental Protection Agency	Meeroff	2010-2012	\$25,000
[9] "Management of Subsurface Reductive Dissolution Underneath Landfills"	William W. "Bill" Hinkley Florida Center for Solid and Hazardous Waste Management	Meeroff	2010-2012	\$30,000
[10] "Water Quality Review of Membrane System Pre-Qualifications"	Calvin Giordano and Associates	Bloetscher (Meeroff)	2010-2011	\$56,074 (\$3,909)
[11] "Energized Processes for Onsite Treatment of Leachate"	William W. "Bill" Hinkley Florida Center for Solid and Hazardous Waste Management	Meeroff	2009-2011	\$55,000
[12] "Review of Coastal Water Quality Inputs"	Florida Water Environment Association Utility Council	Bloetscher Meeroff	2008-2009	\$25,000 (\$2,500)

Title of Research	Funding Agency	PI (Co-PI)	Period	Amount
[13] "Southeast Florida's Resilient Water Supply: Protecting it from the Likely Impacts of Climate Change"	Bipartisan National Commission on Energy Policy	Murley (Bloetscher Meeroff)	2008-2009	\$75,000 (\$1,250)
[14] "Green Lodging Performance Measures Phase 4"	Florida Department of Environmental Protection	Meeroff (Scarlatos)	2008-2009	\$12,215
[15] "Interactive Decision Support Tool for Leachate Management"	William W. "Bill" Hinkley Florida Center for Solid and Hazardous Waste Management	Meeroff (Teegavarapu)	2008-2009	\$40,000
[16] "Green Lodging Performance Measures Phase 3"	Florida Department of Environmental Protection	Meeroff (Scarlatos)	2008	\$8,206
[17] "Taylor County Source Tracking: Seasonal Variability Study"	Florida Department of Health	Meeroff (Bloetscher)	2007-2008	\$13,960
[18] "Taylor County Beaches Seasonal Water Quality Impacts"	Florida Department of Environmental Protection	Meeroff (Bloetscher)	2007-2008	\$23,891
[19] "Taylor County Source Tracking: Seasonal Variability Testing"	Florida Department of Health	Meeroff (Bloetscher)	2007	\$10,634
[20] "Determination of Water Use Profiles for Water Conservation"	Broward County Water and Wastewater Services	Bloetscher Meeroff	2007-2008	\$150,000 (\$1,777)
[21] "Year Two - Investigation of Energized Options for Management of Leachate"	William W. "Bill" Hinkley Florida Center for Solid and Hazardous Waste Management	Meeroff (Tsai)	2006-2008	\$45,000
[22] "Green Lodging Project Phase 2: Energy Efficiency and Clean Air Practices"	Florida Department of Environmental Protection	Meeroff (Scarlatos)	2006-2007	\$18,690
[23] "Water Quality Review, Membrane System Pre-Qualification Document Preparation, Membrane Testing and Selection"	Camp, Dresser, and McKee	Bloetscher (Meeroff)	2006-2007	\$67,287 (\$3,909)
[24] "Boynton Inlet Water Quality Testing Phase 2"	Hazen and Sawyer, P.C.	Bloetscher (Meeroff)	2006-2007	\$6,800 (\$281)
[25] "Laboratory Geotechnical Characterization of the SWA Western Landfill Site"	Camp, Dresser, and McKee	Sobhan (Meeroff)	2006	\$22,182 (\$1,102)
[26] "Green Lodging Project Phase 1: Solid Waste Management, Waste Reduction, and Water Conservation"	Florida Department of Environmental Protection	Meeroff (Scarlatos)	2006	\$18,695
[27] "Boynton Inlet Water Quality Testing Phase 1"	Hazen and Sawyer, P.C.	Bloetscher (Meeroff)	2006	\$6,234 (\$2,424)
[28] "Investigation of Energized Options for Management of Leachate"	Florida Center for Solid and Hazardous Waste Management	Meeroff (Tsai)	2005-2006	\$35,300
[29] "Investigation of Options for Long-Term Leachate Management"	Lanny and Kay Hickman Intern Program, Solid Waste Association of North America	Meeroff	2005-2006	\$1,500 + stipend
[30] "Sediment Toxicity Bioassay"	Cepemar	Meeroff	2005	\$3,797
[31] "Taylor County Beaches Pathogen and Nutrient Sources Assessment Study"	Florida Department of Health	Meeroff (Bloetscher)	2005-2007	\$50,000
[32] "Investigation of Non-Energized Options for Management of Leachate and Wastewater"	Florida Center for Solid and Hazardous Waste Management	Englehardt (Meeroff)	2004-2005	\$25,000 (\$1,482)

Title of Research	Funding Agency	PI (Co-PI)	Period	Amount
[33] "Contribution of On-Site Treatment and Disposal Systems on Coastal Nutrient Loading"	Florida Water Environment Association Utility Council	Meeroff	2003-2004	\$20,000

Internal Grants

Since 2003, Dr. Meeroff has been awarded 9 internally funded grants as PI and another 1 grant as Co-PI, for a total of \$422,848.

Title of Research	Funding Agency	PI (Co-PI)	Period	Amount
[1] "Removing Methanol Additives from Fracking Fluids using Advance Oxidation Technology"	FAU Undergraduate Research Grant	Meyer and Meeroff	Pending	\$500
[2] "Expanding the Student-Centered Undergraduate Research Culture Across the Curriculum"	FAU Office of Undergraduate Research and Inquiry	Meeroff & Scarlatos (Roberts, Arockiasamy, Nagajaran, Root, Markwith, Hindle)	2013-2015	\$20,000
[3] "Determination of Appropriate Sample Size for Stucco Removal Studies"	FAU Undergraduate Research Grant	Shaw, Murphy, Trotsek and Meeroff	2014-5	\$1,000
[4] "Vibration Table Experiments for Calcium Carbonate Crystal Growth in Leachate Pipes"	FAU Undergraduate Research Grant	Boulais, Harris, Purdy and Meeroff	2014-5	\$1,000
[5] "eLearning Upgrade for Engineering Students"	Florida Atlantic University Technology Fee	Meeroff	2013	\$6,104
[6] "Faculty Learning Community for the QEP"	FAU Center for Teaching and Learning	Peluso (Meeroff and others)	2012-2013	\$17,500 (\$2,500)
[7] "eLearning Expansion in Engineering"	Florida Atlantic University Technology Fee	Meeroff	2012	\$12,224
[8] "Research, Creative and Scholarly Activities into the Undergraduate Curriculum"	FAU Center for Teaching and Learning	Meeroff and Chamley-Wiik	2011-2014	\$3,150
[9] "eLearning for Engineering Chemistry"	FAU Center for eLearning	Meeroff	2011-2012	\$3,000
[10] "Department of Civil, Environmental, and Geomatics Engineering WAC Curriculum Development Grant"	FAU University Center for Excellence in Writing (Writing Across the Curriculum)	Meeroff (Scarlatos and Arockiasamy)	2010-2011	\$2,000
[11] "Investigative Learning-Centered Assessment in Undergraduate Engineering Coursework"	FAU Office of Assessment	Meeroff (Sobhan and Yong)	2010	\$8,270
[12] "Plug Flow Reactor Model for Photocatalytic Oxidation of Leachate"	FAU Undergraduate Research Grant	Reichenbach and Meeroff	2010	\$600

Publications Relevant to Undergraduate Research or Involving Undergraduate Researchers

- [1] D. Chamley-Wiik, K. Dunn, P. Heydet-Kirsch, M. Holman, **D.E. Meeroff**, and J. Peluso. (2014). "Scaffolding the development of student research skills for capstone experiences: A multi-disciplinary approach." *CUR Quarterly*, Volume 34, Number 4, 18-25.
- [2] **D.E. Meeroff**, F. Bloetscher, S.C. Long, and T. Bocca (2014). "The Use of Multiple Tracers to Evaluate the Impact of Sewered and Non-Sewered Development on Coastal Water Quality in a Rural Area of Florida." *Water Environment Research*, Volume 86, Number 5, 445-456.
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- [4] **D.E. Meeroff** and Ahmed Albasri (2012). "Management of Subsurface Reductive Dissolution Underneath Landfills," Final Report for the William W. "Bill" Hinkley Center for Solid and Hazardous Waste Management, Gainesville, FL. Report# 1032023. [Published September 2012 at <http://www.hinkleycenter.org>]
- [5] **D.E. Meeroff** (2012). "Final Report: Pollution Prevention Technical Assistance Tool For Lean and Green Performance Measures," EPA Contract Number X9-95406010-0, Atlanta, GA.
- [6] **D.E. Meeroff** (2012). "User Manual Version 1.0 Pollution Prevention Technical Assistance Tool For Lean and Green Performance Measures," EPA Contract Number X9-95406010-0, Atlanta, GA.
- [7] **D.E. Meeroff**, F. Bloetscher, D. V. Reddy, F. Gasnier, S. Jain, A. McBarnette and H. Hamaguchi (2012). "Application of photochemical technologies for treatment of landfill leachate," *Journal of Hazardous Materials*, Volume 209–210, pp. 299–307.
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- [9] **D.E. Meeroff**, F. Gasnier, H. Hamaguchi, S. Jain, A. McBarnette, and R. Reichenbach (2011). "Technologies for Onsite Sustainable Leachate Management." *Waste Advantage*. February 2011: 20–24
- [10] **D.E. Meeroff** (2011). "Energized Processes for Leachate Management." Final Report for the William W. "Bill" Hinkley Center for Solid and Hazardous Waste Management, Gainesville, FL. Report# 0932015.
- [11] **D.E. Meeroff** and R. Teegavarapu (2011). "Interactive Decision Support Tool for Leachate Management." Final Report for the William W. "Bill" Hinkley Center for Solid and Hazardous Waste Management, Gainesville, FL. Report# 0832028. J. Pire-Schmidt, F. Bloetscher, **D.E. Meeroff**, T.P. Carsey, J. Stamates, K. Sullivan, and J. Proni (2012) "Farfield modeling of the Boynton Inlet plume." *Environmental Management and Sustainable Development*, Volume 1, Number 2, pp. 74–89.
- [12] T. Carsey, N. Amornthamarong, J. Bishop, F. Bloetscher, C. Brown, J. Craynock, S. Cummings, P. Dammann, C. Featherstone, K. Goodwin, **D.E. Meeroff**, J. Proni, C. Sinigalliano, P. Swart, J. Stamates, and Jia-Zhong Zhang (2011). "NOAA Data Report AOML-XX: Boynton Inlet 48-hour Sampling Intensives, June and September, 2007," National Oceanographic and Atmospheric Administration Report, Key Biscayne, FL.

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- [14] F. Bloetscher, **D.E. Meeroff**, A. Toro (2010). "Concentrating the Concentrate – Pointing to Solutions for Concentrate Management," *International Desalination Association Journal of Desalination*, Volume 1, Number 1. pp. 39–51.
- [15] J. Proni, M. Adler, N. Amornthammarong, J. Bishop, F. Bloetscher, T. Carsey, J. Craynock, S. Cummings, P. Dammann, C. Drayer, C. Featherstone, **D.E. Meeroff**, K. Goodwin, E. Peltola, D. Pierrot, C. Sinigalliano, P. Swart, J. Stamates, K. Sullivan, R. Wannikhof, and Jia-Zhong Zhang (2009). "Final Report: An Investigation of the South Central Regional Wastewater Treatment Plant Ocean Outfall and Coastal Environment," Ocean Chemistry Division, Atlantic Oceanographic and Meteorological Laboratory, Miami, Florida; Rosenstiel School of Marine and Atmospheric Sciences, University of Miami; Cooperative Institute for Marine and Atmospheric Studies, University of Miami; Florida Atlantic University, Boca Raton, Florida; Applied Research Center, Florida International University, Miami, Florida.
- [16] **D.E. Meeroff** and P.D. Scarlatos (2009). "Green Lodging Project Phase 4: Green Lodging Performance Measures: Implementation and Monitoring-Final Report," Florida Department of Environmental Protection, May 30, 2009.
- [17] R. Teegavarapu, and **D.E. Meeroff** (2008). "Water Quality Synoptic Survey Data Analysis for East Beach Water Control District," SFWMD, West Palm Beach, FL.
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- [21] **D.E. Meeroff**, F. Bloetscher, and T. Bocca (2008). "Taylor County Beaches Pathogen and Nutrient Sources Assessment Study: Seasonal Variability Study Findings," Florida Department of Health, Bureau of Onsite Sewage Programs, Research Review and Advisory Committee (RRAC) Meeting, Orange County Health Department, Orlando, FL, May 29, 2008.
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- [23] F. Bloetscher and **D.E. Meeroff** (2008). "Review of Comments from Architect Regarding Analysis of Green Building Options and LEED Certification, Fairwinds Hotel," Miami Beach, FL.
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- [1] **D.E. Meeroff** (2013). "Environmental Engineering and Science Laboratory Manual, 1st edition," Kendall Hunt Publishing Company. With Forward by Undergraduate Researcher David Cowan Jr. ISBN: 978-1-4652-2086-8.



Environmental Science and Engineering Laboratory Manual

Author(s): [Daniel Meeroff](#)

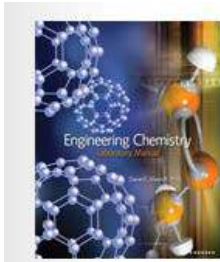
ISBN: 978-1-4652-2086-8

Edition: 1

Copyright: 2013

Pages: 102

- [2] **D.E. Meeroff** (2013). "Engineering Chemistry Laboratory Manual, 1st edition," Kendall Hunt Publishing Company. ISBN: 978-1-4652-1599-4.



Engineering Chemistry Laboratory Manual

Author(s): [Daniel Meeroff](#)

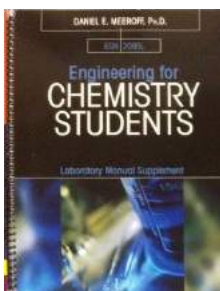
ISBN: 978-1-4652-1599-4

Edition: 1

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Pages: 80

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Chemistry for Engineering Students Laboratory Manual, 2nd edition

Author(s): [Daniel Meeroff, Ph.D.](#)

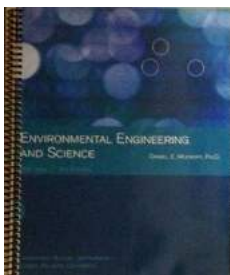
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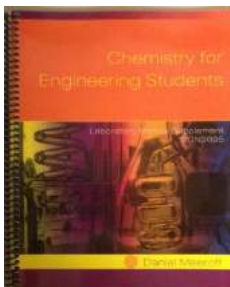
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Chemistry for Engineering Students Laboratory Manual, 1st edition

Author(s): [Daniel Meeroff, Ph.D.](#)

ISBN-13: 978-1-111-95131-3

Edition: 1

Copyright: 2010

Pages: 77

Presentations and Conference Papers with Undergraduate Research Contributions

- [1] **D.E. Meeroff**, A. Albasri, J. Lakner, D. Purdy, J. Dacey, and A. Harris (2015). *“Groundwater Circulation Well Experiments and Safe Discharge of Landfill Leachate to the Environment and Leachate Collection System Clogging, Technical Advisory Group Update,”* HCSHWM TAG Meeting, Boca Raton, FL (January 30, 2015).
- [2] **D.E. Meeroff**, A. Albasri, J. Lakner, D. Purdy, J. Dacey, and A. Harris (2014). *“Groundwater Circulation Well Technology and Safe Discharge of Landfill Leachate to the Environment and Critical Examination of Leachate Collection System Clogging, Technical Advisory Group Update,”* HCSHWM TAG Meeting, West Palm Beach, FL (May 27, 2014).
- [3] **D.E. Meeroff**, A. Albasri, F. Youngman and C. Lyons (2013). *“Sustainable Management of Pollutants Underneath Landfills and Onsite Treatment of Leachate Using Energized Processes and Critical Examination of Leachate Clogging, Technical Advisory Group Update,”* HCSHWM TAG Meeting, Boca Raton, FL (March 15, 2013).
- [4] **D.E. Meeroff** and F. Bloetscher (2013). *“Fun with Roof Design and Construction,”* 2013 STEM Summer Academy, Broward County Middle Schools, FAU Davie Campus (June 24-27, 2013).
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- [12] Mirya Holman and **D.E. Meeroff** (2012). *“Out of the Classroom and Into Our Research: Using Directed Independent Studies and Other Co-Curricular Activities To Promote Undergraduate Research.”* 5th Annual Florida Statewide Symposium: Engagement in Undergraduate Research, University of Central Florida (October 20, 2012). [Published in Proceedings]

- [13] **D.E. Meeroff**, A. Albasri, and F. Youngman (2012). "Management of Subsurface Reductive Dissolution Underneath Landfills and Onsite Treatment of Leachate Using Energized Processes, Technical Advisory Group Update," HCSHWM TAG Meeting, Boca Raton, FL (November 2, 2012).
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- [23] **D.E. Meeroff** (2010). "Advanced Oxidation Technology for Sustainable Leachate Management," WASTECON-2010. Boston Convention and Exhibition Center, Boston, MA. August 15-17, 2010. [Published in Proceedings]
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- [31] **D.E. Meeroff** (2009). *"Florida Green Lodging Performance Measures Study,"* South Florida Green Lodging Workshop, Miami Beach Convention Center, Miami Beach, FL, March 4, 2009. [Published in Online Proceedings]
- [32] **D.E. Meeroff** and F. Bloetscher (2009). *"Lab.EES Capabilities for CIMAS,"* CIMAS Meeting, Seatech Campus, Dania Beach, FL. October 21, 2009.
- [33] **D.E. Meeroff** (2009). *"Combining Science and Technology to Protect and Conserve Our Environment,"* Geosciences Colloquium – GEO6920. September 18, 2009.
- [34] **D.E. Meeroff** and R. Teegavarapu (2009). *"Interactive Decision Support Tool for Leachate Management – A Primer for the Landfill Committee,"* FS/SWANA Annual Meeting, Naples, FL. July 22, 2009.
- [35] **D.E. Meeroff** (2009). *"Photocatalytic Oxidation for Removal of EDCs,"* Florida Water Resource Conference 2009, Workshop on Advanced Oxidation Processes for Emerging Contaminant Removal, West Palm Beach Convention Center, West Palm Beach, FL, April 6, 2009. [Published in Proceedings]
- [36] F. Bloetscher, **D.E. Meeroff**, and A. Toro (2008). *"Concentrating the Concentrate-Pointing to Solutions for Concentrate Management,"* Proceedings of the Florida Water Resources Conference, Tampa Convention Center, Tampa, FL, May 5-7. 2008. [Published in Proceedings]
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March 13, 2015

Office of Undergraduate Research and Inquiry
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To Whom It May Concern:

Please accept this letter of recommendation for Dr. Daniel Meeroff in consideration of the "Distinguished Undergraduate Research and Inquiry Mentor of the Year" award. I believe that Dr. Meeroff is a great asset to Florida Atlantic University for his dedication to developing FAU as a research university by demonstrating excellence as an undergraduate research mentor. He fosters collaboration among students in different disciplines, encourages critical thinking, and is always available for assistance related to research.

I was introduced to Dr. Meeroff in Fall of 2013 by a fellow undergraduate student who was assisting in FAU's Laboratory for Engineered Environmental Solutions (LabEES). Dr. Meeroff offered me a position helping with research for the "Critical Examination of Leachate Clogging", a joint project with the University of Florida being performed at the Solid Waste Authority of Palm Beach County (SWA). Dr. Meeroff made me feel like part of the team on my first visit to SWA by introducing me to engineers, consultants, and fellow researchers. He encouraged my input on this first visit, which helped to develop my confidence offering input and collaborating with the team.

During my time assisting in LabEES, I have been amazed at the support Dr. Meeroff has provided. He challenges students to explore aspects not previously considered or understood and makes time to be available for support and guidance. As the Assistant Department Chair, I recognize that his time is valuable yet he has always shown an effort to respond to all communication and makes time to consult with students outside his office hours. I cannot count the number of times I have passed by his office in the morning and evening seeing his office door open and speaking with students. This has shown me that Dr. Meeroff values students' time as much as his own, a characteristic of a great team mentor.

Another aspect of Dr. Meeroff's mentorship that impresses me is how he encourages students from all disciplines to learn about research in his laboratory. Although LabEES is within the scope of the Department of Civil, Environmental and Geomatics Engineering, he has invited students from other departments including the Department of Computer & Electrical Engineering and Computer Science and the Department of Ocean & Mechanical Engineering. I have had the pleasure of working with a variety of these students from different academic backgrounds. Incorporation of a variety of backgrounds displays Dr. Meeroff's commitment to introducing all students to the research process, not just students within his own department.

As a student in Dr. Meeroff's Civil Engineering Senior Design class, I have seen how he incorporates research principles into the classroom. Assignments in class encourage students to seek out sources that will aid them in the design process, teaching students how to work independently. He provides a starting point and lets students determine their own path to a final product, while also being available to provide assistance if students request it. One of the assignments given challenge students to understand the meaning

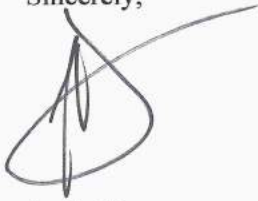
of "Question, Explore, and Pursue" and "Distinction through Discovery" and to determine how they can get involved with the Office of Undergraduate Research and Inquiry.

My time spent in the field, laboratory, and classroom is aiding my preparation for challenges beyond the Civil Engineering undergraduate program. Based on the positive experiences working with Dr. Meeroff, I have been considering attending graduate school at FAU, which was not in my post-graduate plan until recently. Dr. Meeroff has shown himself to be an excellent research mentor and I look forward to continuing our academic relationship.

Taking all of these positive experiences into consideration, I know that Dr. Daniel Meeroff is the best choice to recognize with the "Distinguished Undergraduate Research and Inquiry Mentor of the Year" award.

Please do not hesitate to contact me if you have any questions regarding Dr. Meeroff. I look forward to your choice to recognize his continuing commitment to growing FAU as a premier research university.

Sincerely,

A handwritten signature in black ink, appearing to read "Justin Dacey". The signature is stylized with a large, sweeping loop on the left side and a long horizontal stroke extending to the right.

Justin Dacey

Undergraduate Student

Department of Civil, Environmental and Geomatics Engineering

Statement of Undergraduate Student Mentorship Philosophy

Daniel E. Meeroff, Ph.D.

One of the main reasons that Florida Atlantic University is such a great institution right now is the *Distinction Through Discovery Undergraduate Research Initiative*. Imagine for a moment that you were back in school. In your formative years, you take huge general studies classes taught by graduate student teaching assistants who barely know more than you do. But at FAU, in your first semester, you get to take an introductory chemistry course from a real life environmental engineering faculty member, and if you are curious enough and courageous enough, you can approach him without fear and find out that he is working on cutting-edge new technologies to solve all of the world's problems, and he might even have an opening in his lab for you to work together with him on some truly game-changing research.

That's what I do. My laboratory and my field research teams are comprised almost entirely of undergraduate students with their fresh young minds that ask questions and lead us to new discoveries. This kind of learning is different from textbooks, quizzes, and "Google University." The learning that goes on in the classroom is just barely scratching the surface of the knowledge and experience gained working one-on-one with a world class FAU faculty member in the lab.

Why am I so passionate about undergraduate research, you ask?

Well, I got my start in research during my undergraduate studies. In my organic chemistry class of 250 students, my professor called me up (by name!) to the podium after class one day. He invited me to visit his lab (all 120 square feet!) and offered me to join his research team of doctoral candidates (and I was just a freshman). I learned invaluable research techniques, experimental analyses, data interpretation, lab safety, and even how to operate the most expensive research instruments on campus (by myself!). At the end of my time there, I helped write a research paper on bent benzene ring structures that was accepted for publication. I even got my name in the acknowledgments section of a Ph.D. dissertation. It was an incredible experience, which led to a summer undergraduate research fellowship at Harbor Branch Oceanographic Institution in which I worked with researchers on new analytical techniques to quantify chlorinated pesticides in leachate using gas chromatography/mass spectroscopy.

This gift, that enabled me to become the teacher and researcher that I am today, is a gift that I willingly share with my students here at FAU as Founder and Director of the *Laboratories for Engineered Environmental Solutions* (Lab.EES). In this capacity, I have supervised undergraduate research in the areas of environmental treatment process development, green building, resource conservation, solid and hazardous waste management, and environmental monitoring and surveillance. I really enjoy teaching and have received the highest faculty evaluations, while being nominated for several teaching awards by the students. In 2014, I received the *John J. Guarrera Engineering Educator of the Year Award* from the Engineer's Council, and I was voted the *FAU Distinguished Teacher of the Year* by the entire student body (this is the highest teaching honor at the university).

I have had wonderful experiences working with and advising students both as an instructor in the classroom and as a mentor in the research laboratory. My passion for teaching and working with young people is not limited to the engineering classroom, as students find me at all times of the day for advice on engineering topics, research ideas, and life in general. I am known throughout the University as someone who is dedicated to the craft of teaching and pursuing excellence in research and service to the students. My personal approach to undergraduate research mentorship is as follows.

“Understand,” “Explore,” and “Inspire”

From a philosophical perspective, my goal in mentoring students is to help them learn while inspiring them to take on the challenges presented by real life. I call this approach: “*understand*,” “*explore*,” and “*inspire*.”

In the “*understand*” phase, real world applications and challenges are presented in a non-threatening way (unlike the classroom exams and homework), which students appreciate, and my unique background allows me to draw from interdisciplinary resources not just in engineering, but also from the sciences (chemistry/biology) and policy as well as architecture, urban planning, and city management. This allows students to focus their attention on the problem solving in a guided exploration, as opposed to the dull task of just taking notes from a lecture. I find that my obvious passion for environmental engineering is contagious and stimulates the students to want to learn more by asking questions, formulating opinions, and identifying the entrepreneurial opportunities in the field. As a professor of an intellectual foundations course at the freshman level, I was able to meet students who had the spark of curiosity similar to mine. All I had to do to get them excited was to talk about the research question of one of my grants. I took on the role of *storyteller* at the end of class: “*Wouldn’t it be great if I could just figure out a way to fix this one little problem...*” I would say to draw them in, and then the curious ones would gather closely around the storyteller with eyes wide as he unraveled the tale of the research question to them. The brave ones would interrupt the story to ask, “*Did you try such and such...*,” and the storyteller would answer, and by the end of the story, new undergraduate researchers had joined the team, filled with wonder and excitement and energy to “*explore*” this new problem and come up with an elegant solution. Many times, the storyteller has found that students have taken the initiative to teach themselves more about the subject and truly understand the problem, which is the beginning of research.

In the “*explore*” phase, the environment that provokes thought and stimulates questions must be created. The key element for this type of atmosphere is *caring*, which occurs one-on-one. Students truly appreciate genuine care about their learning, their goals, and their progress. They also feel at ease when you value their opinions, and you show empathy for the difficult balance between work and studies and family. This builds trust, which allows students to open their minds and question interrelationships between theory and real world application, drawing from their own experience because everyone can relate to environmental issues in a deeply personal way. Now that the challenges are understood, it is time for the storyteller to become *tour guide* or *mentor* as we explore the possibilities, the engineering alternatives, and the experiments that will lead us to the solution we desire. This is where student research apprentices learn by doing and by making mistakes in safe environments and by straining to figure out why the data does not follow the expected results. This is the heart of research, which “*inspires*” us to do more and push the boundaries of knowledge.

In the “*inspire*” phase, which is the most rewarding of all, student researchers follow up their understanding of basic concepts and their exploration of opportunities to further develop their skills with projects born out of their own imaginations. This ultimately leads to further discovery or even more complex questions. During this phase, students are free to challenge the boundaries of convention, which opens their eyes to creativity in problem solving. The goal is to empower students to make connections with technical knowledge and explore the consequences of engineered systems on the environment, and all this is done with a fresh perspective, beyond the limits of traditional constraints. This is the phase in which the caterpillar magically transforms into the butterfly, spreads wings, and takes flight. In this part, the storyteller turned tour guide becomes like a *proud parent*, beams with joy as his little ones have come of age and are ready to take on the world of research on their own. The results are astounding, and in the process, the students end up inspiring me and opening my mind to new and endless possibilities.

Earlier this year, one student came to me after running an experiment and said in embarrassment, I think something went wrong, but then when we looked at the data together, we realized that the result was just unexpected (not wrong), and we have inadvertently opened a new door to discovery, which led to another grant and another publication. When the infectious wonder and curiosity leads to a breakthrough, we all learn something new and society is better for it. *That is why I am so passionate about undergraduate research.*