Rogers has taught Bible study for the Shavertown United Methodist Church for the past 10 years. She and her husband, Bill, split their time between homes in Dallas, Pa. and Ft. Myers, Florida. Their daughter, Christine, resides in the Philadelphia area.

Wilkes professors co-author book

C.V 8-21-05

Wilkes University associate professor of environmental engineering, Dr. Brian Whitman, and adjunct professor of environmental engineering, Dr. Thomas Walski, recently co-authored the book, "Wastewater Collection System Modeling and Design," published by Haestad Press, Waterbury, Conn.

The book describes the hydraulic models that are used and how these models are applied in the design of wastewater collection systems.

The book outlines the model development process including wastewater load estimation, data collection, model calibration techniques, and system design and rehabilitation. Even though this book focuses on modeling systems, it also covers the use of modeling software such as SewerCAD, how Geographic Information Systems (GIS) is used in the modeling process, and regulatory issues. This book could be used as a textbook for college students learning to design wastewater collection systems or as a reference for practicing engineers.

Whitman earned a master's degree in civil engineering and his doctorate in environmental engineering from Michigan Technological University.

Walski earned his bachelor's degree in mathematics from King's College and his master's and doctorate in environmental and water resources engineering from Vanderbilt University.

ANNOUNCEMENTS

TL Dude 7-22-05

Wilkes University Professors Dr. Brian Whitman and Dr. Thomas Walski recently co-authored the book "Wastewater Collection System Modeling and Design," which describes hydraulic models and how they are applied in the design of wastewater collection systems. Published by Haestad Press, Waterbury, Connecticut. 408-4770.

Wilkes University News

University Relations Office
Mark Davis, Director
Wilkes-Barre, Pennsylvania 18766
Office (717) 831-4770 Fax (717) 824-2934
e-mail davis@wilkes1.wilkes.edu

Wilkes University Welcomes New Faculty Members

WILKES-BARRE-Wilkes University welcomes fourteen professionals who recently joined the Wilkes faculty family. The new faculty members include: Dr. Marleen Troy, Ms. Judy Reishtein, Dr. Nicole Sparano, Dr. Rebecca Sutherland Borah, Dr. Hieu Tran, Dr. Ghassan Ibrahim, Dr. Wendi McKinzie, Dr. Brian Whitman, Dr. S. Thomas Abraham, Mr. James Culhane, Mr. Cliff Jernigan, Dr. William VanDerSluys, Ms. Amy Liebermann, and Dr. Abraham Wender.

Dr. Marleen Troy joins Wilkes University as an Assistant Professor of Environmental Engineering. She received her Bachelors, Masters and Ph.D. from Drexel University and earned a second Masters degree from the University of Rhode Island.

Ms. Judy Reishtein, received both her Bachelors and Masters degrees from Wilkes University. She joins the Wilkes faculty as a Visiting Assistant Professor of Nursing.

Dr. Nicole Sparano holds the title of Assistant Professor of Pharmacy Practice (Primary Care). She received her Pharmacy degree from Medical

-MORE-

University of South Carolina and her Bachelor of Science degree from Rutgers University.

Dr. Rebecca Sutherland Borah received her Ph.D. from Southern Illinois University. In addition to her Ph.D. she obtained both her Masters and Bachelors degrees from Northeast Missouri State University. She joins Wilkes University as Director of the Writing Center and as an Assistant Professor of English.

Dr. Hieu Tran has been named Assistant Professor of Pharmacy Practice (Cardiology). He received his Pharmacy and Bachelors degrees from the Philadelphia College of Pharmacy Science.

Dr. Ghassan Ibrahim will be a Visiting Associate Professor of Electrical Engineering. He received his Ph.D. from North Carolina State University and his Bachelor of Science degree from the University of London, England, United Kingdom.

Dr. Wendi McKinzie received both her Pharmacy and Bachelors degrees from the St. Louis College of Pharmacy. She joins Wilkes University as an Assistant Professor of Pharmacy Practice (Critical Care).

Mr. Brian Whitman received his Masters and Bachelors degrees from Michigan Technological University. He holds the title of Assistant Professor of Environmental Engineering. Whitman is currently working on his final dissertation for his Ph.D. from Michigan Tech.

Dr. S. Thomas Abraham received his Pharmacy degree from East Tennessee State University, his Bachelor of Science degree from Mars Hill College and his Associate of Science degree form Chowan College. He joins Wilkes University as an Assistant Professor of Pharmaceutical Science.

Mr. James Culhane received his Bachelor of Arts degree from

Washington and Jefferson College. He is currently working on his final dissertation for his Pharmacy degree from West Virginia University. Culhane joins the University Faculty as an Assistant Professor of Pharmaceutical Science (Pharmacology).

Mr. Cliff Jernigan received his Bachelor of Arts degree from The City College of New York, his Master of Arts degree from Duquesne University and is currently working on his final dissertation to obtain his Ph.D. from Penn State University.

Dr. William VanDerSluys joins the Wilkes Faculty as an Associate Professor of Chemistry. He received his Ph.D. from Indiana University of Inorganic Chemistry and his Bachelor of Science degree from State University of New York.

Ms. Amy Liebermann received her Master of Arts degree from Yale University and her Bachelor of Arts degree from Stanford University. She joins the Wilkes Faculty as a Visiting Assistant Professor of Music.

Dr. Abraham Wender joins Wilkes University as a Visiting Assistant Professor of Math/Computer Science. He received his Ph.D. from the State University of New York and both his Master of Science and Bachelor of Science degrees from Tel Aviv University.

Wilkes University welcomes all newly hired faculty to the Wilkes Family.

Photo:

Row 1 L-R: Dr. J. Michael Lennon, vice president for Academic Affairs; Dr. Marleen Troy, assistant professor of Environmental Engineering; Ms. Judy

THIRD ADD--WIKES UNIVERSITY WELCOMES NEW FACULTY MEMBERS

Reishtein, visiting assistant professor of Nursing; Dr. Nicole Sparano, assistant professor of Pharmacy Practice (Primary Care); Dr. Christopher N. Breiseth, president of Wilkes University.

Row 2 L-R: Dr. Rebecca Borah, assistant professor of English & director of Writing Center; Dr. Hieu Tran, assistant professor of Pharmacy Practice (Cardiology); Dr. Ghassan Ibrahim, visiting associate professor of Electrical Engineering; Dr. Wendi McKinzie, assistant professor of Pharmacy Practice (Critical Care).

Row 3 L-R: Mr. Brian Whitman, assistant professor of Environmental Engineering; Dr. S. Thomas Abraham, assistant professor of Pharmaceutical Science; Mr. James Culhane, assistant professor of Pharmaceutical Science (Pharmacology); and Mr. Cliff Jernigan, associate professor of Communications.

Missing from Photo: Dr. William VanDerSluys, associate professor of Chemistry; Ms. Amy Liebermann, visiting assistant professor of Music; Abraham Wender, visiting assistant professor of Math/Computer Science; and Dr. Ahmed Tawfik, assistant professor of Math/Computer Science.

-30- 091597

Associate Professor Environmental Science and Engineering

Brian E. Whitman

July 1997

Brian Edward Whitman, Ph.D. Candidate
Department of Civil and Environmental Engineering
Michigan Technological University, Houghton, MI 49931-1295
Office Phone: 906-487-3583
Fax Number: 906-487-3292
E-mail: bewhitma@mtu.edu

Last Revised: July 1, 1997

Education

Ph.D., Environmental Engineering, Michigan Technological University
Expected Date of Graduation in August 1997
Dissertation Title:
The Association of Hydrophobic Organic Chemicals with Bacteria During Bioremediation Processes
M.S., Civil Engineering, Michigan Technological University, December 1994
Thesis Title:
Biosorption and Transport of Naphthalene by a *Pseudomonas fluorescens* Isolate
B.S., Environmental Engineering, Michigan Technological University, May 1992

Teaching Interests

- Introduction to Environmental Engineering
- Hydromechanics
- Environmental Microbiology
- Biological Wastewater Treatment
- Water Chemistry
- Fate of Xenobiotic Compounds in Soils and Groundwater
- Environmental Statistics
- U.S. Environmental Policy

Teaching Experience

Substitute Instructor in Environmental Biochemistry Course
Department of Biological Sciences, Spring 1997
Duties: Prepared and gave lectures dealing with biological treatment technologies for contaminated soils and groundwater

Guest Lecturer in US Environmental Policy Course
Department of Social Sciences, Winter 1996
Duties: Prepared and gave a lecture about the background and scientific studies for the Torch Lake Superfund site in Lake Linden, Michigan

Hydromechanics Laboratory Teaching Assistant
Department of Civil and Environmental Engineering, Winter 1995
Duties: Prepared laboratory exercises and graded laboratory reports

Water Chemistry Laboratory Teaching Assistant
Department of Civil and Environmental Engineering, Spring 1994 and Fall 1994
Duties: Prepared laboratory exercises, lectures, handouts for students and graded laboratory reports

Research Interests

- Fate of Hydrophobic Organic Chemicals in Soils and Groundwater
- Biodegradation of Hydrophobic Organic Chemicals
- Biological Treatment of Wastewater
- Biotechnologies
- Phytoremediation

Research Experience

Doctoral Research Assistant
Department of Civil and Environmental Engineering, Michigan Technological University
Advisors: Dr. James R. Mihelcic, Civil and Environmental Engineering
Dr. Donald R. Lueking, Biological Sciences
Date: December 1994 through Present

- Determine the mode of entry of naphthalene into a *Pseudomonas fluorescens* isolate (continuation of my M.S. research)
- Develop a partition/diffusion model which describes the transport of a hydrophobic organic chemical across the cellular envelope of a gram-negative organism to determine the minimum external aqueous concentration required for metabolism
- Determine the biological mechanism which increases the growth rate and octadecane utilization rate by a *Pseudomonas aeruginosa* isolate when a rhamnolipid biosurfactant is present

Responsibilities:

- Developed and conducted experiments to accomplish research objectives
- Trained and assisted undergraduate and graduate students with research projects related to my research objectives (trained five undergraduate students and one Master's Degree Student)

Research Scientist Department of Civil and Environmental Engineering, Michigan Technological University
Principle Investigator: Dr. Martin T. Auer
Date: May 1997 through June 1997
Objectives:

- Determine the amount of inorganic carbon assimilated by phytoplankton in the New York city drinking water reservoirs using radio-isotopes
- Train the primary graduate student to conduct experiments and analyze results required for this project

Responsibilities:

- Organize a research plan to order required materials, train graduate students to conduct the required experiments and analyze the results
- Conduct the required experiments until the primary graduate student can do the experiments without my assistance

Master Research Assistant
Department of Civil and Environmental Engineering, Michigan Technological University
Advisors: Dr. James R. Mihelcic, Civil and Environmental Engineering
Dr. Donald R. Lueking, Biological Sciences
Date: September 1992 through December 1994
Objectives:

- Determine the significance of biosorption of a hydrophobic organic chemical in soil systems
- Determine the mode of entry of naphthalene into a *Pseudomonas fluorescens* isolate

Responsibilities:

- Developed and conducted experiments to accomplish research objectives

Undergraduate Research Scientist
Department of Biological Sciences, Michigan Technological University
Principal Investigator: Dr. John H. Adler
Date: December 1989 through August 1992
Objective:

- Develop an alternative method to deter feeding insects in the effort to reduce the mass of pesticide used on crop plants

Responsibilities:

- Worked with graduate students to study the biosynthetic pathway for the production and regulation of ecdysteroids which act as defense chemicals against feeding insects

Undergraduate Research Assistant
Department of Civil and Environmental Engineering, Michigan Technological University
Principal Investigators: Dr. C. Robert Baillod Civil and Environmental Engineering
Dr. Karl B. Rundman Metallurgy and Materials Engineering
Date: June 1992 though August 1992
Objective:

- Determine if foundry waste sands could be used as a primary resource in other industries

Responsibilities:

- Helped sample the foundry waste sands from several aluminum and iron foundries and did the initial characterization studies of the foundry waste sand samples

Publications

Naphthalene Biosorption in Soil/Water Systems of Low or High Sorptive Capacity
Brian E. Whitman, James R. Mihelcic, and Donald R. Lueking
Applied Microbiology and Biotechnology. 1995. 43:539-544.

Summary: Although the naphthalene partition coefficient for microorganisms is much higher than the naphthalene partition coefficient for high organic carbon soils, the amount of naphthalene biosorbed is insignificant because the mass of microorganisms typically present in soils is small.

Naphthalene Assimilation by a *Pseudomonas fluorescens* Isolate
Brian E. Whitman, Donald R. Lueking and James R. Mihelcic
Applied and Environmental Microbiology (Submitted, March 10, 1997)
Summary: Presents and discusses evidence which supports the existence of a protein-mediated, energy-linked transport system for naphthalene by a *Pseudomonas fluorescens* isolate. To my knowledge, no transport system of this nature for a non-charged hydrophobic chemical has been published.

Presentations

Innovative Technologies for Site Remediation and Hazardous Waste Management, American Society for Civil Engineers
University of Pittsburgh, July 1995
Poster Title: **Naphthalene Biosorption and Uptake by a *Pseudomonas fluorescens* Isolate: Implications for Subsurface Systems**

95th General Meeting, American Society for Microbiology
Washington D.C., May 1995
Poster Title: **Naphthalene Assimilation by a *Pseudomonas fluorescens* Isolate**

16th Midwest Environmental Chemistry Workshop
Notre Dame University, October 1993
Presentation Title: **Naphthalene Assimilation by a *Pseudomonas fluorescens* Isolate**

Sigma Xi/Graduate Student Council Multi-Disciplinary Student Research Colloquium
Michigan Technological University, April 1993
Presentation Title: **The Uptake of Naphthalene into Live and Dead Bacterial Cells**

Professional Experience

Technical Writer
Dr. John C. Crittenden and Dr. David W. Hand
Department of Civil and Environmental Engineering
Michigan Technological University, Houghton MI
Date: June 1997 through Present
Duties: Assist two faculty members in writing a textbook about reactor design and physical/chemical treatment technologies for air and water.

Consulting Engineer
Date: May 1996
Duties: Assisted in microbial enumeration studies for BTEX and diesel degrading organisms and total viable counts from soil samples in order to evaluate the feasibility of land-based biological treatment of contaminated subsurface media.

Consulting Engineer ABTco Inc., Alpena MI
Date: May 1995 through July 1995
Duties: Conducted field and laboratory studies to identify a solution to eliminate high zinc levels in a wastewater lagoon effluent.

General Maintenance Assistant
Lenawee County Drain Commission, Adrian MI.
Date: Summers of 1987, 1988 and 1989
Duties: Assisted in the maintenance of a wastewater treatment plant, pump stations, lagoon systems and drain fields; work crew supervisor for the River Raisin restoration project; assistant surveyor.

Professional Development

Engineer-in-Training Exam passed April 1997

Upper Midwest Faculty Forum
Increasing Student Retention: A Focus on Teaching and Learning
Michigan Technological University, Houghton MI
April 1997

Professional Societies

- American Association for the Advancement of Science
- American Society for Civil Engineers
- American Society for Microbiology
- American Society for Engineering Education
- International Association on Water Quality
- Tau Beta Pi National Engineering Honor Society

University Service and Governance

- North Central Association Accreditation Self Study Goal 6 Subcommittee: Provide Comprehensive Information Technology Services, September 1996 through Present
- Graduate Student Council, September 1993 through Present
  Served on Following Committees as the Graduate Student Representative
  - University Library Committee
  - University Senate
  - University Senate Instructional Policy Committee
  - Affirmative Action Officer Search Committee
  - Computer Advisory Committee Subcommittee on Computing Fees
  - Academic Integrity Committee
  - Graduate Student Tuition Policy Task Force
  - Student Health Center Negotiating Team
  - Library Programing Committee
- Assisted in developing and writing the Academic Integrity Policy and Procedures for Michigan Technological University, June 1994 through August 1994
- Student Advisor for the Alpha Society, April 1993 through May 1994
- Co-founder of the Alpha Society: An Honor Society for Freshman and Sophomore Engineering Students, April 1993
- Student Coordinator for the 2nd Annual Engineering Olympic Festival for High School Students, April 1993
- Student Assistant for the 1st Annual Engineering Olympic Festival for High School Students, April 1992
- Resident Assistant in Wadsworth Residence Hall, March 1990 through November 1992

Honors

- MTU Graduate Student Council's Outstanding Service Award
- Who's Who Among Students in American Colleges and Universities

References

Dr. James R. Mihelcic, Associate Professor
Department of Civil and Environmental Engineering
Michigan Technological University, Houghton MI 49931-1295
Office Phone: 906-487-2324 E-mail: jm41@mtu.edu

Dr. Donald R. Lueking, Associate Professor
Department of Biological Sciences
Michigan Technological University, Houghton MI 49931-1295
Office Phone: 906-487-2027 E-mail: drluekin@mtu.edu

Dr. C. Robert Baillod, Professor and Chair
Department of Civil and Environmental Engineering
Michigan Technological University, Houghton MI 49931-1295
Office Phone: 906-487-2520 E-mail: baillod@mtu.edu

Dr. John C. Crittenden, Presidential Professor
Department of Civil and Environmental Engineering
Michigan Technological University, Houghton MI 49931-1295
Office Phone: 906-487-2798 E-mail: jcritt@mtu.edu

Dr. David R. Shonnard, Assistant Professor
Department of Chemical Engineering
Michigan Technological University, Houghton MI 49931-1295
Office Phone: 906-487-3468 E-mail: drshonna@mtu.edu

Brian E. Whitman, Ph.D.
September 2006

Associate Professor of Environmental Engineering
Environmental Engineering and Earth Sciences Department
Wilkes University
PO Box 111
Wilkes-Barre, PA. 18766
Office Phone: 570-408-4882 E-mail: brian.whitman@wilkes.edu

Education

Ph.D., Environmental Engineering, Michigan Technological University, May 1998
Dissertation Title: The Association and Uptake of Hydrophobic Organic Chemicals Gram-Negative Organisms during Bioremediation Processes

M.S., Civil Engineering, Michigan Technological University, December 1994
Thesis Title: Biosorption and Transport of Naphthalene by a *Pseudomonas fluorescens* Isolate

B.S., Environmental Engineering, Michigan Technological University, May 1992

Teaching Experience

Associate Professor of Environmental Engineering, May 2003 through present
Assistant Professor of Environmental Engineering, August 1997 through May 2003
Department of Environmental Engineering and Earth Sciences, Wilkes University
Courses taught: Hydrology (Hydrogeology), Water and Wastewater Treatment, Water Resources Engineering, Environmental Engineering Hydraulics, Senior Project Coordinator, Environmental Microbiology, Environmental Data Analysis, Biogeochemistry Lab, Principals of Environmental Science Lab, Computer Utilization in Engineering, and Freshman Experience (Technological Survival)

Current Research Projects

Treating Drinking Water Contaminated with Arsenic and Phosphorous Using Ferric Hydroxide River Deposits from Abandoned Mine Drainage (AMD)
Department of Environmental Engineering and Earth Sciences, Wilkes University
Co-Investigator with Mr. Brian Oram, Wilkes University
Advisor to six undergraduate students since starting this project
Date: September 2002 through present

The Phytoremediation of Methyl *tert*-Butyl Ether (MTBE) in Swales and Ditches
Department of Environmental Engineering and Earth Sciences, Wilkes University
Co-Investigator with Dr. Debbie Carey, Marywood University, Scranton, PA. and Anthony Lagalante, Pennsylvania State University Scranton Campus, Scranton, PA.
Advisor to two undergraduate student since starting project
Date: February 2002 through present

Use of Cenospheres as a Supplement to Enhance the Lubrication Properties of Motor Oil
Department of Environmental Engineering and Earth Sciences, Wilkes University
Co-Investigator with Dr. Owen Faut, Wilkes University
Advisor to one undergraduate student since starting this project
Date: August 2000 through present

Use of Waste Ash Material from a Coal-Burning Power Plant to Supplement Agricultural Soil to Enhance Crop Plant Yield
Department of Environmental Engineering and Earth Sciences, Wilkes University
Co-Investigator with Dr. Dan McNally, Bryant College, Smithfield RI.
Advisor to five undergraduate students since starting project
Date: August 1999 through present

Constructed Wetlands for the Treatment of Agricultural Runoff and Abandoned Mine Drainage (AMD)
Department of Environmental Engineering and Earth Sciences, Wilkes University
Co-Investigator with Dr. Kenneth Klemow, Wilkes University
Advisor to eighteen undergraduate students since starting project
Date: September 1998 through present

Currently Funded Grants

Wilkes University Faculty Development Committee Type I Grant: Conversion of Fly Ash Components to Liquid Lubricant Additives
Date: May 2004 through May 2007
Principle Investigators: Brian E. Whitman and Owen Faut

Publications and Presentations

Computer Applications in Hydraulic Engineering, 7th edition
Thomas Walski, Thomas E Barnard, S. Rocky Durrans, Michael E. Meadows, and Brian E. Whitman. Bentley Institute Press. 2006.

Fracture Array Analysis of the Elk Mountain Sandstone of the Catskill Formation, South Abington and Scott Township, PA.
Joel T Antolik, Sid Halsor, and Brian E. Whitman. Geologic Society of America (GSA) Annual Meeting and Exposition. Philadelphia, PA. October 2006.

Determining the Accuracy of Automated Calibration of Pipe Network Models
Thomas M. Walski, Nicholas DeFrank, Thomas Voglino, Rick Wood, and Brian E. Whitman 2006 8th Annual Symposium on Water Distribution System Analysis, International Water Association, Cincinnati OH. August 2006.

Modeling Leakage Reduction Through Pressure Control
Thomas Walski, William Bezts, Emanuel T. Posluszny, Mark Weir, and Brian E. Whitman. Journal of the American Water Works Association (AWWA). April 2006. 98:147-155

Role of Plant Architecture and Cuticular Features in Removing Iron From Wetlands Constructed to Treat Abandoned Mine Drainage
Rachel Giroux, Beth Karwaski, Kenneth Klemow, Donald Mencer, Therese Wignot, and Brian E. Whitman. The 82nd Annual Pennsylvania Academy of Science Meeting. Grantsville, PA, March/April 2006.

Wastewater Collection System Modeling and Design, 1st Edition
Thomas Walski, Thomas E. Barnard, LaVere B. Merritt, Eric Harold, Noah Walker and Brian E. Whitman. Haestad Methods Press. 2004.

Understanding the Hydraulics of Water Distribution System Leaks
Thomas Walski, William Bezts, Emanuel T. Posluszny, Mark Weir and Brian E. Whitman
2004 World Water and Environmental Resources Congress, American Society for Civil Engineers
Salt Lake City, UT., June/July 2004. Full paper published in the conference proceedings.

A Freshman Course in Computer Applications
Thyagarajan Srinivasan, Jamal Ghorieshi, and Brian E. Whitman
2003 American Society of Engineering Education (ASEE) Annual Conference, Nashville TN.
June 2003. Full paper published in the conference proceedings.

Using Current Engineering Software in a Senior-Level Hydraulics Course at a Small Undergraduate University
Brian E. Whitman
2003 World Water and Environmental Resources Congress, American Society for Civil Engineers
Philadelphia, PA., June 2003. Full paper published in the conference proceedings.
Invited Speaker for a Short Course Titled: Incorporating Hydrology & Hydraulics Software in Engineering Education

Phytoremediation of Methyl *Tertiary*-Butyl Ether (MTBE) by River Birch Saplings
Rebecca Ryals, Deborah Hokien Carey, Anthony Lagalante, and Brian E. Whitman
36th Middle Atlantic Regional Meeting (MARM), American Chemical Society
Princeton University, June 2003

Model to Predict the Passive-Diffusion Mediated Uptake of Hydrophobic Organic Chemicals through the Cellular Envelope of a Gram-Negative Organism
Brian E. Whitman, Donald R. Lueking, and James R. Mihelcic
101st General Meeting, American Society for Microbiology
Orlando, FL., May 2001

Naphthalene Uptake by a *Pseudomonas fluorescens* Isolate
Brian E. Whitman, Donald R. Lueking, and James R. Mihelcic
Canadian Journal of Microbiology. 1998. 44:1086-1093.

New Information about Pseudomonads: Uptake of Naphthalene and Degradation of 3- and 4-Ring PAHs under Denitrification Conditions
James R. Mihelcic, Dan L. McNally, and Brian Whitman
20th Annual Midwest Environmental Chemistry Workshop
Indiana University, November 1997

Naphthalene Biosorption in Soil/Water Systems of Low or High Sorptive Capacity
Brian E. Whitman, James R. Mihelcic, and Donald R. Lueking
Applied Microbiology and Biotechnology. 1995. 43:539-544.

Naphthalene Biosorption and Uptake by a *Pseudomonas fluorescens* Isolate: Implications for Subsurface Systems
Brian E. Whitman, James R. Mihelcic, and Donald R. Lueking
Innovative Technologies for Site Remediation and Hazardous Waste Management, American Society for Civil Engineers, University of Pittsburgh, July 1995

Naphthalene Assimilation by a *Pseudomonas fluorescens* Isolate
Brian E. Whitman, Donald R. Lueking, and James R. Mihelcic

95th General Meeting, American Society for Microbiology
Washington D.C., May 1995

Naphthalene Assimilation by a *Pseudomonas fluorescens* Isolate
Brian E. Whitman, Donald R. Lueking, and James R. Mihelcic
16th Midwest Environmental Chemistry Workshop
Notre Dame University, October 1993

The Uptake of Naphthalene into Live and Dead Bacterial Cells
Brian E. Whitman
Sigma Xi/Graduate Student Council Multi-Disciplinary Student Research Colloquium
Michigan Technological University, April 1993

Professional Experience

Consulting Engineer
The Lake Carey Cottagers' Association, Tunkhannock, PA
Funded Growing Greener Grant titled: Lake Carey Watershed Assessment & Restoration Project
Date: August 2002 through August 2003
Duties: Assist in an evaluation of the Lake Carey and the surrounding watershed to determine the impact of phosphorus loading to the lake and assist in developing a restoration plan

Consulting Engineer
Engelhard Corporation, Iselin NJ
Co-Investigator with Mr. Brian Oram, Wilkes Universiry
Date: August 2001 through July 2002
Duties:

- Evaluate the removal of arsenic from water using new zeolite materials
- Evaluate the hydraulic characteristics of the zeolite material in columns
- Compare the removal efficiency of arsenic using the zeolite materials to current accepted technologies

Report Title: The Assessment of Zeolites to Remove Arsenic from Drinking Water: Sorption Capacity and Removal Kinetics

Consulting Engineer
Pennsylvania Economy League, Wilkes Barre, PA.
Date: May 1999 through November 2000
Duties: Assist the Pennsylvania Economy League to determine the engineering and economic impacts after the joining of two public water municipalities in Lancaster County, PA.
Report Title: An Analysis of the Fiscal and Operational Impacts of East Cocalico Township Authority and the Ephrata Area Joint Authority Joining to Provide Water Service to Their Customers

BENTLEY

HAESTAD METHODS WATER SOLUTIONS

Haestad.com

Hello. Login at Haestad.com.

Quick Menu

- About the Book
- About the Authors
- Table of Contents
- Sample Pages
- Write a Review
- Back to Books

What They Say

"I continue to be impressed with Haestad Methods products. After performing such chores as Hardy Cross calculations by hand, my students absolutely love and appreciate the tools provided to them in the Academic CD."

University of Georgia

More...

Computer Applications in Hydraulic Engineering, 7th Edition

Includes WaterGEMS, SewerGEMS, StormCAD, SewerCAD, PondPack, FlowMaster, CulvertMaster

View other books

About the Book

Written to meet the needs of both students and professionals, "Computer Applications in Hydraulic Engineering" is the ideal supplementary text in water resources courses as well as a comprehensive learning tool for practicing engineers.

New for the 7th Edition:

- Now includes WaterGEMS and SewerGEMS
- New chapter and tutorial on Dynamic Modeling
- Updates on Pressure Piping and Water Quality Analysis

Linking hydraulic theory with real-world applications, CAiHE focuses on problem solving skills and computer modeling that will help the user become a better engineer. Accompanying the text are academic licenses for working copies of Bentley's Haestad Methods Water Solutions flagship products. The text also explains the theory and equations that the software is based on. Users will find exercises and examples geared toward the technology, theory, and analysis methods at the forefront of hydraulic engineering.

Topics covered include:

- Basic Hydraulic Principles
- Hydrologic Principles
- Storm Sewer Design and Gravity Piping Systems
- Drainage Inlet Design
- Culvert Hydraulics
- Detention Pond Design
- Pressure Piping Systems and Water Quality Analysis
- Sanitary Sewer Design and Analysis
- Application of Modeling Software
- Cost Management
- Diversions
- Scenario Management

Each book within the Water Modeling Collection from the Bentley Institute Press includes academic-licensed versions of the professional software covered.

Included software:

- WaterGEMS
- SewerGEMS
- StormCAD
- SewerCAD
- FlowMaster
- CulvertMaster
- PondPack

Pricing

Standard Price: $295

Buy Now

Students: $46

Buy Now

Professors: $15

Buy Now