

A. SCOTT WEBER

A. Scott Weber is currently Professor and Chair in the Department of Civil Structural, and Environmental Engineering at the State University of New York at Buffalo. In addition, he serves as Director of the UB Center for Integrated Waste Management and Executive Director of the New York State Center for Hazardous Waste Management. Dr. Weber received his B.S. in Civil Engineering in 1977 and an M.S. in Sanitary Engineering in 1978 from Virginia Tech. In 1983 he received his Ph.D. in Civil Engineering from the University of California, Davis. His teaching responsibilities are in the areas of environmental engineering with a specialization in biological process analysis and design for soil and water bioremediation. His current research efforts are directed towards biodegradation of chemicals in water and soil and the reclamation of environmentally impacted sites known as brownfields.

Dr. Weber has conducted research at laboratory and field scale on a variety topics related to domestic wastewater treatment and contaminant biodegradation. A major focus of his research is related to PCB partitioning including the effects of particulate sorption on removal processes, and how long term passive biodegradation affects partitioning of PCBs. With his collaborators, his work on PCB availability was awarded the Silver Medal Award in February 1999 by the Consulting Engineers Council of New York and the Honor Research Award by the National Academy of Environmental Engineers in April 1999. Dr. Weber served as the site monitor for a unique collaborative New York State Department of Environmental Conservation and United State Environmental Protection Agency demonstration project for in-situ and ex-situ bioremediation technologies of chlorinated organics.

Professor Weber also has been active in seeking alternative approaches for stimulating redevelopment of brownfields. In addition to his research on remediation technologies which could be used at these sites, Dr. Weber has co-authored a report on the role of non-profits could play in brownfield redevelopment, developed a state-wide web accessible GIS database on remediated sites throughout New York State, and currently is conducting an analysis of contaminant background concentrations for use in establishing remediation standards. Through the UB Center for Integrated Waste Management he has provided technical assistance communities on brownfields redevelopment including Cattagragus Creek Task Force and the South Side High School Advisory Committee in Elmira, New York.

Weber is a former member of the Water Environment Research Foundation's Board of Directors and is past Chair of the Water Environment Research Foundation's Research Council. In addition he is past Chair of the Water Environment Federation's Literature Review Committee. He has served as a consultant to many industries, consultants, and government agencies on environmentally related issues.

As Director of the UB Center for Integrated Waste Management and Executive Director of the New York Center for Hazardous Waste Management, Dr. Weber administers research programs aimed at developing new and improved methods and technologies for industrial and hazardous waste management, including those that reduce the generation of waste, recover and recycle materials from wastestreams, enable safe and permanent cleanup of inactive hazardous waste disposal sites, and treat waste so that they can be disposed of properly.

Dr. A. SCOTT WEBER

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Education

Ph.D. Civil Engineering, University of California, Davis, 1983.

Dissertation: *Mechanisms and Prediction of Ammonia Nitrogen Conversion in Water Hyacinth Treatment System*, Advisor: George Tchobanoglous

M.S. Sanitary Engineering, Virginia Polytechnic Institute, 1978.

Thesis: *The Effects of Cadmium on the Completely Mixed Activated Sludge Process*

B.S. Civil Engineering, Virginia Polytechnic Institute, 1977.

Professional Experience

2005 – present, Chair, Department of Civil, Structural and Environmental Engineering, State University of New York at Buffalo

1996 - present, Professor, Department of Civil, Structural, and Environmental Engineering, State University of New York at Buffalo

1998 – present, *Director*, UB Center for Integrated Waste Management

1995 - present, *Executive Director*, New York State Center for Hazardous Waste Management

1987-1996, *Associate Professor*, Department of Civil Engineering, State University of New York at Buffalo.

1994-1995, *On-site Manager* for Joint New York State Department of Environmental Conservation/United States Environmental Protection Agency/New York State Center for Hazardous Waste Management Bioremediation Field Demonstration Project in Sweden, New York

1983-1987, *Assistant Professor*, Department of Civil Engineering, State University of New York at Buffalo.

1982-1983, *Associate Development Engineer*, Department of Civil Engineering, University of California, Davis.

1978-1982, *Postgraduate Research Engineer*, Department of Civil Engineering, University of California, Davis.

1977-1978, *EPA Environmental Trainee*, Department of Civil Engineering, Virginia Polytechnic Institute and State University

1974-1976, Co-op Student, Wilson T. Ballard Company, Consulting Engineers, Owings Mills, Maryland.

Appointments and Awards

Tau Beta Pi Professor of the Year, 2007
 New York Water Environment Association Kenneth Allen Memorial Award, for research paper on tetracycline antibiotic resistance in biological wastewater treatment
 American Academy of Environmental Engineering, Board Certified Member (eminence)
 Tau Beta Pi member by eminence, 2006
 Tau Beta Pi Professor of the Year, 2005
 Honor Research Award, National Academy of Environmental Engineers, April 22, 1999. For research conducted with CDM and ALCOA on developing a protocol for deriving cleanup levels for soils and sediments.
 Silver Medal Award, February 8, 1999. Consulting Engineers Council of New York, for research conducted with CDM and ALCOA on developing a protocol for deriving cleanup levels for soils and sediments.
 Appointed Director of UB Center for Integrated Waste Management, 1998.
 Appointed Executive Director of New York Center for Hazardous Waste Management, 1995.
 Appointed to Risked Based Corrective Action Steering Committee, New York State Department of Environmental Conservation, 1997
 Appointed to Technical Review Group, Radioactive Waste Management and Low Level Radioactive Waste Disposal, New York State Energy Research and Development Authority, 1994
 Appointed to Board of Directors, Water Environment Research Foundation, 1997
 Appointed Chair, Water Environment Research Foundation's Research Council, 1997
 Appointed Vice-chair, Water Environment Research Foundation's Research Council, 1995-1996
 Appointed to Water Environment Research Foundation's Research Council, 1993.
 Appointed to Education Sub-committee of U.S. Environmental Protection Agency's Bioremediation Action Committee, 1992.
 Principal Author with George Tchobanoglous as co-author of California's nominee for the Water Environment Federation's (formally Water Pollution Control Federation) Thomas R. Camp Medal, 1986.
 Awarded U.S. Environmental Protection Agency Environmental Traineeship, 1977-1978.

Courses Taught

Course Number	Course Title	Years Taught and Enrollment
CIE 302	Civil Engineering Seminar	1986 (43), 1987 (51)
CIE 440	Water Quality Principles	1983 (69), 1985 (67), 1987 (42)
CIE 340/440	Environmental Engineering	1998 (35), 1999 (60), 2000 (66), 2001 (55), 2002 (72), 2006 (75), 2007 (75)
CIE 442	Water Systems Design	1985 (9)
CIE 447	Environmental Engineering Practicum	2001 (6) 2002 (12), 2003 (8), 2004 (12)
ENM 104	Man, Environment, and Technology	1992 (20), 1993 (20)
CIE 505	Civil Engineering Graduate Seminar	1990 (3), 1991(1)
CIE 564	Chemical Principles of Environmental Engineering	2001 (17)

CIE 565	Biological Principles of Environmental Engineering	1985 (5), 1986, (10), 1988 (9), 1989 (19), 1990 (24), 1991 (37), 1992 (27), 1993 (27), 1995 (18), 1996 (28), 1997 (27), 1998 (20), 1999 (6), 2000 (13) 2002 (8), 2003 (8), 2004 (8), 2005 (6), 2006 (15)
Course Number	Course Title	Years Taught and Enrollment
CIE 566	Industrial Water and Waste Engineering	1984 (11)
CIE 568	Biological Unit Processes	1985 (10), 1986 (3), 1987 (2), 1988 (10), 1989 (8), 1990 (10), 1991 (13), 1992 (15), 1993 (13), 1994 (10), 1995 (12), 1996 (10), 1997 (12), 1998 (8)
CIE 570	Water Quality Principles	1983 (5) 1984 (6)

Supervised Ph.D. Dissertations

Sungpyo Kim, The Effect of Operational Parameters on the Fate of Tetracycline Resistant Bacteria in Biological Wastewater Treatment Plants, February 2005.

Ghosh, Upal, Desorption and Biodegradation of PCBs, January 1998.

Cowan, Robert M., Effect of Interspecies Interactions on Population Dynamics in a Chemostat as Related to Bacterial Supplementation Processes. 1994

Lange, Clifford R., The Effect of Process Dilution Rate on the Response of Bacteria to Cadmium, 1993.

Lai, Ming-Shen, Sequential Chemical/Biological Oxidation of Simazine, 1992.

Lin, Wei, Dynamic Modeling of the Biological Activated Carbon (BAC) Process and its Experimental Corroboration, 1992.

Goeddertz, John G., Anaerobic Biological Activated Carbon (AnBAC) Treatment of a Multicomponent Wastewater, 1990.

Chong, Nyuk-Min, Characteristics of Xenobiotic Degradation and Continuous Production of Xenobiotic Degrading Bacterial Populations, 1988.

Hartman, James R., A Rational Methodology for Evaluating the Biological Mineralization of Xenobiotics, 1988

Supervised M.S. Theses

Jeffery Tudini, Performance Evaluation of Full Scale Leachfield Tire Derived Aggregate, Expected May 2007.

Leila Sermek, Biodegradation of Antibiotics Under Nitrifying and non-Nitrifying Conditions, Expected May 2007.

Jason Golubski, Spatial Variations in New York State Metal Background Concentrations, May 2005.

Daniel Milewski, Spatial Variations in New York State PAH Background Concentrations, May 2005.

David Bradley, Analysis of Wind Farm Siting on Western New York Brownfields, May 2005.

Smith, Jennifer, Phosphorus Removal From Wetland Effluent by High Permeable Sorption Walls, January 2004.

Brian Zabel, Occurrence of Tetracycline Resistant Microorganisms in Wastewater Treatment Biological Processes and Effluents, September 2003.

Thyagarajan Sharkar Ram, Development of a Web-based Database for Remediated Inactive Hazardous Waste Sites, May 2002.

Robinson, Sharon, The Use of Chipped Tires as an Alternative Aggregate in Septic System Leachfields, February 2001.

Soma Bhadra, Resin Remediation of PCB Contaminated Soil, September 2000

Matraka, Maria, Effects of PCB Bioremediation on Reduction of PCB Leaching and Toxicity, expected September 2000.

Biondolillo, Matthew, Phytoremediation of VOCs Impacted Soil from a Former Manufacturing Facility, 1998.

Clark, Leah, Phytoremediation of Metals Impacted Soil from a Former Manufacturing Facility, 1998.

Staniszewski, Chad, Biostabilization of Soil/Sediment PCBs, 1997.

Jansen, Leslie, Biodegradation of PCBs in the Presence and Absence of Solid Phase Adsorbents, 1996.

Ranhakrishnan, Karthikeyan, Influence of Polymer on Bacterial Transport Through Soil Columns, 1996.

Sequential Chemical/Biological Treatment of a Biologically Pretreated Coking Plant Wastewater, 1996

Varner, Curtis J., Application of a Continuous Flow UV Mutation Selection Device for Enhancement of Chlorinated Organic Biodegradation, 1994.

Graham, Thomas R., A Bench Scale Study on the Effect of Bioaugmentation on the Performance of Activated Sludge Reactors, 1994.

Khandelwal, Ashutosh, Bacterial Transport Through Soil Columns, 1994.

Sisodia, Sandeep, Continuous Culture Biodegradation of Simazine's Chemical Oxidation By-Products, 1993.

Ghosh, Upal, Parameterization and Application of Kinetic Models to Describe Xenobiotic Biodegradation During Batch and Continuous Growth, 1992.

Herdic, Stephanie L., Enzyme Phenomena in Pure Culture Systems, 1992.

Sebastian, Joseph, Sequential Chemical/Biological Oxidation of Chlorendic Acid, 1992.

Kwo, Jiong, Hung, Determination of Bacterial Solids Levels in Combined Biological Activated Carbon (BAC) Systems, 1992.

Kyles, James H., Supplementation of a Sequencing Batch Reactor with Powdered Activated Carbon for Aqueous Phase Hazardous Waste Treatment, 1992.

Denzler, Steven, The Development of a Biological Reactor to Determine Interspecies Competition Kinetics of Bacterial Supplements, 1991.

McCue, Kathryn A., The Effects of Mean Cell Residence Time on the Response of Activated Sludge To Shock Loadings of 2-chlorophenol., 1991.

Gaiek, Roberta, L., The Effects of Immobilization Carrier Selection on Bacterial Supplement Performance, 1991.

Lin, Wei, Aerobic Biological Activated Carbon (BAC) Treatment of a Phenolic Wastewater, 1989.

Lange, Clifford R., Constraints of Bacterial Supplementation for Enhanced Hazardous Waste Biodegradation, 1988.

Goeddertz, John G., Off-line Biological Regeneration of Granular Activated Carbon Saturated with Phenol, 1986.

Sinclair, Daryl, J., The Environmental Impact of the Deicer CMA on Natural Systems, 1986.

Supervised M.E. Projects

Patrick Goodfellow, Comparative Analysis of Record of Decision and Final Cleanup Goals in New York State Superfund Sites, February 2008.

Daniel Milewski, Spatial Variations in New York State PAH Background Concentrations, May 2005.

Nate Simon, Reduction of Pharmaceutical Toxicity by Combined Biological/Activated Carbon Treatment, May 2005.

Sungpyo Kim, Process Control of Dissolved Oxygen in Suspended Growth Processes, 2001.

Walck, Tim, Wastewater Treatment for Small Communities/Institutions to Meet Nitrification and Intermittent Stream Requirements, 1997

O'Mara, Mary K., Bioremediation Case Study of Petroleum Contaminated Soil, Including Nutrient Addition at Kincheloe AFB, Kinross, Michigan, 1997.

Snyder, Todd, Measurement of JP-4 Biodegradation Rates in Soil as a Function of Temperature Using Respirometry. 1996

Kufel, Todd, Analysis of the New York State Demonstration of Bioremediation Technology at the Sweden-3 Chapman Site, 1996.

Prabhu, Beena, G., Removal Of Simazine's Chemical Oxidation Products Using a Biological Activated Carbon (BAC) Process, 1994.

Kai, Gensen, A Continuous Flow UV-Induced Mutation Technique for Biodegradation of Recalcitrant Organic Compounds, 1990.

Hsu, Sheng-Hsiung, Treatment of Leachate from Modern Landfill by the Anaerobic Biological Carbon (BAC) Process, 1990.

Rabideau, Alan J., Benefits and Costs of Calcium Magnesium Acetate (CMA) as an Alternative Road Deicing Agent for Buffalo, New York, 1986.

Funded Research

Partnership for Innovative Civil Engineering Use of Tire Derived Aggregate, Empire State Development, 12/1/2006 – 11/30/2011, \$1,763,400. Research to develop and implement use of tire derived aggregate in civil engineering applications, with Lou Zicari as PI.

City of Lackawanna Brownfield Assistance Program, USEPA, 10/1/2006 – 9/30/08, \$80,000, Provide assistance to the City for Lackawanna in redeveloping environmentally impacted properties, with Lou Zicari as PI.

Brownfields Training Initiative, USEPA, 10/1/2006 – 9/30/08, \$142,000, Provide training for entry level technicians for field investigations, with Lou Zicari as PI.

National Grid, 01/01/07 – 12/31/07, \$81,615, Evaluation of soil vapor intrusion at MGP sites, with Alan Rabideau as PI.

Brownfields Research Support, National Grid, 5/05 – 4/06. \$50,000, Principal investigator.

Long-Term Acceptability of Tire Chip Aggregate in Onsite Wastewater Treatment Systems, 4/05 – 11/06, Empire State Development, \$200,000, Co-principle investigator with Lou Zicari.

Comparative Analysis of Process Improvements to Reduce Toxicity of Fujisawa Healthcare Inc. Effluents. Fujisawa Healthcare, Inc. 7/04 – 1/05. \$39,551, Principal investigator.

Brownfields Research Support, National Grid, 5/04 – 4/05. \$45,000, Principal investigator.

Supplemental Funding for Western New York Brownfields Training Initiative, US Environmental Protection Agency, 11/02 – 5/04, \$50,000, Co principal investigator.

Additional Services to Village of Gowanda - Peter Cooper Superfund Site Reuse Assessment and Concept Plan, Village of Gowanda through USEPA, 8/02 – 12/02, \$11,000, Co principal investigator

City of Lackawanna - USEPA Brownfields Assessment Assistance, City of Lackawanna, New York through USEPA, 6/03 – 5/04, \$45,871, Co principal investigator

New York State Center for Hazardous Waste Management, New York State Department of Environmental Conservation, 11/01 – 9/04, \$500,000, Project Director.

Superfund Redevelopment Initiative - Reuse Planning for the Peter Cooper Gowanda Site, US Environmental Protection Agency , 11/01 - 7/02, \$55,000.

Evaluation of the Hydraulic Characteristics of Tire Chips as a Replacement for Natural Aggregate in Septic System Leachfields. Empire State Development, 7/01 - 6/02. \$16,000, Project Director.

Storm Water Training Workshops, NYSDEC, 11/01 - 09/03, \$13,800, Project Director

Pollutant Minimization Plan Workshops, NYSDEC, 3/02 - 2/03, \$57,997, Project Director

Evaluation and Analysis of Fujisawa SBR Treatment System for New Product Wastewater, Fujisawa Healthcare, 5/02 - 9/02, \$34,945, Project Director

Center for Integrated Waste Management, UB Provost Office, 7/1/01 – 6/30/02, \$40,000, Project Director.

Brownfields Action Project, Niagara Mohawk, 9/1/01 - 8/31/02, \$66,670, Project Director.

Center for Integrated Waste Management, UB Provost Office, 7/1/00 – 6/30/01, \$61,000, Project Director.

Brownfields Action Project, Niagara Mohawk, 9/1/00 - 8/31/01, \$66,670, Project Director.

Southside High School Technical Support, USEPA, 12/01/00 - 11/30/01, \$42,000, Co-Project Investigator.

Brownfields Comparative Analysis Research Design and Interdisciplinary Course Development, Environment and Society Institute, 7/01/00 - 6/30/01, \$17,000, Project Director.

Stormwater Programs for Decision Makers, \$48,601, 5/00 – 12/00, NYSDEC, Project Director.

Western New York Brownfields Training Initiative, \$200,000, 6/00 – 5/02, USEPA, Co-Project Investigator.

Feasibility Study of Increased Wood Recycling for MDF Manufacturing, \$40,900, 4/00 – 4/01, Empire State Development Environmental Management Investment Group Co-Project Investigator.

Analysis of Aniline and Ammonia Recovery Options for Buffalo Color Corporation, \$27,000, 1/00 – 5/00 UB Business Alliance,

Bench Scale Treatability of Golden Artist Wastewater, \$17,500, 1/00 – 6/00, NYSERDA, Project Director.

Center for Integrated Waste Management, UB Provost Office, 7/1/99 – 6/30/00, \$61,000, Project Director

Resins Technology for Remediation of PCB Contaminated Soils/Sediments, \$27,700, NYSERDA, 5/99 – 4/00, Project Director

Bench Scale Treatability of Process X Wastewater in Sequencing Batch Reactors, \$22,400, Stearns and Wheler, 4/99-6/99, Project Director.

Recycling of Metal Grinding Swarf, \$50,494, Empire State Development, 5/98 -11/99. Co-PI .

Non Profit Facilitation of Brownfield Redevelopment, \$20,000, UB Institute for Society and Environment, 8/98 – 5/99, Project Director.

Recycling Waste Water at an Acrylic Paint Manufacturing Facility, \$16,919, Golden Artist Colors, 9/98 – 11/98, Project Director.

Environmentally Benign Chemical Processes and Products. \$302,660, 8/15/98 - 8/14/01, co-PI with Carl Lund as Project Director.

Pollutant Minimization Plans: Workshop and Supporting Materials, \$20,000, United States Environmental Protection Agency, 9/98 – 10/98, Project Director.

Water Quality Workshops, \$17,000, New York State Department of Environmental Conservation, 11/98 – 6/99, Project Director.

Treatability of Process X Wastewater, \$9,647, Stearns and Wheler, LLC. 10/98-11/98, Project Director.

Evaluation of Bion, Inc. Nutrient Management System, \$7,500, UB Strategic Partnership for Industrial Resurgence, 9/98 – 11/99, Project Director.

Tire Chips as Replacement for Natural Aggregate in Leachfields, \$82,418, Empire State Development, 5/98 -11/99. Project Director .

Niagara County Environmental Fund, \$2,500,000, State of New York, 5/97-4/2002, Project Director

Groundwater Sulfide Mitigation, \$11,012, Buffalo Crushed Stone, 3/98 - 6/98, Project Director.

Household Hazardous Waste Workshops, \$19,500, United States Environmental Protection Agency, 10/97-9/98. Co-PI with Lou Zicari.

Resource Recovery Technology for Metal Platers, \$182,289, NYSERDA, co-PI with Jim Jensen as Project Director

Field Demonstration of Phytoremediation at the Arcade Prestolite Facility, \$42,087, Motorola, 6/97 - 4/98, Project Director.

Analysis of the Praxair In-situ Oxygenator, \$43,194, Praxair, 12/1/96 - 12/31/98, co-PI with Jim Jensen as Project Director.

Site Specific PCB Desorption/Adsorption Analysis of Massena PCB Impacted Soils, \$52,602, ALCOA, 11/97 - 6/98, Project Director.

Industrial Assistance Through the New York State Center for Hazardous Waste Management. \$25,000, Strategic Partnership for Industrial Resurgence 7/97 - 6/98, Project Director.

Environmentally Acceptable Endpoints for Hydrophobic Organics in Soils and Sediments, \$3,000, Great Lakes Research Consortium, 7/96 - 6/97, Co-principal Investigator with Joe DePinto

Industrial Assistance Through the New York State Center for Hazardous Waste Management. \$25,000, Strategic Partnership for Industrial Resurgence 7/96 - 6/97, Project Director.

Targeted Industrial Waste Inventory, \$37,358, Empire State Development, 3/97 -2/98. Project Director

Containment Technology Study, \$47,002, DuPont, 11/97 - 12/97, co-principal investigator with Alan Rabideau

Modeling of Permeable Reactive Barriers, \$8,604, General Electric, 1/97 - 7/97, co-principal investigator with Alan Rabideau

PCB Mobility Reduction by Biostabilization of PCBs, \$149,801. U.S. Department of Energy, 10/1996 - 9/1997, Project Director

Phytoremediation of VOC and Metals Impacted Soils, \$50,000, Motorola, Inc., 10/1996 - 19/1997, Project Director.

Water Reuse and Metals Recovery in the Metal Finishing Industry, \$66,593, NYSERDA, 8/1996 - 12/1997, Co-principal Investigator with James N. Jensen

Industrial Assistance Through the New York State Center for Hazardous Waste Management. \$25,000, Strategic Partnership for Industrial Resurgence 7/95 - 6/96

Evaluation of Environmental Acceptable Endpoints, \$10,000, ALCOA, 4/96 - 12/96, Project Director.

Biodegradation of Sorbed PCBs, \$40,000, ALCOA, 9/95- 12/96, Project Director

Equipment Grant: Microbics Corporation, \$9,856, 1995, Project Director.

Biological Activated Carbon Treatment of Waters Containing PCBs, New York State Energy Research and Development Authority, \$75,779, 1994-1995, Project Director.

Treatment of Low Concentration PCB Waters, ALCOA, \$47,036 1994-1995. Project Director.

Transport of Non-indigenous Bacteria in Groundwater for the Initiation of In-situ Bioremediation of Organic Contaminants, United State Geological Survey, \$81,169, 1991-1995, Project Director

Multivendor Superfund Site Bioremediation Demonstration, New York State Center for Hazardous Waste Management, \$108,930, 1994-1995, Project Director.

A Linked Groundwater-Stream Contaminant Transport Model for the Machias Gravel Pit Site, Motorola, Inc., 1993-1995, \$149,833, co-principal investigator with Joseph Atkinson and Alan Rabideau.

Development of Engineered Sequential Chemical/Biological Oxidation Processes for Mineralization of Simazine, Shimizu Corporation, \$55,000, 1992-1993, Project Director.

"Application of Continuous Flow UV Mutation Device for Enhancement of Chlorinated Organic Biodegradation," New York State Center for Hazardous Waste Management, \$55,300, 1992-1993, Project Director.

"Sequential Chemical/Biological Oxidation Processes for the Treatment of Organic Chemicals," Shimizu Corporation, \$100,744, 1990-1992, Project Director.

Combined Chemical/Biological Oxidation for the Reduction of Hazardous Waste Toxicity," New York State Center for Hazardous Waste Management, \$169,757, 1990-1992, Co-principal investigator with James N. Jensen.

Particle/Fluid Hydrodynamics in Biological Activated Carbon Processes," Occidental Chemical Corporation, \$18,860, 1990-1991, Project Director.

"Biologically Induced Corrosion of Fireproofed Structural Steel Members," SUNY Construction Fund, \$40,000, 1989 - 1990. Project Director.

"Effect of Interspecies Competition on Hazardous Waste Degradation by Bacterial Supplements," New York State Center for Hazardous Waste Management and Occidental Chemical Corporation, \$146,000, 1988 - 1990. Project Director.

"Anaerobic Biological Activated Carbon (AnBAC) Treatment of Multicomponent Hazardous Wastes," New York State Center for Hazardous Waste Management and Occidental Chemical Corporation, \$149,000, 1988 - 1990. Project Director.

"Biological Activated Carbon Treatment of Phenolic Wastewater," New York State Energy Research and Development Authority (co-funded by Occidental Chemical Corp.), \$54,500 (continuation grant), 1988 - 1989. Project Director.

"Feasibility of Anaerobic Activated Carbon Treatment for High Strength Landfill Leachates," New York State Energy Research and Development Authority (subcontractor to Waste Resources, Inc.), \$31,000, 1988 - 1989. Project Director.

"Use of Metal Adsorbing Compounds to Mitigate Heavy Metal Toxicity in Suspended Growth Biological Unit Processes," New York State Center for Hazardous Waste Management, \$46,544, 1988 - 1989. Co-principal investigator with Mark R. Matsumoto.

"Feasibility of Metal Adsorbing Compound (MAC) Columns to Mitigate Adverse Effects of Metals in SBR Process Influent," CECOS International, Inc., \$22,228, 1988, co-principal investigator with Mark R. Matsumoto.

"Improved Immobilization Techniques for Specialized Bacterial Cultures," New York State Science and Technology Foundation and CECOS International, Inc. \$55,000, 1987 - 1988, Project Director.

"Assessment of OCC Bacterial Strains for Supplementation," Occidental Chemical Corporation, \$49,696, 1987 - 1990, Project Director.

"Removal Strategies for Metals Found in CECOS Wastes," CECOS International, Inc., \$11,990, 1986 - 1987, Co-principal Investigator with Mark R. Matsumoto.

"Enhanced Biodegradation of Chlorinated Organics," New York State Science and Technology Foundation, \$34,000, 1986 - 1987, Project Director. "Use of Powdered Activated Carbon In Sequencing Batch Reactors," CECOS International Inc., \$6,160, 1986 - 1987, Project Director.

"Implications Resulting From the Application of Calcium Magnesium Acetate (CMA) as an Alternative Road Deicer," Great Lakes Program, State University of New York at Buffalo, \$13,648, 1986 - 1987, Co-principal Investigator with Mark R. Matsumoto.

"Biological Activated Carbon Treatment of a Phenolic Wastewater," Joint funding from; The New York State Energy Research and Development Authority, Occidental Chemical Corporation, and SUNY-AB, total external funding: \$75,164, 1986 - 1988, Project Director.

"Development of Specialized Bacterial Cultures for Enhanced Biodegradation of Selected Landfill Leachates," CECOS International, Inc. and New York State Science and Technology Foundation, \$51,310, 1986 - 1987, Project Director.

"Feasibility of Metal Absorbing Compound (MAC) Supplementation to Mitigate Adverse Effects of Metals in SBR Process Influent," CECOS International, Inc., \$17,345, 1986 - 1987, co-principal investigator with Mark R. Matsumoto.

"Enhanced Biodegradation of Industrial Pollutants Through Bioaugmentation," Occidental Chemical Corporation, \$25,000, 1985 - 1986, Project Director.

"Feasibility and Applicability of Intermittent Biological Treatment of Hazardous Wastes, URS Company, Inc., \$16,500, 1985 - 1986, Project Director.

"Process Development for Intermittent Treatment of Hazardous Waste," URS Company, Inc., \$22,000, 1984 - 1985, Project Director.

"Dynamic Response Time For Hazardous Remediation Using Biotechnology," Research Foundation of the State University of New York, \$3,000, 1984, Project Director.

"Land Application of Municipal Sludge," Town of Amherst, New York, 1984 - 1985, \$26,500, Co-principal Investigator with Mark R. Matsumoto.

Books

Hazardous and Industrial Wastes, Proceedings of the Twenty-Eighth Mid-Atlantic Industrial and Hazardous Waste Conference, Edited by A.S. Weber, 838 pages, Technomic Publishers, Lancaster, PA.

Book Chapters

Removal of Pharmaceuticals in Biological Wastewater Treatment Plants, S Kim, A.S. Weber, A. Batt, and D.S. Aga, Fate of Pharmaceuticals in the Environment and in Water Treatment Systems, Edited by D.S. Aga, Chapter 15, pp 348-362, CRS Press, Taylor and Francis Group, Boca Rotan, FL, 2008.

Waste Management and Recycling, J.N. Jensen, M.R. Ryan, J.E. Van Benschoten, and A.S. Weber, Encyclopedia for Applied Physics, Vol. 23, 355-374.

Mosquito Considerations in the Design of Wetland Systems for the Treatment of Wastewater, Stowell, R., A.S. Weber, G. Tchobanoglous, B.A. Wilson, and K.R. Townzen: "*Ecological Considerations in Wetlands Treatment of Municipal Wastewaters*", Edited by P.J. Godfrey et al., pp 38-47, Van Nostrand Reinhold Company, New York, 1985.

Journal Publications

Sungpyo K., Jensen, J.N., Aga, D.S., and Weber, A.S., Impact of SBR Operation on the Tetracycline Intermediate Resistant and Resistant Bacteria, Water Environment Research, 39, July 2007

Rabideau, A.J., Milewski, D., Golubski, J., and A.S. Weber, Background Concentrations of Polycyclic Aromatic Hydrocarbon (PAH) Compounds in New York State Soils, Environmental Forensics, Environmental Forensics, 8, No. 3, September 2007.

Sungpyo K., Jensen, J.N., Aga, D.S., and Weber, A.S., Fate of Tetracycline Resistant Bacteria as a Function of Activated Sludge Process Organic Loading and Growth Rate, in press, *Water Science and Technology*, 55, (1,2), 291–297, 2007.

Sungpyo K., Jensen, J.N., Aga, D.S., and Weber, A.S., Tetracycline as a Selector for Resistant Bacteria in Activated Sludge, *Chemosphere*, 66 (9), 1643-1651, 2007.

Kim, S., Eichhorn, P., Jensen, J.N., Weber, A.S., and Aga, D.S., Removal of Antibiotics in Wastewater: Effect of Hydraulic and Solids Retention Times on the Fate of Tetracycline in the Activated Sludge Process, *Environ. Sci. Technol.*, 39 (15), 5816 -5823, 2005.

McNamara, S.W., Ghosh, U., Dzombak, D., Weber, A.S. Smith, J.R. and Luthy, R.G., "Effect of Oil and Grease on PCB Phase Partitioning During Land Biotreatment of PCB-Impacted Sediment," *Journal of Environmental Engineering, ASCE*, **131**:2 278-286, 2005.

Spagnoli, J., A.S. Weber, and T. Richards, "An Alternative to Scrapping Scrap Tires" *Waste Age*, **30**, 12-14, 2000

Ghosh, U.; Weber, A.S.; Jensen, J.N.; Smith, J.R. "Relationship Between PCB Desorption Equilibrium, Kinetics and Availability During Land Treatment," *Environ. Sci. Technol.*, **34**, 2542-2548, 2000.

Ghosh, U., A.S. Weber, J.N. Jensen, and J.R. Smith, Congener Level PCB Desorption Kinetics of Field Contaminated Sediments, *Journal of Soil Contamination*, 8, 593-613, 1999.

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Weber, A.S., New Directions for the Center for Hazardous Waste Management, Presented at the Technical March 1997 Meeting of the Niagara Section of the Professional Engineers Society, 1997.

Weber, A.S., Environmental Engineering and Science Program, Presented at the Technical Communication Exchange with Eastman Kodak, Tuesday October 8, 1996, Buffalo, NY.

W. Lin and Weber, A.S., Estimation of Microbial Kinetic Parameters Using Non-linear Regression Method, 28th Mid-Atlantic Industrial and Hazardous Waste Conference, Buffalo, NY, July 1996.

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Weber, A.S., and G.Tchobanoglous: "Fixed-Film Nitrification Using Water Hyacinths," Second International Congress on Fixed Film Biological Processes, Washington, D.C., July 1984.

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Koltz, J.K., A.S. Weber, M.R. Matsumoto, and G. Tchobanoglous: "Treatment of an Altered Wastewater with Trickling Filters," 56th Annual Water Pollution Control Federation Conference, Atlanta, Georgia, October 1983.

Weber, A.S., and G. Tchobanoglous: "Nitrogen Removal in Water Hyacinth Treatment Systems," 56th Annual Water Pollution Control Federation Conference, Atlanta, Georgia, October 1983.

Weber, A.S., and G. Tchobanoglous: Factors Affecting Nitrogen Removal in Water Hyacinth Treatment Systems," 1983 Conference on Environmental Engineering, ASCE Environmental Engineering Division, Boulder, Colorado, July 1983.

Weber, A.S.: "The Use of Aquatic Macrophytes for Removal of Toxic Organic Substances," University of Maryland, College Park, Maryland, February 1982.

Weber, A.S.: "The Use of Aquatic Macrophytes for the Removal of Toxic Organic Substances," Eastman Kodak, Kingsport, Tennessee, February 1982.

Weber, A.S., G. Tchobanoglous, J.E. Colt, R.W. Ludwig, and R.E. Stowell: "Aquatic Systems for Secondary and Advanced Treatment of Wastewater," National Conference on Environmental Engineering, ASCE Environmental Engineering Division Specialty Conference, Atlanta, Georgia, July 1981.

Sherrard, J.H., A.S. Weber, M.M. Bagby, and S. Sujarittanonta: "The Influence of Cadmium, Nickel, and Cadmium-Nickel Mixtures on Activated Sludge Process Performance," International Conference on Management and Control of Heavy Metals in the Environment, London, England, 1979.

Sherrard, J.H., S. Sujarittanonta, A.S. Weber, and M.M. Bagby: "The Influence of Cadmium and Nickel on Activated Sludge Process Performance," American Society of Civil Engineers Convention and Exposition, Atlanta, 1979.

Professional Memberships

Air and Waste Management Association, 1995-present
Association of Environmental Engineering Professors, 1985-present
American Society of Civil Engineers, 1983-present
International Association on Water Quality, 1988-present
Water Environment Federation. 1978-present
Western New York ACS Environmental Group 1984-1988

Positions Held in Professional Organizations

American Society of Civil Engineers, Environmental Committee, Chairman, Buffalo Section, 1984
Western New York ACS Environmental Group, Secretary 1984-86
Western New York ACS Environmental Group, President 1986-88
Lead Author of WPCF Activated Sludge Literature Review 1985-1990.
Vice Chairman of WPCF Research Committee, 1990-1992.
Chairman WEF Literature Review Committee (formally Research Committee) 1992- 1994
Water Environment Research Foundation Research Council Member (1993- 1998
Vice Chair of Water Environment Research Foundation Research Council 1994-1996
Chair, Water Environment Research Foundation Research Council 1997 - present
Chair, Water Environment Research Foundation Research Council Nominating Committee, 1994-1998
Board of Directors, Water Environment Research Foundation 1997 - 1998
Board of Directors, Niagara Frontier Section, Air Waste Management Association 1996 - present

Professional Service Activities

Chairman, 28th Annual Mid-Atlantic Hazardous and Industrial Waste Conference, New York, July 1996
Reviewer, Tenure Cases at West Virginia, Louisiana State University, Purdue University, UC Davis, Case Western, New Hampshire
Reviewer, American Society of Civil Engineers, Env. Eng. Div.
Reviewer, Biodegradation
Reviewer, Chemical Engineering Communications
Reviewer, Water Environment Federation
Reviewer, Water Research
Reviewer, New York State Center for Hazardous Waste Management
Reviewer, EPA Regional Centers for Hazardous Waste Research: Region 1 and 2; Regions 3 and 4; and Gulf Coast Laboratory
Member, Bioremediation Education Subcommittee, Bioremediation Action Committee of the USEPA
Member, Low Level Radioactive Waste Technical Review Group, NYS Energy Research and Development Authority
Member, Water Environment Federation Literature Review Committee
Member, Water Environment Federation Research Council
Engineer-in-Training, Virginia

University Service

Presidential Review Board, September 2004 – May 2005
Chair, Task Group on Centers and Institutes, Office of the Vice President for Research
Chair, Provost Search Committee, December 2003 to April 2004
Presidential Search Committee: May 2003 to October 2003
Steering Committee: Environment and Society 1997- 2001
Provost Committee on Research , 1999 - 2001
Committee: Stresses on Research and Education, 1996
Environmental Task Force, 1992-1994
Committee: Structural Barriers to Multidisciplinary Research

School of Engineering and Applied Science Service

Chair, Mechanical and Aerospace Engineering Chair Search Committee, 2008
Faculty Personnel Committee, 1993-1996, 2002 -2004, Chair 2003-2004
Bioengineering Laboratory Task Force, 1992
Director, Environmental Science Graduate Program, 1989
Advisor, Air and Waste Management Association Student Chapter, 1995-present
Advisor, Water Environment Federation Student Chapter, 1993-present

Departmental Service

Chair, 2005 to present
Undergraduate Studies Committee, 2003 to 2005
Committee Chair for Future Directions of Construction Management, 2002
Coordinator, Environmental Engineering Program, 1987-1995, 2000 to 2003
Director Graduate Studies, 1987
Director of Graduate Admissions, 1987-1995
Graduate Studies Committee, 1983-1996
Advisor, Graduate Student Association 1991 - 1996
Departmental Public Relations Committee 1996 - present
Faculty Search Committee Member, 1988, 1989, 1993, 1994, 1995, 1996,
Chair, Faculty Search Committee, 1996-1997, 1997-1998, 1998-1999, 2000-2001, 2001-2002