

ALAN J. TUCCI

16254 Hautala Road
Montville, Ohio 44064
(216) 968-9823
(216) 443-8230 (work)

EDUCATION: Masters of Public Administration (Program Development Specialty), Cleveland State University, 1984.
B.S. Biological Science, Ohio State University, 1966.

QUALIFICATIONS:

- Accredited as "Certified Safety and Security Director" by World Safety Organization in November, 1988.
- Chairman of Ohio Water Environment Association (OWEA) Safety Committee.
- Chairman of Governor's Community Traffic Safety Network Committee for Cuyahoga County (GCTSN).
- Member of Board of Control of Greater Cleveland Safety Council (GCSC).
- Safety Committee Member of (international) Water Environment Federation (WEF).
- Member of WEF Task Force on Confined Space Entry Policy.
- Chairman of Member Information Subcommittee of WEF.

ACCOMPLISHMENTS: Improved safety program resulted in the Sanitary Engineering Division being awarded the Ohio Water Pollution Control Association Safety Award for 1985, 1986, 1987, 1988, 1989, 1992 and 1995. In 1990 and 1993 was awarded the prestigious WEF (national) Burke Award for safety. Received Greater Cleveland Public Works Performance Award in 1991 for excellence as Supervisor. Received Outstanding Achievement Award from the Greater Cleveland Safety Council in 1995. Was featured speaker for various seminars of many professional/safety organizations including OWEA, WEF, GCSC and GCTSN. Regular contributor to professional periodicals of OWEA and WEF.

EMPLOYMENT HISTORY: **Safety Coordinator for the Board of County Commissioners**
June 1981 - Present **Sanitary Engineering Division.** Responsible for all aspects of safety, training, equipment maintenance, accident investigation and reporting for Sanitary Engineers, and to a lesser extent, for County Airport, Dog Warden and Administrative Services. Promoted from Program Coordinator for County's Youth Development Center in March, 1982.

Sept. 1978 - June 1981 Taught SCUBA diving and aquatics, and coached swim teams.

Dec. 1966 - June 1978 **Officer of U.S. Marine Corps in peace and in the Vietnamese War.** Included Infantry Platoon Commander (26 months) and Company Commander (34 months), plus various intelligence assignments requiring top secret clearance.

MISCELLANEOUS:

- Certified as an underwater SCUBA instructor by three national organizations.
- Over 1,000 volunteer hours with American Red Cross as Water Safety, CPR, First Aid and Sailing Instructor.
- Commander of American Legion Post #759.
- Certified as Emergency Medical Technician by State of Ohio.
- Certified as "Competent Toastmaster" by Toastmaster's International.

Gordon Baugh

1751 Kenny Rd. Apt. 32, Columbus, OH 43212 gordonbaugh@yahoo.com cell: 614-937-0087

Education

Ohio State University	Columbus, Ohio	2001-2002
Master of Education		GPA: 3.91 / 4.0

- Certification in physics (7-12).
- Thesis: *Effects of Integrating Physics History on Student Physics Competency and Attitudes Towards Physics*

Ohio State University	Columbus, Ohio	1992-1997
B.S. in Engineering Physics		GPA: 3.61 / 4.0

- Engineering Physics: physics major plus >40 credit hours electrical engineering course work.
- Successful honors thesis project, including oral defense, magnetization of superconductors. Created joint project in both the Materials Science Engineering and Physics Departments.

Awards Received

- Graduated with distinction. 1997
- Jones Engineering Scholarship \$1,800. 1996-1997
- Ohio State Physics Department scholar of the year, sophomore and junior years. 1994, 1995
- Phi Beta Kappa (OSU chapter) Freshmen book award: two students chosen annually. 1993
- Ohio State University honors student. 1992-1997

Work Experience

360water, Inc. Columbus, Ohio 2003-Present
Director, Operations & Maintenance Training Technology

- Technical writing of online operations and maintenance training for water and wastewater facilities.
- Manage online course production; work with plant owners and consulting engineers on course content.
- Technical graphics expertise and HTML expertise for online training courses.

Ohio State University Physics Dept. Columbus, Ohio 2002-2003
Instructor, undergraduate physics (calculus based)

- Graduate Teaching position, recitation instruction of calculus-based electricity/magnetism for engineers.
- Managed the introduction of a hand-held student response system; the first time used in OSU physics lectures.

Eisenhower National Clearinghouse (ENC)	Columbus, Ohio	2001-2003
Science Abstract Writer		

- Writing abstracts / summaries for science, engineering, and mathematics materials as a Graduate Research Associate.
- Supervisor: Mrs. Jennifer Gonya, senior science abstractor, Columbus, OH, phone: (614) 688-3472 (O)

Consultech (a Chinese market research consulting company)	Shanghai, China	2000-2001
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Training management, Web design, promotion and marketing

- Began and managed corporate training efforts as a service to client companies. Sourced trainers, organized courses, set 2001 schedule, promotion.
- Complete overhaul of Consultech's website in English. Updated and created promotional material, added web response forms, registration forms, news articles. www.china-invest.com/Consultech/main.htm
- Project leader for creation of online training modules on marketing and market research.
- General Manager: Mr. Neil Wang, Beijing, China, phone: +86-0431-2988-690 (H)

Harbin Engineering University

Harbin, China

1997-1999

English Teacher, English Language Institute / China

- Taught English to Chinese university students. Advanced writing, composition, and communication skills.
- English course for Engineering Masters Degree candidates using simulations of real engineering situations.
- Dean of English Department: Dr. Ouyang Quan, Harbin, China, phone: +81-0451-251-9226 (O)

Ohio State University Physics Dept.

Columbus, Ohio

1994-1997

Research Assistant, Dean J.C. Garland Condensed Matter/Superconductivity Lab

- Functioned as member of the Garland research team by collecting and analyzing data on existing Magnetization vs. Temperature apparatus for four senior researchers and honors thesis research project.
- Presented thesis work at conferences in both Notre Dame University and Indiana University.
- Performed daily laboratory tasks: sample preparation, system maintenance, ordering supplies, cleaning.
- Supervisor / thesis advisor: Dr. Chris Keener, engineer, IBM, San Jose, CA, phone: (217) 344-8427 (H)

Languages and computer applications

- MS-Office applications (including PowerPoint), Macromedia Dreamweaver and Authorware, Maple, Matlab, Fortran, limited C++ and AutoCAD.
- Spoken Mandarin Chinese

Volunteer experience

- Flood relief, southern Ohio. Cleaned up debris and repainted flood damaged property.
- Worship leader for college fellowship group of King Avenue United Methodist Church, Columbus, Ohio.
- Member of the Ohio State University Varsity track and field team, Spring and Fall 1993. High Jump. Participant of Big Ten Championships in Ann Arbor, Michigan, Spring 1993.
- Downtown Columbus Soup Kitchen volunteer
- Habitat for Humanity volunteer. Fabricated and raised walls. Hung drywall.

Sheree Gossett-Johnson
7777 Patterson Rd.
Hilliard, Ohio 43026
(614) 529-1129

Career Objective

Promote progressive environmental protection including efficient utilization of natural resources with little or no pollution in a safe environment.

Educational Background

Bachelor of Science Degree in Biology with concentrations in Chemistry and Environmental Sciences, School of Science and Engineering, Wright State University, Dayton, Ohio.

Post Education

Wastewater Operator Class II course, Operator Training Committee of Ohio.

Wastewater Operator Class III course, Operator Training Committee of Ohio.

Supervisory/Managerial course, Clark State.

Professional training courses including seminars and workshops.

Certificates/Licenses

Bachelor of Science Degree in Biology, School of Science and Engineering, Wright State University, Dayton, Ohio.

Ohio Class II Laboratory Analyst, 2-90-02.

Ohio Class III Wastewater Operator Certificate, 3-89-76

Water Education for Teachers (WET) Certified Facilitator.

Work Background

Environmental Specialist II, Ohio EPA, Division of Surface Water, 1994 to present.

Environmental Specialist II, Ohio EPA, Division of Drinking and Ground Water, 2/92 - 2/94.

Laboratory Supervisor, City of Fairborn Wastewater Treatment Plant, 1990 - 1992.

Pretreatment Coordinator, City of Fairborn, Wastewater Treatment Plant, 1987-1990

Research Technician, Wright State University, Wastewater Treatment Plant, 1984 - 1986

Related Activities

Current Chairperson of Southeast Section for Ohio Water Environmental Association (OWEA)

Registration and Contact Hour Chairperson for 2002 OWEA Annual Conference

Wastewater Treatment Operations Trainer for Ohio EPA

Professional recommendations may be obtained verbally or in written form upon request.

James L. Borton

Objective	To obtain a management position in the area of water resource management or environmental protection, specializing in wastewater treatment facility operations.		
Experience	1999–Present	City of Wooster - WPCP	Wooster, OH
	Assistant Utilities Manager		
	<ul style="list-style-type: none">Oversee complete operations of 7.5 MGD design flow secondary WWTP, including 12 staff.Manage budget of approximately \$4.5 million including \$1 million budgeted for capital improvements in 2002. This includes assembling 5-year capital plan for facility improvement.Reduced staff and overtime costs in excess of \$100K/yr through shift rescheduling and attrition.Located additional source of revenue from accepting trucked in food processing waste, that has resulted to date in over \$400K net income in 10 months.		
	1992 - 1999	State of Ohio EPA	Columbus, OH
	Environmental Specialist		
	<ul style="list-style-type: none">Served as a team leader for a nationally recognized wastewater treatment plant troubleshooting and training team.Developed the Municipal Compliance Maintenance Program in conjunction with the regulated community.Coordinated two \$50K USEPA GrantsManaged the Industrial Tax Certification Program.Assisted in the administration of the Operator Certification Program.		
	1989–1992	Gelles Laboratories	Columbus, OH
	Laboratory Technician – College Intern		
	<ul style="list-style-type: none">Performed PCM and PLM asbestos analysis.Assisted with QA/QC program.Assisted with metallurgical analysis when needed.		
Education	2000-present	University of Maryland	Adelphi, MD
	<ul style="list-style-type: none">Pursuing (Part-time, on-line) M.S. in Environmental Science – Environmental Business Option.Completed or in progress in 3 of 11 classes, including Environmental Policy, Project Management and Personnel Management courses.		
	1987 - 1992	Ohio State University	Wooster & Columbus, OH
	<ul style="list-style-type: none">A.A.S. in Laboratory Research at OSU/ATI in Wooster.B.S. in Natural Resources Management – Watershed Policy and Planning.		

**Professional
Achievements and
Activities**

- Certified Class IV Wastewater Operator in Ohio.
- Certified as a Class I Wastewater Laboratory Analyst.
- Currently Serving as the Ohio Water Environment Association (OWEA) Publications Committee Chairman.
- Co-Recipient of OWEA's 1999 L.T. Hagerty Award.
- Co-Recipient of USEPA's 1998 104(g)(1) "Spark Plug" Award.
- Operations Challenge Participant 1994-1998 & 2001. State Champion Team 1994, 1996-1998.
- Received the 1995 OWEA, Southeast Section, Outstanding Member Award.

**Publications,
Presentations and
Training Conducted**

- On-site assistance training conducted in Nuevo Laredo, Mexico to the Mexican Government and selected wastewater operators.
- "Controlling the Activated Sludge Process", 2-Day classroom course.
- "Thickening Activated Sludge Returns", published in the January 1999 Operations Forum.
- "Debugging Your Process...Is There Life in There?", presented at the 1998 OWEA State Conference
- "Spinning Into Control" presented at the 1998 USEPA Regional and National 104(g) Operator Trainer Conferences.
- "How to Improve a Treatment Plant...TURN IT OFF!" presented at the 1996 OWEA State Conference. Also published in the June 1997 Operations Forum.

References available upon request.

James A. Parrott

Assistant Director, Metropolitan Sewer District of Greater Cincinnati, Ohio

PROFESSIONAL EXPERIENCE

- ☐ Former Director, Butler County Department of Environmental Services, Hamilton, Ohio. Managed Butler County Water, Sewer and Solid Waste Districts with unprecedented vision, leadership, skill and innovative public financing methods.
- ☐ Manages the development and implementation of a Ten-Year Capital Improvement Program, valued at \$170 Million.
- ☐ Manages enterprise funds with annual revenues of up to \$32 Million.
- ☐ Creates and encourages a professional, team-oriented atmosphere among staff, providing customers with affordable environmental services.
- ☐ Coordinates with all section managers to ensure compliance and cost effective solutions.
- ☐ Works tirelessly to provide excellent, clear communication.
- ☐ Resolves customer complaints, development needs and community growth issues.
- ☐ Implements and encourages innovative problem solving and decision making techniques.
- ☐ Excels at dealing with personnel issues and union contract administration.

EDUCATION

Georgetown College, Georgetown, KY.

Bachelor of Arts in Communications, 1984

University of Toledo, Toledo, Ohio.

Industrial Wastewater Pretreatment - Continuing Education, 1992

PROFESSIONAL AFFILIATIONS

- ☐ 1999 Speaker- National American Water Works Conference- Chicago, Illinois
- ☐ 1997 Water Environment Federation Public Service Award - Southwestern Ohio
- ☐ American Water Works Association
- ☐ Water Environment Federation
- ☐ Solid Waste Policy Advisory Committee
- ☐ Chairman, Hamilton Human Relations Committee
- ☐ Business Advisory Council - Hamilton City Schools
- ☐ Hamilton Rotary Club
- ☐ Chamber of Commerce - Leadership Hamilton!
- ☐ Alcohol and Drug Addiction Services Board
- ☐ Government Chairperson, United Way

Mr. Wadsworth has developed Operation and Maintenance Manual courseware on Safety, Hazardous Materials Handling and Emergency Response Operations for 360water, Inc.

Larry's experience as the safety manager for a large utility brings the applicability to the 360water courseware. His experience involves the following areas:

- Safety and Health Evaluations of various operations.
- Field verification and safety support.
- Establishment of Methods to Safely Perform and Control Work.
- Development and presentation of various training programs.
- Completion of permits and reports for various safety projects.
- Management of Emergency Response Operations.
- Development of written policies/procedures to support safety programs.
- Perform safety, Industrial Hygiene and Environmental Audits.
- Accomplished coordination with Outside Agencies.

Title: Safety Manager, 360water, Inc.

Education:

OSHA Safety Programs:

- OSHA 30 Hour Compliance Program,
- OSHA 40 Hour Course,
- Respiratory Protection Program,
- Noise Surveys and Hearing Conservation,
- Ventilation Systems
- Industrial Hygiene Programs
- Environmental Protection Programs
- Emergency Response Operations
- Hazardous Materials Handling

DETAILED RELEVANT EXPERIENCE

■ 360water, Inc. Courseware Development:

- Writer and course development on Safety, Hazardous Materials Handling and Emergency Response Operations.

EMPLOYMENT HISTORY

360water	2004-2006
City of Columbus/Safety Program Technician:	1994-2004
Manager Environmental Firm:	1992-1994
Supervisor Operations, Environmental Firm	1988-1992
VA Hospital/Safety Technician	1987-1988
U.S. Air Force/Industrial Hygiene Manager-Superintendent	1964-1987

Ms. Tegethoff has over nineteen years of experience in utilities layout, operation, maintenance, construction, and training. In 1999, Laura created 360water, Inc. As of 2007, the company has 50 municipal installations of its online technical training programs. 360water has created over 500 technical training courses. The company's courseware and course content is officially approved for operator certification by 44 states.

Title: President, 360water, Inc.
Education and Training Leader

Education:

- BS Business Administration
The Ohio State University 1987

Societies:

- Water Environment Federation
- American Water Works Association
- 5S

DETAILED RELEVANT EXPERIENCE

- **The Ohio EPA Contract for Class A Licensure:** 360water was awarded The Ohio Environmental Protection Contract resulted in the Certification of 1106 new Class A Licenses in the State of Ohio. She was responsible for structuring the program hiring the trainers and training the trainers to administer the face to face training during 71 training sessions in a 12 month period of time. 360water under her administration stayed within budget and never missed a milestone. The anticipated performance of the Ohio EPA was a 50% pass rate. 360water's final pass rate was 93%.
- **The State of West Virginia:** For 2006, and 2007, 360water has been contracted out to provide Continuing Education to the Operators of WW. Over 600 hours of courses have been taken by the operators in that program.
- **360water, Inc. Sales and Marketing:** Work with representatives around the country to get market share in the United States, support their marketing efforts and provide materials for their client base.
- **Online Operations and Maintenance (O&M) and Training System / City of Columbus, Ohio:** Manage the preparation and certification of Ohio-EPA approved training courses linked directly from the City's Online O&M system. Work includes development and review of training content and test questions for operator certification purposes. Assisted in leading training courses to instruct wastewater treatment facility staff in utilization of the software. *To date the staff has completed over 2000 hours of training through 360water. In turn there have been a reduction in Safety Violations and Premature Equipment Failures.*
- **Integrated Contingency Planning (ICP) Web Interface and Training / City of Columbus, Ohio:** Managed the development of online training courseware and documents for the City's integrated contingency plans for the wastewater treatment facilities. Final product was designed to verify training and knowledge on all health- and safety-related contingency information through an online format.

PUBLICATIONS / PRESENTATIONS

"360water an Online solution for the Water Industry", L. Tegethoff, presented at Texas 2002, WEAT, in San Antonio TX.

"Online O&M Training Leads Change in Columbus, Ohio", Donahue, C.M., Cruden, D.O., Sinning, T., Tegethoff, L., Adams, A.D., presented at the 79th Annual Conference of the Ohio Water Environment Association, Columbus OH, June 22, 2005.

"Point, Click, Credit – Web-based operations and maintenance training leads change in Columbus, Ohio", Donahue, C.M., Osthues, G.J., Sinning, T., Cruden, D.O., Tegethoff, L., Water Environment and Technology, August, 2004.

"Technology-based Training: Point, Click, Credit – Web-based O&M Training Leads Change in Columbus, OH", Donahue, C.M., Cruden, D.O., Osthues, G.J., Tegethoff, L., Sinning, T., 2004 Joint Management Conference, Phoenix AZ, March 14, 2004.

"Online Training and Capital Improvement Projects, a match made in heaven." ISAWWA-IWEA 2006 Joint Conference Springfield Ill.

"Online Operation and Maintenance Training" OWEA Conference June 2002. Columbus Ohio

2007 National AWWA Conference in Toronto, Panelist for How to Improve the Acquisition, Specification and Award of Projects in a Municipal Bid Situation. Presented paper: "It meets the spec....really!"

HONORS / AWARDS

- Operator Education Director for Southeast Ohio Water Environment Association
- Past OWEA State Public Education Chair and Executive Committee Member
- Public Image Committee and Membership Committee of the OWEA and the First Director for the Southeast Ohio Water Environment Association
- Past President of the SEOWEA
- Recipient of the Golden Shovel, 5S society.
- Winner of the 2005 State of Ohio, OWEA, WD Sheets award for participation in educating professionals in the water industry
- Annual lecturer at the SEOWEA section meetings (topics include Tertiary Treatment, Ultraviolet Disinfection, Dewatering Methods, and Composting)
- Annual lecturer at the University of Dayton, Prof. Steve Safferman's Advanced Engineering class on new technologies and innovations in the water and wastewater industry.
- Meet Annually with the National Women of Water Committee and was asked to become president of the Organization in 2006. Participate in the OWEA Women in Water mentoring young women and encouraging women to consider the Water Industry. During presentations with Columbus State University guided the advanced engineering students in career paths available to women.
- Annually Judge the State Science Fairs and Judge on behalf of the Water Environment Association.

Michael B. Pilutti, P.E.

2188 Nottingham Road Columbus, OH 43221

(614) 442-1418

mike_pilutti@urscorp.com

Registration 1998 / Registered Professional Engineer / OH / E-62750

Years of Experience 9 years total, 9 years with URS

Expertise Mr. Pilutti has worked on a variety of project types, including water treatment plants and distribution systems, sanitary sewer systems, and roadways, with a major focus on water treatment and membrane technology. He has served as project manager, project engineer and resident project representative. Mr. Pilutti's areas of responsibility have encompassed budgeting, project and personnel management, project design, field personnel supervision and coordination, field administration and inspection, quality control, contractor coordination, sales and marketing.

Education BE / 1993 / Civil Engineering / Youngstown State University

Societies American Membrane Technology Association
American Water Works Association

Publications ***UF-GAC for Regulatory Compliance***
Conference proceedings for American Membrane Technology Association North American Biennial Conference and Exposition, 2002

Internet-based Operator Training for 360Water.com including the following courses:

Membrane Operations for Small Utilities
Terms and Equations of Membrane Treatment
Design Parameters Affecting Membrane Performance
Membrane Operations
Membrane Fouling and Cleaning
Water Chemistry of Membrane Treatment

Dissolved Solids, Suspended Solids, Membrane Technology Treats 21st Century Contaminants
AWWA Opflow, May 2002

The Basics of Membrane Technology
AWWA Ohio Section Newsletter, summer 2001

Lancaster Breaks Ground for New Nanofiltration Membrane Treatment Facility
AWWA Ohio Section Newsletter, winter 2000

Nanofiltration Membrane Treatment for Lancaster, Ohio
AWWA Ohio Section Newsletter, spring 2000

Membrane Treatment Comes To Ohio

American Desalting Association Conference Proceedings, American Desalting Association North American Biennial Conference and Exposition, South Lake Tahoe, NV, August 2000

Presentations

UF-GAC for Regulatory Compliance

American Membrane Technology Association North American Biennial Conference and Exposition, August 2002

DBP Reduction for the Burr Oak Regional Water District

AWWA SE/SW Joint Meeting, Deer Creek State Park, May 2002

Upgrading Existing Water Plants with Membranes

Operator Training Committee of Ohio (OTCO) Winter Workshop, February 2002

The Multibarrier Approach for Optimal Protection

Presented at the Ohio AWWA "Security Issues for Water Systems" Seminar, Columbus, Ohio, February 2002

Membrane Treatment Comes To Ohio

Presented at the American Desalting Association North American Biennial Conference and Exposition, South Lake Tahoe, NV, August 2000

Distribution System Modeling – Lancaster, A Case History

Presented to the Ohio Operator's Training Committee, Columbus, Ohio, December 1999

Relevant Experience

City of Lancaster South Wellfield and Treatment Facility, Lancaster, Ohio

Senior Project Engineer responsible for the design and operation of two nanofiltration membrane pilot studies and design of a 12 mgd nanofiltration membrane treatment facility. When completed, this membrane softening facility will be the largest in the State of Ohio.

ODNR Burr Oak Water System, Treatment Plant and Distribution System Improvement and Expansion Project, Glouster, Ohio

Senior project engineer responsible for design and operation of a UF-GAC pilot study. Pilot system will be operational for 1 year and will provide the basis of design for the full-scale plant expansion. When completed, the ultrafiltration water plant will be one of the first surface water plants in Ohio to utilize ultrafiltration membrane technology.

Senior project engineer responsible for the distribution system associated with the preliminary investigation, preliminary design and final design of expansion and improvements to the Burr Oak Water System including new storage tanks; upgrades of booster pump stations; and waterline replacement.

Village of Bluffton Membrane Pilot Study

Senior Project Engineer assisted with the design and operation of an ultrafiltration-nanofiltration membrane pilot plant. This challenging ground water contains TDS >1000 ppm, hydrogen sulfide >20 ppm, and turbidity greater than 50 ntu.

Senecaville Fish Hatchery Improvements, Ohio Department of Natural Resources

Project representative for the construction portion of this evaluation of water supply needs and the development of alternative methods of obtaining water from Senecaville Lake. This work involved coordinating with dam renovation work planned by the Corps of Engineers. The project consisted of: the design of a water booster pumping station to increase the water supply volume to the ponds; design of a pond drain pumping station to improve the rate of pond drainage; and revising the process piping to utilize the existing system to the maximum extent possible.

Water Treatment Plant Improvements, Defiance, Ohio

Project engineer for the feasibility study and design phase to upgrade this conventional treatment plant from its existing 6-MGD capacity to a 9-MGD capacity. The study consisted of a comprehensive evaluation of all of the treatment processes in the plant, including upground raw water storage needs and equipment inspection. Recommendations were made to increase the efficiency of some of the processes and to revise a major portion of the plant. The design phase of the water treatment plant project includes new pumping clarification, recarbonation, and filtration facilities as well as a new intake structure and upgrading of the chemical feed systems. A new instrumentation and control system was also included as part of the project.

Fisher Road Booster Station Improvements, Columbus, Ohio

Project engineer for this project for the City of Columbus Division of Water for the replacement of the existing seven pumping units at the Fisher Road Booster Station and the addition of four new pumping units to increase the station's overall capacity, while maintaining service to the system.

Wastewater Treatment Preliminary Engineering Report, Cheshire, Ohio

Project engineer for the preparation of a Preliminary Engineering Report to document the findings of the wastewater system evaluation and recommend the appropriate wastewater facilities for the Village, in accordance with the requirements of Ohio EPA and USDA/Rural Development.

Lagoon System, Winter Park, Colorado

Project engineer for this lagoon system, which will be the first of its type in the country. The upgrade system will meet strict ammonia limits in the dead of winter under 18 feet of snow.

Big Walnut Augmentation / Rickenbacker Interceptor Capital Improvements, Columbus, Ohio

Project engineer for the Big Walnut Augmentation / Rickenbacker Interceptor (BWARI) tunnel project in Columbus, Ohio.

Spring Street Combined Sewer Rehabilitation, Columbus, Ohio

Project engineer for the development of construction drawings and bid documents and provide other related services for the Spring Street Combined Sewer Rehabilitation.

Additional Qualifications

FAA Certified Commercial pilot (airplane single engine) with an Instrument Rating
FAA Certified Flight Instructor

References

J.S. Taylor, Ph.D., P.E.
Professor of Engineering, Director of the Environmental Systems Engineering
Institute
University of Central Florida
PO Box 162450
Orlando, FL 32816-2450
(407) 823-2785

Kerry Hogan, P.E.
Director of Utilities
Fairfield County Utilities
210 East Main Street
Lancaster, OH 43130
(740) 687-7154

Dave Bornino
Superintendent of Water
City of Lancaster Division of Water
225 North Memorial Drive
Lancaster, OH 43130
(740) 687-6631

Julia E. Nemeth, P.E.
Process Design Manager
Harn R/O Systems, Inc.
205 Seaboard Ave.
Venice, FL 34292
(941) 488-9671

Stuart A. McClellan
Sr. Applications Development Engineer
The Dow Chemical Company
4094 Jonquil Circle South
Palm Beach Gardens, FL 33410-5531
(561) 626-6616

RESUME

Michael S. Hogan
Vice President of Sales & Marketing
Duke's Sales and Service, Inc.
1020 Hiawatha Blvd., West
Syracuse, NY 13204

Education: University of Florida, B.A., Business Administration.

Employment: Duke's Sales & Service, Inc.

Experience: 13 years in the water and wastewater industry.

Presentations:

- Trenchless Technology, Inc. – 2000
- Pumper and Cleaner Conference – 2000
- National Rural Water Association - 2000

Memberships:

- American Public Works Association
- WEFTEC
- NASSCO
- Trenchless Technologies
- Georgia Water & Pollution Control Association

RESUME

Patrick T. Karney, P.E., DEE

Metropolitan Sewer District of Greater Cincinnati, Ohio

1600 Gest Street

Cincinnati, OH 45204

Phone: 513-244-1300

Email: patrick.karney@rcc.org

Patrick T. Karney is the Director of the Metropolitan Sewer District of Greater Cincinnati, Ohio. Mr. Karney is a former Director of the Water Environment Federation. Mr. Karney is a licensed professional engineer in the states of Missouri and Florida (U.S.A.), as well as being a licensed wastewater operator in those states. He has been accepted as a Diplomat in the American Academy of Environmental Engineers. Mr. Karney began his career with six years in private industry, working for General Motors Corporation. During his sixteen years in the government sector (with the Metropolitan St. Louis Sewer District and the City of Jacksonville, Florida) Mr. Karney spent a considerable amount of time participating in the activities of the Water Environment Federation (formerly the Water Pollution Control Federation). In recognition of those efforts he received both the Federation's Arthur Sidney Bedell and William D. Hatfield Awards. Mr. Karney served two years as Deputy Executive Director of the Water Environment Federation, prior to accepting a position in the private sector which allowed him to move back to Florida. Following five years as a biosolids contractor and as Regional Manager for Black & Veatch Engineers, Mr. Karney has returned to utility management as Director of the Metropolitan Sewer District of Greater Cincinnati in Cincinnati, Ohio.

Patrick T. Karney has served as Chair, EPA Effluent Guidelines Task Force (NACEPT), and was on the Board of Director of the Inter-American Association of Sanitary and Environmental Engineers-U.S. Section (AIDIS-USA). Mr. Karney also accepted the positions of Executive Director/Resident Agent of the Florida Water Environment Association, and Secretary/Resident Agent of the Florida Water Resources Conference Inc. and the Florida Water Resources Journal Inc. (all three are 501(c)(3) not-for-profit corporations).

Robert Stephen Canter, P.E.
scanter@enveng.com

SUMMARY

Stephen Canter has worked in the environmental field for the past 29 years. During this time he has amassed an extensive amount of experience in the design, operation and oversight of environmental control facilities. His positions have ranged from field technician to his present position as president of the company he founded in 1984. Mr. Canter has the unique capability of applying solutions from both the engineer's and plant operator's perspective. Mr. Canter's ability to address federal and state regulatory agencies' concerns, results in efficient and timely resolution of complex environmental problems.

**RELEVANT
EXPERIENCE**

Environmental Engineering Service 1984 to present
President

Technical expertise includes planning, design and development of water and wastewater control facilities including distribution and collection systems, preparation and implementation of biosolids treatment/management plans, and municipal water/wastewater facility operations

LTV Steel Company 1982 - 1985

Process & Production Engineer

Supervised steel production operations within the scope of meeting Federal/State Water & Air Emission Standards

US EPA Environmental Research Center 1977 - 1982

Engineering Research Assistant.

Evaluated process efficiencies in the removal of organic contaminants from water and wastes

US Army 1972 - 1977

Noncommissioned Officer in Charge Environmental Sanitation

Performed and evaluated environmental investigations as related to matters of public health concerns. Areas of concentration included water and wastewater treatment, solid waste disposal, communicable disease control, food service sanitation and industrial hygiene.

EDUCATION

University of Cincinnati
B.S., Civil Engineering, 1982

REGISTRATION

Professional Engineer - Ohio
Class III Wastewater Operator - Ohio
Class I Water Supply Operator - Ohio

Steven I. Safferman, Ph.D., P.E.

PROFESSIONAL EXPERIENCE

Michigan State University: Assoc. Professor, College of Agriculture and Natural Resources (*August 2005 to present*)

University of Dayton: Department of Civil and Environmental Engineering and Engineering Mechanics, *Assistant Professor and Graduate Faculty* (August 1994 to August 2000), *Associate Professor and Graduate Faculty* (*August 2000 to August 2005*)

- Conduct funded research on bioremediation and physical treatment technologies for liquid and solid wastes.
- Develop and instruct graduate and undergraduate courses in civil and environmental engineering.
- Manage the University's Environmental Engineering Laboratory.

United States Environmental Protection Agency: Office of Research and Development, *Environmental Engineer* (February 1989 to August 1994)

- Coordinated U.S. EPA RREL Hazardous Waste Tractability Study Program.
- Conducted research on bioremediation and physical treatment technologies for waste remediation.
- Managed waste treatment projects conducted by Universities, EPA Contractors, and other government agencies.
- Managed Division's analytical and research laboratories.

EDUCATION

Ph.D.: Environmental Engineering, March 1994, University of Cincinnati, College of Engineering, *Specialty: Aerobic Fluidized Bed Wastewater Treatment*.

MS: Environmental Engineering, December 1988, University of Cincinnati, College of Engineering, *Specialty: Fate of Toxic Compounds in Extended Aeration Wastewater Treatment Plants*.

BSCE: Civil Engineering, March 1987, University of Cincinnati, College of Engineering, *Specialty: Environmental Hydraulics*.

RESEARCH AREAS

Wastewater Treatment: Biological and Physical Units, Novel Reactor Systems, Process Design and Evaluation, On-Site Systems, Agricultural and Industrial Runoff.

Hazardous Waste Treatment: Fixed Film Bioremediation, Soil Washing.

Environmental Education: Continuing Education for Environmental Specialists and Teachers, Pollution Prevention for Grades K-12.

SELCTED MEMBERSHIPS and AWARDS

Memberships

- Professional Engineer (State of Ohio, E-6007)
- American Society of Civil Engineers
- Water Environment Federation
- Association of Environmental Engineering and Science Professors
- American Society for Engineering Education

Awards

- National Civil Engineering Honor Society, Chi Epsilon
- Numerous Annual and Special Act Awards for High Quality Performance.

PUBLICATION LIST

Patent: Safferman, S. I. and Bishop, P. L., Aerobic Fluidized Bed Reactor with Internal Media Cleaning. Patent Number 5487828, issued on January 30, 1996.

Selected Book Chapters

- Safferman, S. I., "Sedimentation and Expansion of Type I Solids," Environmental Engineering Processes Laboratory Manual, to be published by Association of Environmental Engineering and Science Professors, *In Press*.
- Thompson, P. L. and Safferman, S. I., "Water Softening Laboratory," Environmental Engineering Processes Laboratory Manual, to be published by Association of Environmental Engineering and Science Professors, *In Press*.
- Safferman, S. I., "Fundamentals of Teatability Studies," in Bioremediation: Principles and Practice, Technomic Publishing Co., Inc., 1998, pp. 577-600.

Selected Journal Manuscripts

- Safferman, S. I., Azar, R. A., and Sigler, S., "Passive Nutrient Addition for the Biodegradation of Ethylene Glycol in Storm Water," Journal of Environmental Engineering, *Submitted*.
- Safferman, S. I. And Zoghi, M., "Holistic First Year Civil and Environmental Engineering Design Experience," Journal of Engineering Education, *Submitted*.
- Hallinan, K., Daniels, M., and Safferman, S., "Balancing Technical with Social and Ethical Issues: A New First Year Interdisciplinary Engineering Design Course," IEEE Technology and Society Journal, *To be Published in Spring 2001*.
- Safferman, S. I., "A Holistic View of Waste Management Research, Forum in the "Journal of Professional Issues in Engineering Education and Practice," Vol. 126, No. 1, January 2000, pp. 3-7.
- Safferman, S. I., Utgikar, V. P., and Sandhu, S. S., "Environmental Engineering Education," Environmental Engineering Forum in the "Journal of Environmental Engineering," Vol. 122, No. 9, September 1996, pp. 779-784.

- Safferman, S. I., Nath, R., and Saliba, A. J., "Deicing Fluid Treatment in an Intermittently Loaded Subsurface Microbiological Contactor," Journal of Environmental Science and Health, Part A, Vol. A34, No. 8, 1999, pp. 1591-1605.
- Safferman, S. I., Siruvalure, G. S., and Foppe, L. E., "Deicing Fluid Treatment in Batch-Loaded Aerobic Fluidized Bed Reactor," Journal of Environmental Engineering, Vol. 124, No. 1, January 1998, pp. 11-15.
- Safferman, S. I. and Bishop, P. L., "Operating Strategies for Aerobic Fluidized Bed Reactors," Journal of Hazardous Materials, Vol. 54, No. 3, September 1997, pp. 241-253.
- Safferman, S. I. and Bishop, P. L., "Aerobic Fluidized Bed Reactor with Internal Media Cleaning," Journal of Environmental Engineering, Vol. 122, No. 4, April 1996, pp. 284-291.
- Haught, R. C., Neogy, R., VonderHaar, S. S., Krishnan, E. R., Safferman, S. I., and Ryan, J., "Land Treatment Alternatives for Bioremediating Wood Preserving Wastes," Hazardous Waste and Hazardous Materials, Vol. 12, No. 4, December 1995, pp. 329-344.
- Safferman, S. I., Lamar, R. T., VonderHaar, S., Neogy, R., Haught, R. C., and Krishnan, E. R., "Treatability Study Using *Phanerochaete sordida* for the Bioremediation of DDT Contaminated Soil," Toxicological and Environmental Chemistry, Vol. 50, Numbers 1+4, November 1995, pp. 237-251.
- Kupferle, M. J., Chen, T. C., Gallardo, V. J., Lindberg, D. E., Safferman, S. I., Bishop, D. F., and Bishop, P. L., "Anaerobic Treatment of Hazardous Waste Leachates in Publicly-Owned Treatment Works: An Innovative Approach," Water Environment Research, Vol. 67, No. 6, September 1995, pp. 910-920.
- Herrmann, A. M. and Safferman, S. I., "Phospholipid and FDA Activity Measurements Adapted to Biological GAC," Journal of Environmental Science and Health, Part A, Vol. A30, No. 2, March 1995, pp. 263-280.
- Khodadoust, A. P., Wagner, J. A., Suidan, M. T., and Safferman, S. I., "Solvent Washing of PCP Contaminated Soils with Anaerobic Treatment of Wash Fluids," Water Environment Research, Vol. 66, No. 5, July/August 1994, pp. 692-697.

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EDUCATION AND TRAINING

Master of Science Degree in Education In Technology - 1/98 to Present (currently in progress)
(Including University of Phoenix / Online Program) GPA: 4.0
Boise State University

Bachelor of Environmental Science Degree/Physical Resource Management & Planning
University of Wisconsin G.B. / Graduated 5/95 Major GPA: 3.3 Cum. GPA: 3.0

Water/Wastewater Technology Program
Bay de Noc Community College - 1989/91 & 1992/93

Industrial Safety & Hazardous Waste
Ferris State University - 1991/92

Industrial Wastewater Troubleshooting Workshop (5/00), SAP & OpsWin Software Training (Wastewater & Maintenance Software Packages 1999/00), Microsoft Office Training (1999/00), Fire and Hazardous Materials Training (5/00, 8/99, 5/99, 3/98), (5/98), (9/98), (12/98), Power Piping Certification (11/98), PAPR Breathing Apparatus Training (6/98), Lead Paint Removal Training (6/98), Incident Commander & Fire School/Atlanta, Georgia (5/98), Emergency Response Practice (5/98), Kraft Mill Chemical Safety & Operations Class (5/98), Safety Audit Class (5/98), Asbestos Handling Class (5/98), Bird Training for Polysulfide Reactors and Centrifuges (5/98), Basic and Advanced Hydraulics (Bay de Noc Community College) (3/98 to 5/98), Mead Supervisory Communication Class (1/98), National Safety Conference Seminar (5/97), Smith & Loveless Pump and Lift Station Workshop (5/97), Alexander Chemical Chlorine Handling Seminar (4/97), Inventron Flow Meter Course (7/96), Inventron Instrumentation Workshop (4/96), On-Site Berrien County Landfill Training (4/96), Activated Sludge Class (DEQ) (3/96).

LICENSING:

- * State of Michigan / DEQ - Water Industrial Licensing / Class A-1b (Clarification), B-1b (Neutralization), B-2a (Chemical Clarification), C-1b (Aerated Lagoons), C-1c (Stabilization Ponds), C-3a (Activated Sludge)
- * State of Michigan / DEQ - Class D Wastewater License w/the Educational Requirements to obtain a Class A License

CERTIFICATIONS:

- * Industrial Waste Troubleshooting (Activated Sludge)
- * Activated Sludge and Lab I / Department of Environmental Quality
- * Confine Space Entry

EMPLOYMENT HISTORY

1/2000 – present Full Time Instructor; 1/95 – 12/99 part time Instructor

Instructor, Water Resource Management and Environmental Resource Management, Bay College, Escanaba, Michigan

Responsible for teaching all aspects of water and wastewater science, resource management, and environmental resource management to students in the Associates degree program at Bay College.

4/99 – 12/99

Supervisor of Operations/Maintenance of Water & Wastewater Utilities, Mead Paper Division, Escanaba

Responsible for over-seeing the operations and maintenance for the wastewater, water, and boiler feed systems. Accountable for mill water supply, solids handling, boiler feed, and wastewater NPDES permit. Supervise and train water & wastewater operators and skilled craftsmen in the treatment and mechanical maintenance for the Utilities Area. Ensure the quality and quantity of water needed for the entire paper mill processes and discharges from the mill site. Area Planner for shutdowns, daily crew work activities, and operational changes.

Provide direction in the continual improvement of water and effluent plant systems through analysis, problem solving, and predictive maintenance. Safety Trainer, Safety Action Committee Team member and Presenter for monthly mill safety meetings. Responsible for budgeting, scheduling, and union law management. Coordinate and supervise area repair and installation of machines, piping, and equipment with production, engineers, consultants, and outside contractors.

1/98 - 4/99

Kraft Tour Maintenance Supervisor - Mead Paper Division, Escanaba

Responsible for the maintenance and emergencies for the entire mill (2nd & 3rd shifts). Rotating Supervisor between Kraft Mill, Outside Utilities, and Paper Machines (1st shift). Incident Commander for fire and hazard waste emergencies. Coordinate and train a crew consisting of Millwrights, Pipefitters, and Welders for quickly needed maintenance and fabrication work through-out the mill. Accountable for prioritizing and "down time" during emergency outages, Tour area equipment planning, and organization of crew. Daily performance includes: work-order generation, blueprint reading, parts and materials ordering, troubleshooting, safety audits and meetings, prioritize and schedule maintenance, and communicator to crew and area supervisors.

7/97 - 1/98

Assistant Operator - Mead Paper Division, Escanaba

Responsible for wastewater sample collection, solids removal operations, monitoring of pumps and chemical feed processes, and solids de-watering systems.

12/95 - 7/97

Assistant Superintendent - Galien River Sanitary District, New Buffalo, MI

Managed the operation and maintenance of the Wastewater Plant and Collection System. Responsible for overseeing the entire operations for solids handling, storage, and removal. Coordinated with County landfill to bring in leachate and consulted for landfill problems. Monitored flows and sampling for collection system. Trainer and Inspector for the Industrial Pretreatment and Trucked Waste programs. Responsible for laboratory budget, QA/QC, analyst (when technician was off), coordinated toxicity testing, and MPDES State reports. Planner for daily operations, parts, chemicals, and budget for the plant and construction. Consultant for the City infrastructure. Responsible for managing and planning with consultants & engineers on over a million dollar construction project for plant, Confine Space Program Trainer, Mercury Drop-Off Program, Safety Trainer, personnel training, permit writing for waste haulers and industry for discharging, and presenter for monthly Board Meetings.

10/94 - 5/95

Planner (Intern) - Brown County Planning Department, Green Bay, WI

Flood way and Flood plain planning for Brown County. Mapping and planning for County Landfill, Parks, Subdivisions, etc.. Zoning Regulations, City Infrastructure planning, and worked with Army Corp. of Engineers on GIS Systems and City Maps.

COMPUTER / TECHNICAL

Microsoft Office (Word, Excel, PowerPoint), SAP, OpsWin (Environmental Regulatory Software), WordPerfect 6.1 and Corel WordPerfect 8.0, Netscape and Navigator, Lotus WordPro, Lotus Spreadsheet and Graphics, Lotus Notes, Microsoft Project, PI Process Book, Qupid, AutoCAD, Geographical Information Systems (GIS), Planning Software (Healy Ruff, Opto22, etc.) Maps, Teroman, Surfer, Unix, EPPL7, Technical Report Writing, Safety Reports, Flow and Sampling Instrumentation, Sewer & Water Main TV Inspections, Radon Testing, and State reporting..

TEACHING/TRAINING

Bay College – Full time academic instructor: water and environmental resource management Associates Degree Program.

Mead Paper Division - Operational and Mechanical Trainer, Safety Trainer, Paper Mill Tours, Presenter for numerous committees

Galien River Sanitary District - Plant Operational and Mechanical Trainer, Safety Trainer, District Board Presenter, Industrial Pretreatment Program Trainer, Sanitary District Tours

HONORS

- Dean's List for semester in 1992/93 at Bay de Noc Community College
- Dean's List for semesters 1994/95 at University of Wisconsin
- Dean's List 1998 at University Phoenix (Online program)
- Volunteer Fire Fighter for the Escanaba Township Fire Department
- Awarded from the Michigan Safety Council for incident rate and lost time lows
- Member of the Escanaba Elks Club