

**KAUSER JAHAN, Ph.D., P.E.**

---

***CURRICULUM VITAE***

Professor, Department of Civil and Environmental Engineering  
Chair Elect 2008-2011, Department of Civil and Environmental Engineering  
Henry M. Rowan Hall  
Rowan University  
201 Mullica Hill Road  
Glassboro, NJ 08028-1701  
Phone: (856) 875-4880 (H) (856) 256-5323 (W)  
Fax: (856)-256-5242  
email: jahan@rowan.edu

**EDUCATIONAL BACKGROUND**

Ph.D., Environmental Engineering, University of Minnesota, Minneapolis,  
Minnesota, 1993.  
M.S., Environmental Engineering, University of Arkansas, Fayetteville, Arkansas,  
1987.  
B.S., Civil Engineering, Engineering University, Dhaka, Bangladesh, 1983.

**ACADEMIC EXPERIENCE**

Sept. 2007-present, Director, Environmental Studies Program  
College of Liberal Arts and Sciences, Rowan University, Glassboro

Sept. 2006-present, Professor, Civil and Environmental Engineering Program  
College of Engineering, Rowan University, Glassboro

Sept. 1999-2006, Associate Professor, Civil and Environmental Engineering Program  
College of Engineering, Rowan University, Glassboro

Sept. 1996-Aug. 1999, Assistant Professor, Civil and Environmental Engineering  
Program, College of Engineering, Rowan University, Glassboro

Sept. 1994- Aug.1996, Adjunct Faculty  
Department of Civil Engineering, University of Nevada, Reno

1987-1993, Research/Teaching Assistant  
Department of Civil Engineering, University of Minnesota, Minneapolis

1988-1990, Teaching Assistant  
Health Sciences Minority Program, University of Minnesota, Minneapolis

1986-1987, Research Assistant  
Department of Civil Engineering, University of Arkansas, Fayetteville

### **INDUSTRIAL EXPERIENCE**

1994-1995, Environmental Engineer  
Bureau of Water Pollution Control, Nevada Division of Environmental Pollution, Carson City, NV

1993-1994, Water Resources Engineer  
Division of Water Resources, Nevada Division of Environmental Pollution, Carson City, NV

1984-1986, Water Resources Planning Engineer, Dhaka, Bangladesh  
Harza Engineering Company International

### **CERTIFICATIONS**

Current

- Professional Engineer, State Board of Registration for Professional Engineers and Land Surveyors, State of Nevada, 1995
- Hazardous Waste Operations and Emergency Response [29 CFR 1910.120(e)], University of Nevada, Reno, 1997.

Under review

- Diplomat, American Academy of Environmental Engineers, *Application under review*

### **HONORS & AWARDS**

AFT Gary Hunter Excellence in Mentoring Award, Rowan University 2007

ASEE Environmental Engineering Meritorious Service Award, 2007

ASCE Educator of the Year Award, 2006

Nomination for the Mid Atlantic ASEE Distinguished Teaching Award, 2005

AAAS/NSF Travel Grant to Bangladesh, 2003

Nomination for the NSPE Excellence in Education Award, 2002

Nomination for WEPAN Treasurer, 2002

Nomination for the Mid Atlantic ASEE Distinguished Teaching Award, 2001

NSF Travel Grant to attend the International Conference on Engineering Education, Oslo, Norway, 2001

Nomination for the Distinguished Lindback Teaching Award, 1998

Lindback Foundation Junior Faculty Award, 1997  
Engineering University Merit Scholarship, 1980-1983  
Bangladesh National Debate Champion, 1977, 1978  
National Merit Scholarship with Distinction - 1978  
National Merit Scholarship with Distinction – 1976

### **RESEARCH AND EDUCATIONAL INTERESTS**

- Biodegradation of slightly soluble organic compounds
- Bioremediation of contaminated soil sites by surfactants
- Mathematical modeling of biodegradation processes
- Use of membranes in water and wastewater treatment
- Anaerobic Treatment of High Strength Organic Wastes
- GIS Applications for non-point source pollution
- Beneficial reuse of wastewater
- Encouraging women into science and engineering
- Innovative laboratory methods for instruction

### **PUBLICATIONS**

#### **Book Chapters**

1. Jahan, K. (2005) “*Detergents in Wastewaters*” in the **Encyclopedia of Water**, Edited by Dr. Jay Lehr, Wiley, New York, Pages 669-674. ISBN: 0-471-44164-3
2. Jahan K. “*Water Quality in Bangladesh*” in **Environmental Ethics**, Edited by P. Mosto and D. Clowney, Prentice Hall, *in Press*.

#### **Technical Report**

1. Jahan, K. (2003) Novel Membrane Process for Autotrophic Denitrification, Publication Date: July 2003 • Pages: 74 • ISBN: 1843396432 • Publisher: IWA and WERF

#### **Other**

1. Sukumaran, B., Dorland, D., **Jahan, K.**, Everett, J.W., Kadlowec, J., Gephardt, Z. and Chin, S. (2007) “Engineering Clinics: An Integration of Research into the Undergraduate Engineering Curriculum” in *Developing and Sustaining a Research-Supportive Curriculum: A Compendium of Successful Practices*, CUR Quarterly, 26(3), pp. 115-121, Edited by Kerry K. Karukstis, and Timothy E. Elgren.

2. *A Technical Guide to the Watersheds of Gloucester County: A Teacher's Guide*  
Prepared by the Delaware Valley Regional Planning Commission and Rowan University (DeMond Miller, **K. Jahan**, Joseph Orlins, John Hasse, Jess Everett), September 2004.

### **Technical /Education Articles (Peer Reviewed)**

#### **Journals**

#### **In Preparation**

- **Jahan, K.** and J. W. Everett “Reverse Engineering of Water Filters”, *International Journal of Engineering Education*.
- **Jahan, K.**, and M. Denafio, “Arsenic Removal using Phytoremediation”, *Environmental Technology*.

#### **Published**

29. Christopher G. Schmit, Eyyüp Debik, **Kauser Jahan**, Venkatram Mahendraker, and Vikram Pattarkine (2008) Activated Sludge and Other Aerobic Suspended Culture Processes,” *Water Environment Research*, 2008, *submitted*.
28. **Jahan, K.**, Ordonez, R., R. Ramachandran, Shira Perlis and M. Sterner (2008) “Biodegradation Kinetics of Nonylphenol”, *Water, Air and Soil Pollution, In Print*.
27. Christopher G. Schmit, Eyyüp Debik, **Kauser Jahan**, Venkatram Mahendraker, and Vikram Pattarkine (2007) Activated Sludge and Other Aerobic Suspended Culture Processes,” *Water Environment Research*, 2007, **66** , pp. 1297-1362(66).
26. Mehta, Y.A., Arledge, B., Veasy, R., Maurer K., Garcia D., Suazo Davila, D., **Jahan, K.** (2007) Evaluation of Effect of Volume and Length of Jute on Mechanical Properties of Asphalt Cement and Asphalt Concrete *The Journal of Solid Waste Technology and Management*, **Vol. 33. No. 2**, pp. 75-91.
25. **Jahan, K.** and Y. Mehta (2007) Sustainability across the Curriculum, *Intl. J. Engg. Edu.*, 23(2), 209-217.
24. Everett, J., M. Cinaglia, D. Cleary, K. **Jahan**, J. Orlins, B. Sukumaran, Y. Mehta (2006) “Garden City: A Distributed Sharing Community”, *World Transactions on Engineering and Technology Education*, 5(3):497-500.

23. **Everett, J.**, L. Head, B. Sukumaran, J. Orlins and **K. Jahan** (2006) “Field Experiences in Engineering Courses”, World Transactions on Engineering and Technology Education, 4(2):269-272.
22. Christopher G. Schmit, Eyyüp Debik, **Kauser Jahan**, Venkatram Mahendrakar, and Vikram Pattarkine (2006) Activated Sludge and Other Aerobic Suspended Culture Processes,” *Water Environment Research*, Vol. 63, 1261-1323.
21. Polikar, R., **Jahan, K.** and B. Healy (2006) A combined pattern separability and two-tiered classification approach for identification of binary mixtures of VOCs, *Sensors and Actuators B* 116, 174–182.
20. **Jahan, K.** and M. Savelski (2006) Research Experiences for Undergraduates in Pollution Prevention and Sustainability, *WSEAS Transactions on Advances in Engineering Education*, Issue 5, Vol. 3, 277-280.
19. **Jahan K.**, P. Mosto, C. Mattson, E. Frey, and L. Derchak (2006) “Microbial Removal of Arsenic,” *Water, Air and Soil Pollution*, Volume 6, Numbers 1-2, 71 – 82.
18. Everett, J., **K. Jahan**, L. Head, J. Orlins, D. Cleary. and B. Sukumaran (2005), “Field Experiences in Engineering Courses,” *World Transactions on Engineering and Technology Education*, Vol.4, No.2, 269-272.
17. **Jahan, K.**, G. Tang, and W. Riddell (2005), “Hands on an Aquarium,” *World Transactions on Engineering and Technology Education*, Vol.4, No.2, 177-180.
16. **Jahan, K.**, J.W. Everett and M. Savelski (2005) The Value of Undergraduate Research, *World Transactions on Engineering and Technology Education*, Vol.4, No.1, 67-70.
15. Ellis, T., **Jahan, K.**, Schmit, C., E. Debik and Eliosov, B. (2005) “Activated Sludge and Other Aerobic Suspended Culture Processes” *Water Environment Research*, Vol. 77, No. 6.
14. **Jahan, K.**, John Chen, Shreekanth Mandayam, Robert Krchnavek, Beena Sukumaran, Yusuf Mehta, Jennifer Kadlowec, Paris von Lockette, Robi Polikar (2004) Digital Imaging Experiences for Undergraduate Engineering Students, *World Transactions on Engineering and Technology Education*, Vol. 3, No.2, 227-230.
13. Mehta, Y.A., **Jahan, K.**, Laicovsky, J., Miller, L., and Lozano, A. (2004) "Evaluating the Effect of Coarse And Fine Rubber Particle on Laboratory Rutting Performance of Asphalt Concrete Mixtures." *Journal of Solid Waste Technology and Management*, Vol. 30, No. 2.

12. Ellis, T., **Jahan, K.**, Venkatasubbiah, V., Schmit, C. and Eliosov, B. (2004) "Activated Sludge and Other Aerobic Suspended Culture Processes" *Water Environment Research*.
11. **Jahan, K.**, J. Everett, R. P. Hesketh , P. Jansson and K. Hollar (2004) "Environmental Education for All Engineers", *Water Science and Technology*, 49(8).
10. Ellis, T., **Jahan, K.**, Venkatasubbiah, V., Schmit, C. and Eliosov, B. (2003) "Activated Sludge and Other Aerobic Suspended Culture Processes" *Water Environment Research*, Vol.76, No. 4.
9. Ciocco, M. Neyhart, J., Mandayam, S., **Jahan, K.** and D. Cleary (2002) "Ultrasonic Imaging of defects in concrete pipelines", Review of Progress in *Quantitative Nondestructive Evaluation*, Vol. 22, 2002.
8. Riffat, R., **Jahan, K.**, and Tallent, R. (2002) "Anaerobic Processes", *Water Environment Research*, Vol.74, No. 4.
7. Ellis, T., **Jahan, K.**, Venkatasubbiah, V., Schmit, C. and Eliosov, B. (2002) "Activated Sludge and Other Aerobic Suspended Culture Processes" *Water Environment Research*, Vol.74, No. 4.
6. Ellis, T., **Jahan, K.**, Venkatasubbiah, V., Schmit, C. AND Eliosov, B. (2001) "Activated Sludge and Other Aerobic Suspended Culture Processes" *Water Environment Research*, Vol.73, No. 5.
5. Mandayam, S., **Jahan, K.** and D. Cleary (2001) "Ultrasound Inspection of wastewater concrete pipeline-signal processing and defect characterization" *Review of Progress in Quantitative Nondestructive Evaluation*, Vol. 20, No. 2, 1210-1217.
4. **Jahan, K.**, Ahmed, T. and Maier, W. J. (1998) "Modeling of surfactant enhanced biodegradation of phenanthrene", *Water Research*, Vol.33, No.9, 2181-2193.
3. **Jahan, K.**, Ahmed, T. and Maier, W. J. (1997)"Factors affecting the nonionic surfactant enhanced biodegradation of phenanthrene in the soil", *Water Environment Research*, 69:3:317.
2. Ahmed, T., Boyce, S. R. and **Jahan, K.**, "Performance of a transverse flow bubbleless membrane aerator", *Toxicological and Environmental Chemistry*, Vol.64:15-32, 1997.
1. **Jahan, K.**, Ahmed, T. and Maier, W. J.,"Phenanthrene mineralization in soil in the presence of nonionic surfactants", *Toxicological and Environmental Chemistry*, Vol. 64: 127-143, 1997.

### Peer Reviewed Technical Conference Proceedings

56. Jahan, K., Ryan Smith, Danielle Scrivani, Daniel Giacobbe, John McDonough and Alvin Addu (2008) Fate Of N-Nitrosodimethylamine (NDMA) *Proceedings of the 2008 Waste Management Conference*. Granada, Spain, June 2-4, 2008.
55. Jahan, K., Balzer, S. and Mosto, P. (2008) Toxicity of Nonionic Surfactants, 2008 *Proceedings of the Environmental Toxicology Conference*. Granada, Spain, June, 4-6, 2008.
54. **Jahan, K.**, D. Scrivani, D. Giacobbe and R. Smith (2007) NDMA Proceedings of the 37th Annual Mid-Atlantic Industrial and Hazardous Waste Conference, Cincinnati, Ohio.
53. DeNafo, M. and **K. Jahan** (2007) Arsenic Removal using Phytoremediation, Proc. 2007 ASCE/EWRI World Water & Environmental Resources Congress, Tampa, Florida.
52. DeNafo, M. and **K. Jahan** (2007) Arsenic Removal using the Chinese Brake Fern, Proceedings of the 37th Annual Mid-Atlantic Industrial and Hazardous Waste Conference, Cincinnati, Ohio.
51. **Jahan, K.**, Raúl Ordóñez, Ravi Ramachandran, Shira Perlis and Michael Stern (2007) Modeling Biodegradation of Nonylphenol, Proceedings of the 37th Annual Mid-Atlantic Industrial and Hazardous Waste Conference, Cincinnati, Ohio.
50. **Jahan, K.**, J. Orlins, J. Hasse, J. Everett, D. Miller and M. Weaver (2006) Wastewater Reclamation and Reuse in Southern New Jersey, Proceedings of the International Symposium on Environment ATINER Conference, Athens, Greece.
49. **Jahan, K.** and D. Garcia (2006) "Fecal Coliform Impairment in Edwards Run, New Jersey," Proc. 2006 ASCE/EWRI World Water & Environmental Resources Congress, Omaha, Nebraska.
48. **Jahan K.**, W. Walker, J. Orlins and D. Miller (2006) "Wastewater Reuse Options for Gloucester County, New Jersey," Proc. 2006 ASCE/EWRI World Water & Environmental Resources Congress, Omaha, Nebraska.
47. DeMond Miller, **Kauser Jahan**, Joseph Orlins, Mark Weaver, John Hasse, Jess Everett, Jason Rivera, and Charles Ozuna, (2005) "The Water Reuse Toolbox: Overcoming Public Opposition to Water Reuse." The 31<sup>st</sup> Annual Meeting of the Mid-South Sociological Association. October 26-29, 2005. Atlanta, Ga.
46. **Jahan, K.**, C. Mattson, J. Orlins, J. Hasse, J. Everett, D. Miller and Mark Weaver (2005) "Feasibility of Wastewater Reuse In Southern New Jersey", Proceedings of the 2nd Joint Specialty Conference for Sustainable Management of Water Quality Systems for the 21st Century, San Francisco, CA.

45. DeMond Miller, **K. Jahan**, Joseph Orlins, Mark Weaver, John Hasse, Jess Everett, Jason Rivera, and Charles Ozuna (2005) "The Water Reuse Toolbox: Overcoming Public Opposition to Water Reuse." Proceedings of the 31<sup>st</sup> Annual Meeting of the MidSouth Sociological Association. October 26-29, 2005. Atlanta, Ga.
44. **Jahan, K.**, C. Mattson, V. Joshi and G. Berg (2005) "Impact of Wastewater Reuse in Burlington County New Jersey on Adjacent Wetlands", Proceedings of the ASCE/EWRI World Water & Environmental Resources Congress, Anchorage, Alaska.
43. **Jahan, K.**, C. Mattson, V. Joshi and G. Berg (2005) "Beneficial Reuse of Wastewater for Burlington County in New Jersey", Proceedings of the Engineering Sustainability Conference, Pittsburg, PA.
42. **Jahan, K.**, P. Mosto, C. Mattson, E. Frey, L. Castano and L. Derchak (2005) "Arsenic Removal by Microorganisms", Proceedings of the 8th International In-Situ and On-Site Bioremediation Symposium, Baltimore, MD.
41. **Jahan, K.**, P. Mosto, C. Mattson, E. Frey and L. Derchak (2004) "Microbial Removal of Arsenic", Proceedings of the 36th Annual Mid-Atlantic Industrial and Hazardous Waste Conference, Storrs, CT.
40. **Jahan, K.**, P. Mosto and L. Derchak (2004) "Metal Uptake by Algae", Proceedings of the Second International Conference on Waste Management and the Environment, Rhodes, Greece.
39. **Jahan, K.** and R. Polikar (2004) "Review of Odor Assessment using Enose Systems in Wastewater Treatment Plants" *Proceedings of the Enviro Aust Conference*, Sydney, Australia, 28 March-April 1, 2004.
38. **Jahan, K.**, J. Everett, D. Miller, J. Orlins, J. Hasse, K. Freeman, K. Russell, A. Oyetimein, and M. Krzmarzyk "Community Outreach for Watershed Protection" *Proceedings of WEF Watershed Conference 2004*, Dearborn, MI. July 2004.
37. **Jahan, K.**, J. Everett, D. Miller, J. Orlins, J. Hasse, K. Freeman, K. Russell, A. Oyetimein, and M. Krzmarzyk (2003) "Water Quality Assessment for a New Jersey Watershed" " Proceedings of the 35th Annual Mid-Atlantic Industrial and Hazardous Waste Conference, Brooklyn, NY.
36. **Jahan, K.**, Robi Polikar, Paul Wittholn, Hugette Mualem and Michael Faith (2003), "Identification of Biosolids Odors using Electronic Nose Technology", Proceedings of the Eighteenth International Conference on Solid Waste Technology and Management, Philadelphia, Pennsylvania, March 23-26, 2003.

35. Shah, V., Ordonez, R., **Jahan, K.** and R. Ramachandran (2003) "Nonlinear System Identification of Nonylphenol Biodegradation Kinetics", Proceedings of the IEEE CCA/ISIC Conference, Bangkok, Thailand.
34. **Jahan, K.**, T. Ahmed and Agnieszka Pierkiel (2002) "Hydrogen Gas Transfer through Hollow Fiber Membranes", Proceedings of the Annual Conference of the North American Membrane Society, Long Beach, CA, June 2002.
33. Pierkiel, A., **Jahan, K.** and T. Ahmed (2002) "Hydrogen delivery through hollow fiber membranes for autotrophic denitrification" Extended Abstract, NJAWWA Annual Conference, Atlantic City, NJ.
32. **Jahan, K.**, and Agnieszka Pierkiel (2002) "Membrane Assisted Denitrification", Proceedings of the 2002 Water Environment Federation Annual Conference, Chicago, IL, Sept 2002.
31. **Jahan, K.**, Nora Han, Shira Perlis, M. Sterner and Margaret Jacques (2002) "Biodegradation of Nonylphenol", Proceedings of the 2002 Water Environment Federation Annual Conference, Chicago, IL, Sept 2002.
30. Pierkiel, A., **K. Jahan** and T. Ahmed (2001) "Membrane Enhanced Autotrophic Denitrification of Drinking Water" Proceedings of the Nineteenth Annual Membrane/Separations Technology Planning Conference, (Dec. 2001) Boston, MA.
29. Shah, V., Ordonez, R., **Jahan, K.** and R. Ramachandran (2001) "Nonlinear System Identification of Nonylphenol Biodegradation", Proceedings of the IEEE CCA/ISIC Conference, Mexico City, Mexico.
28. **Jahan, K.**, Marcus Roorda and Margaret Jacques, (2001) "Nonylphenol in Sewage Sludge", Proceedings of the IWA Specialized Conference on Sludge Management, Acapulco, Mexico.
27. **Jahan, K.**, Marcus Roorda, Shira Perlis and Margaret Jacques (2001) "Nonionic Surfactants in Wastewater Treatment Plants", Proceedings of the 2001 Water Environment Federation Annual Conference, Atlanta, GA, Oct. 2001.
26. **Jahan, K.**, M. J. Semmens and Agnieszka Pierkiel, "Membrane Processes in Wastewater Treatment", Proceedings of the 2001 Membrane Workshop, Annual Conference, Water Environment Federation, Atlanta, GA, Oct. 2001.
25. **Jahan, K.**, and Agnieszka Pierkiel, "Autotrophic Denitrification Using Hydrogen Oxidising Bacteria", Proceedings of the 2001 Membrane Workshop, Annual Conference, Water Environment Federation, Atlanta, GA, Oct. 2001.

24. **Jahan, K.**, Claire Steager, Tariq Ahmed and Shira Perlis, "Use of Membranes in Autotrophic Denitrification", Annual Conference of the Air Waste Management Association, Orlando, FL, June 2001.
23. **Jahan, K.**, Marcus Roorda, Shira Perlis and Margaret Jacques, "Fate of Nonionic Surfactants in the Environment", The 6<sup>th</sup> International Symposium on In-Situ and On-site Bioremediation, San Diego, CA, June 2001.
22. **Jahan, K.**, Marcus Roorda and Margaret Jacques, "Nonylphenol and its Metabolites in Sewage Sludge", Proceedings of the Sixteenth International Conference on Solid Waste Technology and Management, Philadelphia, Pennsylvania, Dec. 3-7, 2000.
21. S. Mandayam, **K. Jahan** and D. B. Cleary, "Ultrasonic Based Defect Characterization in Wastewater Concrete Pipelines Using Invariance Transformation Techniques", Proceedings of the 2000 Water Environment Federation Annual Conference, Anaheim, CA, Oct. 2000.
20. **Jahan, K.** and Ahmed T., "Fate and Transport of Nonionic Surfactants in Wastewater Treatment Plants", Proceedings of the 32nd Mid-Atlantic Industrial and Hazardous Waste Conference, Troy, NY, June 2000.
19. S. Mandayam, **K. Jahan** and D. B. Cleary, "Ultrasound Inspection of Wastewater Concrete Pipelines - Signal Processing and Defect Characterization", Annual Review of Progress in Quantitative Nondestructive Evaluation (QNDE), Ames, Iowa, July 16-21, 2000.
18. **Jahan, K.**, Gratton, D., Halupke, M. and E. Rothblath., "Effect of Nonionic Surfactants on Wastewater Treatment Plants", Proceedings of the Annual Conference of the Water Environment Federation, New Orleans, LA, Oct. 1999.
17. **Jahan, K.** and C. Steager, "Defining Biosolids Stability", Proceedings of the Fifteenth International Conference on Solid Waste Technology and Management, Philadelphia, Pennsylvania, Dec. 13-15, 1999.
16. Everett, J. and **K. Jahan**, "Brownsfield Outreach with a multidisciplinary team of junior undergraduate engineering students", Proceedings of the Annual Conference of the Air & Waste Management Association, St. Louis, MI, June, 1999.
15. **Jahan, K.**, Gratton, D. and Conroy, C., "Biodegradation of Nonionic Surfactants", Proceedings of 1998 Water Environment Federation Annual Conference, Orlando, FL, Oct. 1998.
14. **Jahan, K.**, Howard, J. and Ahmed, T., "Nitrate Removal from Septic Tank Effluent using an Aggregate Filter", Proceedings of 1998 Water Environment Federation Annual Conference, Orlando, FL, Oct. 1998.
13. **Jahan, K.**, "Surfactant Enhanced Biodegradation of Slightly Soluble Organic Compounds", Proceedings of the 30th Mid-Atlantic Industrial and Hazardous Waste Conference, Philadelphia, PA July 1998.

12. **Jahan, K.**, Maez, J. and Ahmed, T., "Use of domestic septage for reclaiming nutrient deficient land", Proceedings of the Thirteenth International Conference on Solid Waste Technology and Management, Philadelphia, Pennsylvania, Nov. 16-19, 1997.
11. **Jahan, K.**, Thai, L. T., Maier, W. J. and Ahmed, T., "Modeling of surfactant enhanced biodegradation of Octadecane", Proceedings of 1997 Water Environment Federation Annual Conference, Chicago, IL.
10. Thai, L. T., **Jahan, K.**, Ahmed, T. and Maier, W. J., "Solubilization and biodegradation of octadecane in the presence of nonionic surfactants", Proceedings of 1996 Water Environment Federation Annual Conference, Dallas, TX.
9. S. Shestak, R. Schmidt and **Jahan, K.**, "Innovative TCE removal from contaminated groundwater", Proceedings of 1996 Water Environment Federation Annual Conference, Dallas, TX.
8. Norris, D. B., Ahmed, T. and **Jahan, K.**, "Biodegradation of phenanthrene in the presence of nonionic surfactants", Extended Abstracts for the I&EC Special Symposium, American Chemical Society, Birmingham, AL, September, 1996.
7. Benedict, S., Ahmed, T. and **Jahan, K.**, "Autotrophic denitrification using hydrogen oxidizing bacteria in continuous flow biofilm reactors", Extended Abstracts for the I&EC Special Symposium, American Chemical Society, Birmingham, AL, September, 1996.
6. **Jahan, K.**, Leo Drozdoff and Mahmood, A., "Nevada's Biosolids Reuse and Disposal Program in Compliance with 40 CFR § 503", Proceedings of 1996 Water Environment Federation 10th Annual Residuals/Biosolids Specialty Conference, Denver, Colorado.
5. **Jahan, K.**, Ahmed, T. and Maier, W.J., "Selection of Nonionic Surfactants in Enhancing Biodegradation of Phenanthrene in Soil", Proceedings of 1995 Water Environment Federation Annual Conference, Miami Beach, Florida.
4. **Jahan, K.**, Ahmed, T. and Maier, W.J., "Biodegradation of Phenanthrene in Soil in the presence of Nonionic Surfactant", Proceedings of International Congress on Hazardous Waste, ATSDR, Atlanta, Georgia, June 4-7, 1995.
3. **Jahan, K.** and W. J. Maier, "Biodegradation of phenanthrene in soil in the presence of nonionic surfactants: Column Experiments" Proceedings of 1994 WEF Annual Conference, October 15-19, Chicago, Illinois.
2. **Jahan, K.** and W. J. Maier, "Biodegradation of Phenanthrene in the Presence of Nonionic Surfactants", Proceedings of the 47th Annual Purdue Industrial Waste Conference, May 1992.

1. Yang, Byung S., **Jahan, K.** and Young, James C. (1987) “Modeling of anaerobic filter performance” *Proc. 8<sup>th</sup> Intl. Conf. Altern. Energy Sources*, Miami, Florida.

### **Engineering Education Articles (Peer Reviewed)**

---

74. **Jahan, K.** and K. Sernak (2007) Engineering Clinics for Middle School Teachers, Proceedings of the WEPAN Annual Conference, Orlando, FL.
73. **Jahan, K.** (2007) The Aquarium Project: Teaching Engineering Principles and Sustainability, Proceedings of the ASEE Annual Conference, Honolulu, HI.
72. **Jahan, K.** and K. Sernak (2007) Engineering Clinics for Teachers, Proceedings of the ASEE Annual Conference, Honolulu, HI.
71. Sukumaran, B., Dorland, D., **Jahan, K.**, Everett, J.W., Kadlowec, J., Gephardt, Z. and Chin, S. (2006) Engineering Clinics: An Integration of Research into the Undergraduate Engineering Curriculum, *Council on Undergraduate Research Quarterly* 26(3), 115–121.
70. L. Katz, B. Allenby, A. Bielefeldt, C. Davidson, J. Mihelcic, **K. Jahan** (2005) Introducing Sustainability Into Engineering Curriculum: Has the Wheel Finally Been Created?, Proceedings of the 2005 AEESP Research and Education Conference, Potsdam, NY.
69. **Jahan, K.**, C. Mattson, V. Joshi and G. Berg (2005) “Research Experiences in Pollution Prevention and Sustainability for Undergraduates”, Proceedings of the Engineering Sustainability Conference, Pittsburg, PA.
68. **Jahan, K.**, Gina Tang and William Riddell (2005) Teaching Engineering Principles Using an Aquarium, Proceedings of the Mid-Atlantic ASEE Spring Conference, Teaneck, New Jersey.
67. **Jahan, K.**, John Chen, Shreekanth Mandayam, Robert Krchnavek, Beena Sukumaran, Yusuf Mehta, Jennifer Kadlowec, Paris von Lockette, Robi Polikar (2005) A Picture is Worth a Thousand Words, Proceedings of the Mid-Atlantic ASEE Spring Conference, Teaneck, New Jersey.
66. Tang, G., L. Head, S. Mandayam and **K. Jahan** (2005) Attracting Women into Electrical and Computer Engineering, Proceedings of the ASEE Annual Conference, Portland, OR.
65. **Jahan, K.**, Mariano Savelski, Joseph Orlins, Yusuf Mehta, William Riddell, Stephanie Farrell, Gina Tang, Anthony Marchese, Paris von Lockette, Courtney Richmond, Catherine Yang, Beena Sukumaran, Patricia Mosto and Demond Miller (2005) Undergraduate Research Experiences in Pollution Prevention and Sustainability, Proceedings of the ASEE Annual Conference, Portland, OR.

64. **Jahan, K.**, Shreekanth Mandayam, Beena Sukumaran and Yusuf Mehta (2005) Digital Imaging Activities for Civil Engineering Students, Proceedings of the ASEE Annual Conference, Portland, OR.
63. **Jahan, K.**, Mariano Savelski, Joseph Orlins, Yusuf Mehta, William Riddell, Stephanie Farrell, Gina Tang, Anthony Marchese, Paris von Lockette, Courtney Richmond, Catherine Yang, Beena Sukumaran, Patricia Mosto and Demond Miller (2004) Research Experiences in Pollution Prevention and Sustainability for Undergraduates, Proceedings of the Mid-Atlantic ASEE Fall Conference, Washington D.C.
62. **Jahan, K.**, John Chen, Shreekanth Mandayam, Robert Krchnavek, Beena Sukumaran, Yusuf Mehta, Jennifer Kadlowec, Paris von Lockette, Robi Polikar (2004) Digital Imaging for Engineering Students, Proceedings of the Mid-Atlantic ASEE Fall Conference, Washington D.C.
66. Orlins, J., Miller, D., Hasse, J., Everett, J., and **Jahan, K.** (2004) “Watershed Assessment through Undergraduate Research,” 2004 EWRI World Water and Environmental Resources Congress, Salt Lake City, Utah.
61. Everett, J.W., **K. Jahan**, B. Sukumaran, Y. Mehta, J. Orlins, D. Cleary and M. Gross (2004) “Garden City – Design Across the Curriculum”, Proceedings of the ASEE Annual Conference, Salt Lake City, UT.
60. **Jahan, K.**, John Chen, Shreekanth Mandayam, Robert Krchnavek, Beena Sukumaran, Yusuf Mehta, Jennifer Kadlowec, Paris von Lockette, Robi Polikar (2004) Digital Imaging for Engineering Students, Proceedings of the ASEE Annual Conference, Salt Lake City, UT.
59. **Jahan, K.**, Stephen Diglio, Joseph Michiels, Matt McGill and Jess W. Everett (2003) A Field/Laboratory Module for Stream Sediment Analyses, Proceedings of the Mid-Atlantic ASEE Fall Conference, Baltimore, MD.
58. **Jahan, K.**, G. Tang, S. Gatling and K. Freeman (2003) “Undergraduate Research Experiences in Pollution Prevention” Proceedings of the Mid-Atlantic ASEE Fall Conference, Baltimore, MD.
57. **Jahan, K.**, John Chen, Shreekanth Mandayam, Robert Krchnavek, Beena Sukumaran, Yusuf Mehta, Jennifer Kadlowec, Paris von Lockette, Robi Polikar (2003) Digital Imaging Across the Curriculum, Proceedings of the Mid-Atlantic ASEE Fall Conference, Baltimore, MD.
55. Orlins, J., Miller, D., Hasse, J., Everett, J., **Jahan, K.** (2003). “The Rowan University Community Partnership: Conveying Stormwater Information to Diverse Communities” *Proc., 2003 Pennsylvania Stormwater Management Symposium*, Villanova Urban Stormwater Partnership, Villanova University.

56. **Jahan, K.**, J. Everett, R. P. Hesketh , P. Jansson and K. Hollar (2003) “Environmental Education for All Engineers”, Proceedings of the IWA Environmental Engineering Education Conference, Zurich, Switzerland, Sept. 23-27.
55. **Jahan, K.**, J. Everett, J. Orlins, R. Hesketh, S. Farrell, M. Savelski, K. Hollar, R. Polikar and Y. Mehta (2003) “Undergraduate Research in Pollution Prevention”, Proceedings of the Annual EWRI Conference, Philadelphia, PA.
54. **Jahan, K.** (2003) “An Introductory Course in Environmental Engineering” Proceedings of the Annual ASEE Conference, June 2003, Nashville, TN.
53. S. Farrell, **K. Jahan**, J. Newell and R.P. Hesketh (2002) “Product Design Experiences For Engineering Students” Proceedings of the ICEE Conference, Manchester, U.K.
52. **Jahan, K.**, S. Farrell and R.P. Hesketh (2002) “Early Process Design Experiences For Engineering Students” Proceedings of the ICEE Conference, Manchester, U.K.
51. **Jahan, K.** (2002) “Planning and Implementing an Outreach Program for Women in Engineering” Proceedings of the ICEE Conference, Manchester, U.K.
50. **Jahan, K.**, Jesse Condon, Chasity Williams and Benjamin Fratto (2002) “Designing a Lab-Scale Water Treatment Plant” Proceedings of the ICEE Conference, Manchester, U.K.
49. **Jahan, K.**, S. Chin And Melanie Basantis, (2002) “Impact of Research Experiences on Female Engineering Students” Proceedings of the Annual WEPAN Conference, June 2002, San Juan, Puerto Rico.
48. Everett, J.W., **Jahan, K.**, B. Sukumaran, Y. Mehta, J. Orlins, D. Cleary, M. Cinaglia, Eric Hansen, D. Cissi, B.Cleary, and L. Coleman (2002) “Garden City – A Virtual City for Undergraduates”, Proceedings of the Annual ASEE Conference, June 2002, Montreal.
47. **Jahan, K.**, K. Hollar, L. Head, E. Constans And P. Von Lockette (2002) “Getting Students to Think About Alternate Energy Sources”, Proceedings of the Annual ASEE Conference, June 2002, Montreal.
- 46 **Jahan, K.**, Jesse Condon, Chasity Williams and Benjamin Fratto (2002) “Membrane Experiments for Pollution Prevention” Proceedings of the Annual ASEE conference, June 2002, Montreal.
45. **Jahan, K.**, J. Everett, J. Orlins, R. Hesketh, S. Farrell, M. Savelski, K. Hollar, L. Head and R. Ordonez (2002) “ Research Experiences in Pollution Prevention”, Proceedings of the Annual ASEE conference, June 2002, Montreal.
44. **Jahan, K.**, B.Sukumaran, J. Kadlowec and H. Hartman (2002) “History of Women in Engineering”, Proceedings of the Spring Mid Atlantic ASEE conference, April 2002, West Point, NY.

43. **Jahan, K.**, J. Everett, J. Orlins, R. Hesketh, S. Farrell, M. Savelski, K. Hollar, L. Head and R. Ordonez, (2002) “ Research Experiences for Undergraduates in Pollution Prevention”, Extended Abstract, Proceedings of the Spring Mid Atlantic ASEE conference, April 2002, West Point, NY.
42. **Jahan, K.**, S. Perlis, M. Roorda and M. Jacques (2001) “ The Value of Undergraduate Research”, Proceedings of the 2001 Mid Atlantic Fall Conference, November, Staten Island, New York.
40. **Jahan, K.**, Marchese, A.J., Hesketh, R.P. and J. Schmalzel. “Design and Research Across the Curriculum: *The Rowan Engineering Clinics*”, Proceedings of the 2001 ICEE Conference, August 2001, Oslo, Norway.
39. **Jahan, K.**, B. Sukumaran, L. Head, J. Kadlowec and Z.O. Gephardt. (2001) “Attracting Women into Engineering”, Proceedings of the 2001 ICEE Conference, August 2001, Oslo, Norway.
38. Jess Everett, **K. Jahan**, L. Head, B. Sukumaran, J. Orlins (2001) “Field Experiences in the Engineering Curriculum”, Proceedings of the Annual ASEE Conference, June 2001, Albuquerque, New Mexico.
37. Jess Everett, R. Dusseau, **K. Jahan**, C. Sun, B. Sukumaran, J. Orlins and D. B. Cleary (2001) “ A Civil Engineering Program Developed in the Age of ABET 2000” Proceedings of the Annual ASEE Conference, June 2001, Albuquerque, New Mexico.
36. D.B. Cleary and **Jahan, K.** (2001) “Redesigning a Senior Capstone Course in Civil Engineering”, Proceedings of the Annual ASEE Conference, June 2001, Albuquerque, New Mexico
35. **Jahan, K.**, B. Sukumaran, L. Head J. Kadlowec and Z.O. Gephardt (2001) “Implementing Successful Outreach Programs for Women in Engineering” Proceedings of the Annual ASEE Conference, June 2001, Albuquerque, New Mexico.
34. **Jahan, K.** and Raul Ordonez (2001) “Modeling Biodegradation Kinetics using MatLab<sup>®</sup>” Proceedings of the Annual ASEE Conference, June 2001, Albuquerque, New Mexico.
33. **Jahan, K.**, S. Mandayam and D.B. Cleary (2001) “Multidisciplinary Research using Nondestructive Evaluation” Proceedings of the Annual ASEE Conference, June 2001, Albuquerque, New Mexico.
32. **Jahan, K.**, B. Sukumaran, L. Head, J. Kadlowec and Z.O. Gephardt (2001) “ Implementing A Successful Outreach Program for Women in Engineering”, Proceedings of the Annual ASEE conference, June 2001, Albuquerque, New Mexico.

31. Jess Everett, **Jahan, K.**, L. Head, B. Sukumaran, J. Orlins (2001) "Taking Lab Exercises Outside and Across Years: The Field Experiences Project", Proceedings of the Annual Conference of the Air & Waste Management Association, Orlando, FL, June, 2001.
30. Slater, C.S., R.P. Hesketh, S. Farrell, K. Dahm, **Jahan, K.** and Z.O. Keil (2001) "Exposure to Novel Processes through a Project Intensive Curriculum", Proceedings of the AIChE Annual Meeting, Los Angeles, CA Nov. 2001.
29. **Jahan, K.**, B. Sukumaran, L. Head, J. Kadlowec and Z.O. Gephardt (2001) "Cost Effective Engineering Modules for Outreach", Proceedings of the Annual Conference of WEPAN (Women in Engineering Programs & Advocate Networks), Alexandria, VA, April 2001
28. Slater, C.S., R.P. Hesketh, S. Farrell, K. Dahm and **Jahan, K.** (2001) "A Project-Based Approach to Teaching Membrane Technology", Proceedings of the Annual ASEE conference, June 2001, Albuquerque, New Mexico.
27. Jess Everett, M. Ciocco, G. Roames, M. Cinaglia, D. Cleary, **Jahan, K.**, J. Orlins, B. Sukumaran, and C. Sun (2001) "Garden City – A Virtual City for Undergraduates", Proceedings of the Spring Mid Atlantic ASEE conference, April 2001, Glassboro, New Jersey.
26. **Jahan, K.**, S. Perlis and C. Steager, (2001) "Gas Transfer Using Hollow Fiber Membranes" Proceedings of the Spring Mid Atlantic ASEE conference, April 2001, Glassboro, New Jersey.
25. **Jahan, K.**, B. Sukumaran, L. Head, J. Kadlowec and Z.O. Gephardt, (2000) "Attracting and Mentoring Women into Engineering", Proceedings of the Spring Mid Atlantic ASEE conference, April 2001, Glassboro, New Jersey.
24. Slater, C.S., R.P. Hesketh, S. Farrell, K. Dahm, **Jahan, K.** and Z.O. Keil, (2000) "Using Membrane Process Experiments in a Project-Oriented Environment", Proceedings of the 2000 Annual ASEE conference, St. Louis, MO., June 2000.
23. Marchese, A. J., Schmalzel, J. L., Hesketh, R. P., **Jahan, K.**, and Ramachandran, R. P. (2000) "The Competitive Assessment Laboratory at Rowan University", Poster for the Annual ASEE Conference, St. Louis, MO., June 2000.
22. **Jahan, K.**, B. Sukumaran, L. Head and Z.O. Keil, (2000) "AWE: An Outreach Workshop for Middle School Girls", Proceedings of the 2000 Annual ASEE conference, St. Louis, MO.
21. **Jahan, K.**, B. Sukumaran, L. Head and Z.O. Keil , (2000) "AWE: A Workshop for Attracting Middle School Girls", Annual Conference of WEPAN (Women in Engineering Programs & Advocate Networks), Washington DC, June 2000.
20. Cleary, D., Dusseau, R., **Jahan, K.**, Everett, J., and Sukumaran, B., (1999) "Addressing the Professional Practice Criteria of ABET 2000, Proceedings of the Middle Atlantic Section Fall 1999 Regional Conference, Harrisburg PA, November 5-6, 1999.

19. **Jahan, K.**, B. Sukumaran, L. Head and Z.O. Keil, (2000) "AWE: An Attracting/Mentoring Program for Girls", Proceedings of the Annual SWE Conference, Washington DC, June 2000.
18. **Jahan, K.**, B. Sukumaran, L. Head, Z.O. Keil, J. Ferraris, S. Perlis, L. Callahan and M. Jacques (1999) "Mentoring Experiences by Faculty and Students", Proceedings of the Middle Atlantic Section Fall 1999 Regional Conference, Harrisburg PA, November 5-6, 1999.
17. **Jahan, K.**, B. Sukumaran, L. Head and Z.O. Keil (1999) "AWE: Attracting Women into Engineering" Proceedings of the Middle Atlantic Section Fall 1999 Regional Conference, Harrisburg PA, November 5-6, 1999.
16. **Jahan, K.** (1999) "Water treatment in reverse", Proceedings of the 1999 Annual Conference of ASEE, Charlotte, North Carolina, June 1999.
15. **Jahan, K.** (1999) "An innovative environmental design module", Proceedings of the 1999 Annual Conference of ASEE, Charlotte, North Carolina, June 1999.
14. **Jahan, K.** and R.A. Dusseau, "Water Treatment through Reverse Engineering", Proceedings of the Middle Atlantic Section Fall 1998 Regional Conference, Washington D.C., November 6-7, 1998.
13. B. Sukumaran and **Jahan, K.**, "The Engineering Workplace- is it conducive for women", Proceedings of the Middle Atlantic Section Fall 1998 Regional Conference, Washington D.C., November 6-7, 1998.
12. Z.O. Keil, B. Sukumaran and **Jahan, K.** "Multidisciplinary design for sophomores", Proceedings of the Middle Atlantic Section Fall 1998 Regional Conference, Washington D.C., November 6-7, 1998.
11. **Jahan, K.**, "Design for the Environment", Proceedings of the 1998 Annual Conference of ASEE, Seattle, Washington, June, 1998.
10. J.L. Schmalzel, **K. Jahan**, Marchese, A. J., Hesketh, R.P., C.S. Slater, T.R.Chandrupatla and R.A. Dusseau,, "Engineering Design in the Sophomore Clinics ", Proceedings of the 1998 Annual Conference of ASEE, Seattle, Washington, June, 1998.
9. **Jahan, K.** and R.A. Dusseau, "Teaching Civil Engineering Measurements through Bridges", Proceedings of the 1998 Annual Conference of ASEE, Seattle, Washington, June, 1998.
8. **Jahan, K.**, Marchese, A. J., Hesketh, R.P., C.S. Slater, J.L. Schmalzel, T.R.Chandrupatla and R.A. Dusseau,, "Engineering Measurements and Instrumentation for a Freshman Class ", Proceedings of the 1998 Annual Conference of ASEE, Seattle, Washington, June, 1998.

7. **Jahan, K.**, Keil, Z.O., Hartman, H. and J.R. Choudhury, "Women in Engineering in Bangladesh and the USA: A Comparative Study", Proceedings of the 1998 Annual Conference of ASEE, Seattle, Washington, June 1998.
6. **Jahan, K.** and R.A. Dusseau, "An Introduction to Environmental Design for Multidisciplinary Engineering Teams", Proceedings of the 1998 Annual Conference of ASEE, Seattle, Washington, June, 1998.
5. R. P. Hesketh, **Jahan, K.**, A. J. Marchese, R. P. Ramachandran, R. A. Dusseau, C. S. Slater, T. R. Chandrupatla, S. A. Mandayam and J. L. Schmalzel, "Introducing Freshmen to Engineering through Measurements", Proceedings of the ASEE Middle Atlantic Section Spring 1998 Regional Conference, Trenton, NJ, April 25, 1998.
4. **Jahan, K.**, Marchese, A. J., Hesketh, R.P., C.S. Slater, J.L. Schmalzel, T.R.Chandrupatla and R.A. Dusseau, "The Rowan Engineering Program: Preparing Students for the Future Job Market", Proceedings of the 1997 Zone I Fall Meeting, Wilmington, Delaware, October 31, 1997.
3. Marchese, A. J., Hesketh, R.P., **K. Jahan**, C.S.Slater, J.L. Schmalzel, T.R.Chandrupatla and R.A. Dusseau, " Design in the Rowan University Freshman Engineering Clinic", Proceedings of the 1997 Annual Conference of ASEE, Milwaukee, Wisconsin, June 15-18, 1997.
2. Hesketh, R.P., **K. Jahan**, A.J. Marchese, C.S.Slater, J.L. Schmalzel, T.R. Chandrupatla and R.A. Dusseau, "Multidisciplinary Experimental Experiences in the Freshman Engineering Clinic at Rowan University", Proceedings of the 1997 Annual Conference of ASEE, Milwaukee, Wisconsin, June 15-18, 1997.
1. Hesketh, R.P., **K. Jahan**, A.J. Marchese, C.S.Slater, J.L. Schmalzel, T.R.Chandrupatla and R.A. Dusseau, "Integrating Hands-on Education to Freshman Engineers at Rowan University", Proceedings of the 1997 ASEE Zone 1 Spring Meeting, West Point, New York, April 25-26, 1997.

### **EXTENDED ABSTRACTS**

**Jahan, K.**, S. Devillasanta and D. Garcia (2007) Water Quality Impairment at Edwards Run, *Abstract Proc. of the American Water Resources Association 2007 Annual Conference*, Albuquerque, NM.

**Jahan, K.** and K. Sernak (2007) The Rowan ECT Program, Proceedings of the Mid-Atlantic ASEE Spring Conference, Newark, New Jersey.

Garcia, D., Walker, W., Orlins, J., **Jahan, K.**, Everett, J., Miller, D., Hasse, J., Weaver, K. M. (2005), "Exploring Wastewater Reuse Alternatives in Southern New Jersey," *Abstract Proc. of the American Water Resources Association 2005 Annual Conference*, Seattle, WA. American Water Resources Association.

**Jahan, K.**, C. Mattson and G. Berg (2005) "Impact of Wastewater Reuse in Burlington County New Jersey on Adjacent Wetlands", Extended Abstract, 8<sup>th</sup> Annual Wetlands and Watersheds Workshop, Atlantic City, NJ.

Orlins, J., Miller, D., Hasse, J., Everett, J., **Jahan, K.** (2004). "Watershed Assessment with Undergraduate Research Students" *Abstract Proc. of the American Water Resources Association 2004 Annual Conference*, Orlando, FL. American Water Resources Association.

Orlins, J., Miller, D., Hasse, J., Everett, J., **Jahan, K.** (2003). "Bridging Environmental Information to Diverse Communities" *Abstract Proc. of the American Water Resources Association 2003 Annual Conference*, San Diego, CA. American Water Resources Association.

**Jahan, K.**, C. Mattson and G. Berg (2004) "Wastewater Reuse in Burlington County", Extended Abstract, Proceedings of the Annual AWRA Conference, Orlando, FL.

**Jahan, K.**, P. Mosto, C. Mattson and E. Frey (2004) "Metal Removal by Microorganisms", Extended Abstract, Proceedings of the Annual AWRA Conference, Orlando, FL.

Pierkiel, A., **K. Jahan** and T. Ahmed "Hydrogen delivery through membranes for autotrophic denitrification" Extended Abstract, NJIT Membrane Symposium, (Nov 15, 2001) Newark, NJ.

### **POSTER/PAPER AWARDS WITH STUDENTS**

31. Steven Devillasanta (2007) Water Quality Impairment at Edwards Run, **2<sup>nd</sup> Prize**, NJWEA Student Poster Competition, Atlantic City, New Jersey, May 2007.

30. L. DiGiovanni, W. Weaver and K. Marshall (2007) Non-Invasive Methods for Pipeline Inspection, **1<sup>st</sup> Prize**, NJWEA Student Poster Competition, Atlantic City, New Jersey, May 2007.

29. D. Scrivani and D. Giacobbe (2007) Photodegradation of NDMA, **2<sup>nd</sup> Prize**, NJAWWA Student Poster Competition, Atlantic City, New Jersey, March, 2007.

28. Ryan Smith (2007) Photodegradation of NDMA, **Best Paper Award**, National Engineers Week, Delaware Valley Engineers Council.

27. Matthew Denafio, J (2007) Phytoremediation of Arsenic, **3<sup>rd</sup> Prize, ASCE/EWRI Paper Competition**, Tampa, FL.

26. Walter Walker (2006) Wastewater Reuse for Gloucester County, **1<sup>st</sup> Prize**, Annual NJWEA Poster Competition, Atlantic City, May 2006.

25. Matthew Denafó, John Kalosy and Kristin Bacher (2006) Arsenic removal from Water, **1st Prize**, NJAWWA Student Poster Competition, Atlantic City, New Jersey, March, 2006.
24. Danielle Scrivani (2006) Wastewater Reuse for Gloucester County, **Best Paper Award**, National Engineers Week, Delaware Valley Engineers Council.
23. Erin Frey, Matthew Denafó and Kristin Bacher (2005) Arsenic removal from Water, **1st Prize**, NJAWWA Student Poster Competition, Atlantic City, New Jersey, March 23, 2005.
22. Matthew Denafó and Kristin Bacher (2005) “Arsenic Adsorption by Akaganeite” **Best Paper Award**, National Engineers Week, Delaware Valley Engineers Council.
21. Crystal Mattson and Erin Frey (2004) Microbial Removal of Arsenic, **1<sup>st</sup> Prize**, Annual NJWEA Poster Competition, Atlantic City, NJ, May 5, 2004.
20. Crystal Mattson (2004) “Innovative Removal of Arsenic” **Best Paper Award**, ASCE/EWRI Paper Competition.
19. Crystal Mattson (2004) “Arsenic Removal Using Microbes” **Best Paper Award**, National Engineers Week, Delaware Valley Engineers Council.
18. Crystal Mattson, Erin Frey and Lara Derchak (2004) Microbial Removal of Arsenic, First Prize NJWEA Student Poster Competition, Atlantic City, New Jersey, May 5, 2004.
17. Crystal Mattson, Erin Frey and Lara Derchak (2004) Microbial Removal of Arsenic, **Clinic Award**, Civil Engineering Program.
16. Crystal Mattson, Erin Frey and Lara Derchak (2004) Microbial Removal of Arsenic, **1st Prize**, NJAWWA Student Poster Competition, Atlantic City, New Jersey, March 31, 2004.
15. Witthohn, P. and Patrick Violante (2003) “Odor Detection in Biosolids using Electronic Nose Technology”, 2<sup>nd</sup> Prize NJWEA Conference, Atlantic City, May 2003.
14. Johanna Kline and Mike Kim (2003) “Autotrophic Denitrification using Hydrogen Oxygen Bacteria”. 2<sup>nd</sup> Prize, NJAWWA Conference, Atlantic City, NJ, April 2003.
13. Kline, Johanna (2003) “Modeling Autotrophic Denitrification Kinetics”, **Best Paper Award**, National Engineers Week, Delaware Valley Engineers Council.
12. Agnieszka Pierkiel “A Membrane Process for Nitrate Removal from Drinking Water”, **First Prize (Graduate Student)** at the Annual NJWEA Conference, Atlantic City, NJ, May 2002.
11. Agnieszka Pierkiel “A Membrane Process for Nitrate Removal from Drinking Water”, **First Prize (Graduate Student)** at the Annual NJAWWA Conference, Atlantic City, NJ, April 2002.

10. Laura Sorrentino and Jesse Condon “Metal Removal from Water Treatment Residuals by Algae”, **First Prize (Undergraduate)** at the Annual NJAWWA Conference, Atlantic City, NJ, April 2002.
9. Marcus Roorda, Shira Perlis and Margaret Jacques “Fate and Transport of Nonionic Surfactants and Their Biodegradation Intermediates”, **First Prize** at the Annual NJAWWA Conference, Atlantic City, NJ, April 2001.
8. Marcus Roorda, Shira Perlis and Margaret Jacques “Fate and Transport of Nonionic Surfactants and Their Biodegradation Intermediates in Wastewater Treatment Plants”, **First Prize** at the Annual NJWEA Conference, Atlantic City, NJ, May 2001.
7. C. Berg, M. Hayden and E. Rothblatt, (2000) “Fate of Surfactants in Wastewater Treatment Plants”, **1st Prize**, Annual Conference of the New Jersey Water Environment Association.
6. Oropollo, J. and A. Pierkiel, (1999) “Toxicity of Nonionic Surfactants” Environmental Ethics Conference, Rowan University, **Ist Prize**.
5. Gratton D., Halupke, M. and E. Rothblatt, (1999) “Effect of Surfactants on Foaming in Wastewater Treatment Plants”, **2nd Prize**, Annual Conference of the New Jersey Water Environment Association.
4. DiTonno, J. and Roorda, W (1999), "Hollow Fiber Membrane Applications in Water and Wastewater Treatment" **1<sup>st</sup> Prize**, Annual Conference of the New Jersey American Water Works Association.
3. Fratto, B., Callahan, L., Chaubal, A., Kahn, R. and . (1999), ‘Reverse Engineering of Water Filters’, **3<sup>rd</sup> Prize**, Annual Conference of the New Jersey American Water Works Association.
2. D. Gratton., and C. Conroy, (1998) “Biodegradation of Nonionic Surfactants”, **Best Paper Award**, National Engineers Week, Delaware Valley Engineers Council.
1. Courtwright, A. and F, Thompson. (1998), ‘Water Treatment in Reverse’, **3<sup>rd</sup> Prize**, Annual Conference of the New Jersey American Water Works Association.

### **OTHER STUDENT POSTER PRESENTATIONS**

Steven Devillasanta (2007) Water Quality Impairment at Edwards Run, Annual STEM Poster, Rowan University, April 2007.

L. DiGiovanni, W. Weaver and K. MARshall (2007) Non-Invasive Methods for Pipeline Inspection, Annual STEM Poster, Rowan University, April 2007.

D, Scrivani and D. Giacobbe (2007) Photodegradation of NDMA, Annual STEM Poster, Rowan University, April 2007.

- M. Denafó (2007) Phytoremediation of Arsenic, Annual STEM Poster, Rowan University, April 2007.
- Jahan K., W. Walker, J. Orlins, J.W. Everett and D. Miller “Wastewater Reuse in New Jersey”, Annual WEF Conference, Dallas, TX, October 2006.
- Miller, D., K. Jahan, J. Orlins, J. Everett, J. Hasse. An Application of Place Theory: Understanding Nonpoint Source Pollution in Watersheds. The 22nd Annual Meeting of the Society for Applied Sociology: November 4-6, 2005. Bethesda, MD.
- V. Lenoci and W. Walker (2005) Wastewater Reuse in Gloucester County, Annual STEM Poster Symposium, Rowan University, Glassboro, New Jersey, April 22, 2005.
- Erin Frey, Matthew Denafó and Kristin Bacher (2005) Arsenic removal from Water, Annual STEM Poster Symposium, Rowan University, Glassboro, New Jersey, April 22, 2005.
- V. Lenoci and W. Walker (2005) Wastewater Reuse in Gloucester County, NJAWWA Student Poster Competition, Atlantic City, New Jersey, March 23, 2005.
- Crystal Mattson, Erin Frey and Lara Derchak (2004) Microbial Removal of Arsenic, Annual STEM Poster Symposium, Rowan University, Glassboro, New Jersey, April 23, 2004.
- Crystal Mattson, Erin Frey and Lara Derchak (2004) Microbial Removal of Arsenic, Annual STEM Poster Symposium, Rowan University, Glassboro, New Jersey, April 23, 2004.
- Crystal Mattson, Erin Frey and Lara Derchak (2004) Microbial Removal of Arsenic, Annual STEM Poster Symposium, Rowan University, Glassboro, New Jersey, April 23, 2004.
- Newton, D., S. Diglio, J. Michiels, G. Speck, J. Orlins, J. Everett, K. Jahan, J. Hasse, D. Miller. (2003) “Watershed Assessment and Outreach Project” Rowan University 6<sup>th</sup> Annual STEM Poster Symposium. April 25, 2003. Glassboro, New Jersey.
- Kline, J. and K. Jahan (2002) “Autotrophic Denitrification of Nitrate in Drinking Water”, 34<sup>th</sup> Mid-Atlantic Industrial and Hazardous Waste Conference, New Brunswick, NJ, Sept. 2002.
- K. Jahan, R. Devadoss and K. Krause (2002) “Toxicity of Nonionic Surfactants”, 34<sup>th</sup> Mid-Atlantic Industrial and Hazardous Waste Conference, New Brunswick, NJ, Sept. 2002.
- K. Jahan, Rajitha Devadoss, Cliff Amundson, Laura Lugo, Steven Gladding, Devi Parikh, Stefan Krause, Jennifer Phelps, Monica Branco and John Salinas (2002) “Research Experiences in Pollution Prevention”, 34<sup>th</sup> Mid-Atlantic Industrial and Hazardous Waste Conference, New Brunswick, NJ, Sept. 2002.

Nora Han and K. Jahan (2002) "Biodegradation of Nonylphenol", 34<sup>th</sup> Mid-Atlantic Industrial and Hazardous Waste Conference, New Brunswick, NJ, Sept. 2002.

Kline, J. and K. Jahan (2002) "Autotrophic Denitrification of Nitrate in Drinking Water", Annual STEM Symposium, Rowan University, April 2003.

K. Jahan, Rajitha Devadoss, Cliff Amundson, Laura Lugo, Steven Gladding, Devi Parikh, Stefan Krause, Jennifer Phelps, Monica Branco and John Salinas (2002) "Research Experiences in Pollution Prevention", Annual STEM Symposium, Rowan University, April 2003.

Sorrentino, L. and Jesse Condon "Removal of Metals by Algae" Annual STEM Symposium, Rowan University, April 2002.

Pierkiel, A. and K. Jahan "A Novel Membrane Process for Autotrophic Denitrification" Annual STEM Symposium, Rowan University, April 2002.

Diglio, S., Nora Han, S. Cowan, M. Graham, F. Lau, H. Luong, G. Williams, E. Baincani and K. Krause "Research in Pollution Prevention" Annual STEM Symposium, Rowan University, April 2002.

Michael Sterner, Nora Han, Shira Perlis and Margaret Jacques "Modeling NP Biodegradation", Annual STEM Symposium, Rowan University, April 2002.

Pierkiel, A. and K. Jahan (2002) "A Novel Membrane Process for Autotrophic Denitrification" Annual Student Poster Presentation Sponsored by the New Jersey Water Environment Association, Atlantic City, NJ.

Michael Sterner, Nora Han, Shira Perlis and Margaret Jacques (2002) "Modeling NP Biodegradation", Annual Student Poster Presentation Sponsored by the New Jersey Water Environment Association, Atlantic City, NJ.

Marcus Roorda, Shira Perlis and Margaret Jacques (2001) "Fate and Transport of Nonionic Surfactants and Their Biodegradation Intermediates in Wastewater Treatment Plants", Annual STEM Symposium, Rowan University.

Steger, C. (2001) "Autotrophic Denitrification using Hollow Fiber Membranes", Annual STEM Symposium, Rowan University.

C. Berg, M. Hayden and E. Rothblatt, (1999) "Sorption of Surfactants in Soils", Annual STEM Symposium, Rowan University.

Gratton D., Halupke, M. and E. Rothblatt, (1999) "Effect of Surfactants on Foaming in Wastewater Treatment Plants", Annual STEM Symposium, Rowan University.

DiTonno, J. and Roorda, W (1999), "Hollow Fiber Membrane Applications in Water and Wastewater Treatment", Annual STEM Symposium, Rowan University.

**STUDENT RESEARCH AWARDS (based on research conducted under my supervision)**

Ryan Smith (2007) New Jersey AWWA Drinking Water Scholarship

Matthew DeNafo (2007) Louis Fontanelli NJWEA Outstanding Research Award for a Graduate Student, New Jersey Water Environment Association.

Ryan Smith (2007) Daniel Bigler Award for Outstanding Academic and Research Record, New Jersey Water Environment Association

Walter Walker (2006) Louis Fontanelli NJWEA Outstanding Research Award for a Graduate Student, New Jersey Water Environment Association.

Danielle Scrivani (2006) Daniel Bigler Award for Outstanding Academic and Research Record, New Jersey Water Environment Association

Erin Frey (2005) New Jersey AWWA Drinking Water Scholarship

Erin Frey (2005) Daniel Bigler Award for Outstanding Academic and Research Record, New Jersey Water Environment Association

Crystal Mattson (2004) Daniel Bigler Award for Outstanding Academic and Research Record, New Jersey Water Environment Association.

Johanna Kline (2003) Daniel Bigler Award for Outstanding Academic and Research Record, New Jersey Water Environment Association

Johanna Kline (2003) Delaware Valley Engineers Council Undergraduate Scholarship for Academic and Research Excellence

Agnieszka Pierkiel (2002) Louis Fontanelli NJWEA Outstanding Research Award for a Graduate Student, New Jersey Water Environment Association.

Jesse Condon (2002) Daniel Bigler Award for Outstanding Academic and Research Record, New Jersey Water Environment Association

Shira Perlis (2001) New Jersey AWWA Drinking Water Scholarship

Shira Perlis (2001) Daniel Bigler Award for Outstanding Academic and Research Record, New Jersey Water Environment Association

Gratton, D., (1999), Daniel Bigler Award for Outstanding Academic and Research Record, New Jersey Water Environment Association

### **INVITED PRESENTATIONS**

30. Jahan, K. "Hurricane Sidr in Bangladesh: Impact of Global Warming", Focus the Nation Summit, Rowan University, January 2008.
29. Jahan, K. "Climbing the Corporate/Academic Ladder" Panel Discussion, 2007 AABEA (American Association of Bangladesh Architects and Engineers) New Jersey Chapter, New Brunswick, NJ. September 2007.
28. Jahan, K. (2005) Arsenic Crisis in Bangladesh and Current Remedial Technology, Environmental Engineering Seminar, Department of Civil and Environmental Engineering, University of Massachusetts, Amherst, Oct. 28, 2005.
27. L. Katz, B. Allenby, A. Bielefeldt, C. Davidson, J. Mihelcic, K. Jahan (2005) "Environmental Sustainability: Educating Students, Colleagues and Ourselves", Panel Discussion, 2005 AEESP Research and Education Conference, Potsdam, NY.
26. Jahan, K. (2005) "The Role of Religion and Women in Academia", Women's History Month Panel Discussion, Rowan University, March 2005.
25. Jahan, K. (2005) "Arsenic Crisis in Bangladesh", ASCE Student Chapter, Rowan University, February 2005.
24. Jahan, K. (2005) "Effective Teaching" 3-day Teaching Workshop", Brac University, January 2005.
23. Jahan, K. (2005) "Arsenic Removal using Microorganisms", International University of Bangladesh, Dhaka, January 6, 2005.
22. Jahan, K., E. Frey, M. DeNafo, L. Castano and K. Bacher (2004) "Arsenic Removal from Water", International Center, Rowan University, November, 2004.
21. Jahan, K. (2004) "Nonyl Phenols in Sewage Sludge" NJWEA Conference, May 2004.
20. Orlins, J., Miller, D., Hasse, J., Everett, J., Jahan, K. (2003). "Watershed Assessment through Undergraduate Research" Invited presentation, Volunteer Monitoring Summit, November 7-8, New Jersey Department of Environmental Protection, Division of Watershed Management.

19. Jahan, K. (2003) "Arsenic Crisis in Bangladesh: Looking for Solutions", Dhaka Rotary Club Annual Meeting, Hotel Pan Pacific Sonargaon, Dhaka, Bangladesh.
18. Everett, J., Orlins, J., Jahan, K., Hasse, J., Miller, D. (2004). "S.J. Watersheds – A Distributed Sharing Community" Invited presentation, Volunteer Monitoring Summit, October 1-2, New Jersey Department of Environmental Protection, Division of Watershed Management.
17. Orlins, J., Miller, D., Hasse, J., Everett, J., Jahan, K. (2003). "Watershed Assessment Through Undergraduate Research" Volunteer Monitoring Summit, November 7-8, New Jersey Department of Environmental Protection, Division of Watershed Management.
16. Jahan, K. and Robi Polikar "Electronic Nose Technology for Odor Detection of Biosolids Emissions", Biosolids Odor Research Group (BORG) Conference, September 22, 2002.
15. Jahan, K., Panel Discussion "Gender relations and Student/Faculty Research", Women's History Month, Rowan University, March 2002.
14. Jahan, K. "AWE: The outreach Program at Rowan University", NJTC Technology Workforce Meeting, Center for Women and Work at Rutgers University, New Brunswick, May 2002.
13. Jahan, K., R. Zaman and Corrinne Blake "The Muslim World, the United States and September: Historical, Political and Personal Perspectives", International Studies Panel Discussion, November 2001.
12. History of Women in Engineering, Women's History Month, Rowan University, March 2002.
11. Fate and Transport of Surfactants, Sponsored by the Faculty Center for Excellence in Teaching and Learning, Rowan University, March 2002.
10. Arsenic Poisoning in Bangladesh, Seminar Asian Studies, Rowan University, April 2001.
9. Land and the Environment, Seminar for Studies in Bangladesh, Rowan University, February 2000.
8. A Journey through Bangladesh, Seminar for Studies in Bangladesh, Rowan University, February 2000.
7. Reverse Engineering of Water Filters, 3rd Annual Rowan Professional Conference, Sponsored by the Faculty Center for Excellence in Teaching and Learning, Rowan University, May 1999.
6. Fate and Transport of Surfactants, 2nd Annual Rowan Professional Conference, Sponsored by the Faculty Center for Excellence in Teaching and Learning, Rowan University, May 1998.

5. Perspectives of Women in Engineering, Panel Discussion for Women's History Month, Rowan University, March 1999.
4. Advent of women engineers in academia, AFT Retiree's Luncheon, Rowan University, April 1998.
3. Teaching Water Quality to Freshmen Engineering Students, 1st Annual Rowan Professional Conference, Sponsored by the Faculty Center for Excellence in Teaching and Learning, Rowan University, May 1997.
2. Biodegradation of Petroleum Hydrocarbons, ASCE Seminar, Rowan University, March 1997.
1. Biodegradation of Nonionic Surfactants, ASCE Seminar, University of Nevada, Reno, October 1995.

### **WORKSHOPS**

Director, Southern New Jersey GAMTTEP (Garrett A. Morgan Technology Education Program) 2007-2008.

Director, "Engineering Clinics for Teachers", 2006-2008.

Director, Research Experiences for Undergraduates in Pollution Prevention and Sustainability, 2001-2006.

Director "AWE: Attracting Women into Engineering", July 1999 – 2004

Co-Director "AWE: Attracting Women into Engineering" 2005-till present

### **RESEARCH AND INSTRUMENTATION GRANTS**

**Funded (as PI in Bold) \$2,984,756 (including match and cost share):**

- 38. NJDOT "Heavy Metal Contamination of Highway Marking Beads", \$240,188**
- 37. NSF CCLI "Hands on an Aquarium" \$150,000, January 2008-December 2010.**
- 36. UDOT SJ GAMTTEP, \$100,000 August 2007- December 2008**
- 35. Thomas Edison Venture – Engineering Clinics for Teachers (\$326,235), Jan. 2006-Dec. 2008.**
34. Rowan University SBR: Marketing the Engineering Clinics, \$4,500
33. USEPA Water Reuse for Gloucester County: Sustainable Solutions for Smart Growth, \$223,500, Sept., 2004.
- 32. NSF REU in Pollution Prevention and Sustainability (\$240,513) March 2004**
- 31. AAAS/WISC Travel Grant to Bangladesh: Microbial Transformation of Arsenic (\$5,000), Dec. 2003**
- 30. Wastewater Reuse Options in Burlington County (Burlington County \$30,000)**
29. NJWRRRI Graduate Research Grant: VOC Identification in Water, October 2003, (\$25,000)

28. North American Technology Center, Use of Enoses for Odor Detection in Biosolids, \$30,000
- 27. NSF CCLI : Bug Power: Fueling our Future with Microorganisms \$149,853**
- 26. NJWRRI Student Internship Grant \$2,500**
- 25: NSF CCLI Digital Imaging across the Curriculum \$221,466**
- 24: USEPA Watershed Project \$250,000**
- 23. NJ Seagrant Program, (2,500)**
- 22. Biothane, Innovative Membrane Process for a WWTP (\$5,000)**
- 21. NSF REU in Pollution Prevention, March 2001 (250,000)**
- 20. NJWRRI Undergraduate Research Award Jan 2001, (\$2,500)**
- 19. EiF: Attracting Women into Engineering, April 2000, (\$26,704)**
- 18. WERF: Novel membrane Process for Autotrophic Denitrification (\$75,000), April 2000**
- 17. New Jersey Water Resources Research Institute: Graduate Research Award, Dec1999, (\$23,000)**
- 16. NHRSC: Fate and Transport of Surfactants, September 1999 (\$55,160)**
15. NSF ILI: Garden City (\$123,177)
14. NSF ILI: Field experiments for multidisciplinary students (\$39,854)
  
13. WERF: NDE evaluation of concrete sewers (\$75,000)
- 12. New Jersey Water Resources Research Institute: Undergraduate Research Award, April 1999, (\$800)**
11. Community outreach partnership planning, USHUD, June 1999, (\$400,000)
10. Planning grant for urban revitalization, NJ Governors Office, June 1998, (\$25,000)
- 9. GCUA Stress Testing , Gloucester County Utilities Authority 1999 (\$5,000)**
- 8. RVSA Foaming Problems, Rahway Valley Sewerage Authority (\$5,000)**
- 7. AWE: Attracting Women into Engineering, 1998, EiF Foundation (\$53,012)**
- 6. New Jersey Water Resources Research Institute: Undergraduate Research Award, April 1998, (\$800)**
- 5. Lindback Foundation Award, 1997, (\$10,712)**
- 4. Rowan University, SBR (Separately budgeted Research) Grant, 1997, (\$1,800)**
- 3. Rowan University Sponsored Research and Creativity Activity Fund, 1997, (\$1,400)**
2. NSF ILI: Competitive Assessment Laboratory, May 1998, (\$111,200)

1. NSF ILI: Multidisciplinary Membrane Process Laboratory Experiments, May 1998, (\$163,070)

## **REPORTS**

17. Final NSF Report for “Research Experiences for Undergraduates in Pollution Prevention”, Dec. 2004, 2005, 2006, 2007
16. Report for the NJ SEAGRANT Institute “Autotrophic Denitrification Modeling”, May 2003
15. Report for EiF Foundation “ AWE: Attracting Women into Engineering”, Jan 2002.
14. Report for New Jersey Water Resources Research Institute “Modeling of Autotrophic Dentrification”, March, 2002.
13. Report for Biothane Inc. “ An Innovative Membrane Process for a WWTP”, March 2002.
12. Report for WERF “ A Novel Membrane Process for Autotrophic Dentrification”, March 2002.
11. Report for EiF Foundation “AWE: Attracting Women into Engineering”, Jan 2002.
10. Report for New Jersey Water Resources Research Institute “Occurrence of NPEs in New Jersey Wastewater Treatment Plants and River Sediments”, March 2001.
9. Report for Northeast Hazardous Substance Research Center “Fate and Transport of Nonionic Surfactants”, March, 2001
8. Report for EiF Foundation “ AWE: Attracting Women into Engineering”, Jan 2001.
7. Report for the New Jersey Water Resources Research Institute titled “Transport of Nonionic Surfactants”, Nov. 2000
6. Report for Gloucester County Utilities Authority “A Stress Testing Plan for GCUA”, March, 2000.
5. Report for EiF Foundation “ AWE: Attracting Women into Engineering”, Nov. 1999, Nov. 2000.
4. Report for RVSA “Effect of Surfactants on Foaming in wastewater treatment plants”, Nov. 1999.

3. Report for the New Jersey Water Resources Research Institute titled "Biodegradation of Nonionic Surfactants", Mar. 1999.
2. Report for the Lindback Foundation titled "Biodegradation of Nonionic Surfactants", Mar. 1998.
1. Report for the Air Force Office of Scientific Research, Bolling AFB, DC 20332-6448 titled "Surfactant-Enhanced InSitu Biodegradation of Strongly Sorbing Organic Substances in Soil Environments" Dec. 1994.

### **BOOK REVIEWS FOR THE WATER ENVIRONMENT FEDERATION**

1. Fundamental of Environmental Engineering, Dr. Danny D. Reible, 526 pages, ISBN 1-56670-047-7
2. Environmental Engineer' Handbook, 2<sup>nd</sup> Edition, 1997.  
Editor(s): David H.F. Liu and Béla G. Lipták  
Publisher: Lewis Publishers  
Pages: 1431
3. "Chemistry of Wastewater" in UNESCO "Encyclopedia of Life Support Systems", EOLSS Publishers Co. Ltd.,U.K.

### **GRADUATE STUDENTS**

#### **Ph.D. Students, on committee**

Fractionation and Segregation of Suspended Particles using Acoustic and Flow Fields  
Nazhat Aboobaker, New Jersey Institute of Technology, Newark, February 2001.

#### **Master's Students, on committee**

Chestnut Branch Watershed Assessment and Modeling  
Stephen Diglio, Rowan University, June 2004.

Ultrasonic Imaging of defects in concrete pipelines  
Michael Ciocco, Rowan University, April 2002.

Autotrophic denitrification using hydrogen oxidizing bacteria in continuous flow biofilm reactors, Scott Benedict, University of Nevada, Reno, June 1995.

#### **Advisor**

#### **Thesis**

Crystal Mattson, August 2005  
Feasibility Study of Beneficial Reuse of Wastewater in Burlington County

Agnieszka Pierkiel, April 2002.  
Novel Membrane Process for Autotrophic Denitrification, Rowan University,

### **Non-Thesis**

Lauren Di Giovanni (Anticipated 2008) Water Quality Impairments in Two Southern Jersey Lakes

Steven Devillasanta (Anticipated 2008) Water Quality Impairment at Edwards Run

Matthew DeNafo, Rowan University (2007) Arsenic Removal via Phytoremediation

Samantha Jones, Rowan University (2007) NDMA Removal using Photodegradation

Diana Garcia Rowan University (2006)  
Fecal Coliform Impairment in Edwards Run, New Jersey

Walter Walker Rowan University (2006)  
Feasibility Study of Beneficial Reuse of Wastewater in Gloucester County

Claire Steager, Rowan University, April 2002.  
Batch Studies on Autotrophic Denitrification,

### **NON ROWAN UNDERGRADUATE STUDENTS**

Kaitlin Krause, University of Wisconsin, Madison, 2001

Nora Han, Rutgers University, NJ. 2001

Rajetha Devadoss, Wilkes University, PA. 2002

Kimberly Freeman, Morgan State University, MD. 2003

Cordell Yazzie, Northern Arizona University. AZ, 2005

### **PROFESSIONAL AFFILIATIONS**

- Water Environment Federation (WEF)
- American Society of Engineering Education (ASEE)
- New Jersey Water Environment Association (NJWEA).

- American Society of Civil Engineers
- WEPAN, Women in Engineering Programs and Advocate Network

### **PROFESSIONAL SERVICE**

- NJWEA (New Jersey Water Environment Association) Rowan University Student Chapter Advisor 2007-till present
  - Member, Atlantic County Technical Institute Advisory Board Sept. 2007-present
  - Member, Rowan University Women's Professional Network Advisory Board, 2006-present
  - Member, New Jersey Water Resources Research Institute Advisory Board Sept. 2005-present
  - Member, NJDEP TMDL Technical Advisory Committee, September 2002-present
  - Groundwater Committee for the Water Environment Foundation
  - Student Committee for the Water Environment Foundation
  - Member, NSPE Diversity Taskforce Committee 2002-2004
- 
- Associate, Washington Township Environmental Commission 2002-till present
  - Newsletter Editor, Environmental Engineering Division, ASEE, 1999-to present
  - Chair, Technology Transfer Seminar, SJWEA South Jersey Water Env. Assoc. Fall 2002
  - Treasurer, Environmental Engineering Division, ASEE, 1998-99
  - Secretary, Environmental Engineering Division, ASEE, 1999-00
  - Program Chair, Environmental Engineering Division, ASEE, 2000-01
  - Division Chair, Environmental Engineering Division, ASEE, 2001-02
  - Host, Gloucester County Teachers' In-Service Day, Rowan University, 2000
  - ASEE Midatlantic Lawrence Section Judge for Student Competition, 2002
  - Session Chair every Year for the Environmental Engineering Division.

### **REVIEWER FOR JOURNALS AND FUNDING ORGANIZATIONS**

- Water Environment Research
- Water Research

- Chemosphere
- Journal of Environmental Engineering (ASCE)
- National Science Foundation
- Manuals of Practice for the Water Environment Foundation
- Journal of Engineering Education
- American Society for Engineering Education
- International Journal on Engineering Education
- WEPAN, SWE, WEF Conference Proceedings

### **ROWAN UNIVERSITY COMMITTEES**

- Member, CPCE Oversight Committee. 2007- present
- Member, Advisory Board Environmental Science Program, Biological Sciences, 2005-present
- Member, Academic Facilities and the Academic Affairs Council
- Member, College of Engineering Assessment Committee for Career Development Candidates, 2005 - present
- Member, Lindback Foundation Research Award Committee, 2005-till present
- Member, Rowan University TNR Committee, 2003-till present
- Member, Search Committee for the Director of the Faculty Center for Excellence in Teaching and Learning, 2004
- Member, Provost's Parent Fund (SAIL) Committee, 2003-till present
- Member, Asian Faculty Association at Rowan University, 2001-till present
- Member, International Task Force Committee, 2002
- Member, Advisory Board, International Students Office, February 2002-May 2003
- Member, University Promotion Committee, September 2001-2003; 2006-2008
- Member, Friends of Hollybush Committee, 2001-till present
- Member, Search Committee for the Position of VP for Administration and Finance, September 2000
- Vice President, Asian Faculty Association at Rowan University, 2000-2001
- Member, University Learning and Outcomes Assessment Committee 2000-2001
- Member, College of Engineering Dean Search Committee 1999-2000
- College of Engineering Curriculum Committee 1999-till present
- University Senate Executive Committee: 1997-98; 1998-99

- University Senate: 1997-1998; 1998-1999
- Committee Chairperson for Aesthetics and Environmental Concerns Fall 1998-Spring 1999
- Member of the Committee for Environmental Studies 1996-1998
- Hollybush Restoration Committee 1999-present
- Facilities Committee 1998-1999
- Rowan Hall Artwork Selection Committee 1998-1999
- Member, Sexual Harassment Resources Team 1997-till present

### **ROWAN UNIVERSITY, ENGINEERING COMMITTEES AND ASSIGNMENTS**

- Member, College of Engineering Graduate Studies Committee 2001 to present
- Member, College of Engineering ABET Assessment Committee 2001to 2003
- Member - College of Engineering Faculty Search Committee, 1997, 1998, 1999, 2000, 2005, 2006
- Member – College of Engineering Clinic Development Committee: 1996 to 2001
- Discipline Manager, Junior and Senior Clinics 1998-2001, 2005-2006
- Member - Department Faculty Search Committee: 1996 to present
- Member - Department Curriculum Committee: 1996 to present
- Member - Department Equipment Committee: 1996 to present
- Member – CEE Graduate Studies Committee
- Member – CEE ABET Committee
- Member – CEE Tenure and Recontracting Committee
- CEE Student Advising, 1998 to present

### **VOLUNTARY SERVICES**

- Volunteer, Ronald MacDonald House, Kennedy Hospital, Washington Township 2004-2006
- Volunteer, Water Quality Monitoring Project, Washington Township Environmental Commission, 2001-present
- Vice President, Bangladesh Association of Delaware Valley, 2008-2009.