

# RESUME

## I. PERSONAL

Name: George P. Korfiatis

Academic Rank: McLean Chair Professor of Environmental Engineering  
Dean, Charles V. Schaefer Jr. School of Engineering

Business Address: Office of the Provost  
Stevens Institute of Technology  
Hoboken, NJ 07030  
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## II. EDUCATION - DEGREES

**Master of Engineering (Honorary)**  
Stevens Institute of Technology, 1995

**Doctor of Philosophy**  
Water Resources/Environmental Engineering  
Rutgers University, Department of Civil and Environmental Engineering, 1984

**Master of Philosophy**  
Rutgers University, Department of Civil and Environmental Engineering, 1982

**Master of Science**  
Water Resources Engineering, Rutgers University, Department of Civil and  
Environmental Engineering, 1980

**Bachelor of Science**  
Civil Engineering with Honors, Rutgers University, 1978

### III. EXPERIENCE

#### A. Teaching Research and Administration

Dec. 2006- Present

##### *Provost and University Vice President*

Responsibilities and Authority:

- Under the President, the Provost and University Vice President is the second most senior officer of the Institute.
- Chief Academic Officer, Budget Officer, and the President's deputy and principal adviser on all matters affecting the educational and academic operations of the Institute.
- Responsible for the formulation and administration of Institute academic policy, in consultation with the Academic Deans and the Faculty Council.
- Sets goals and objectives and policy for the overall academic programs of the Institute and advises, and acts as the representative of the President on academic matters affecting the faculty and students of the Institute.
- Direct oversight of undergraduate and graduate education, research, libraries, continuing education, and schools, centers and institutes on campus.
- Ensures, in coordination with all other direct reports to the President, that all functions and operations of the Institute best support its academic mission.

Sept. 2002 - Dec. 2006

##### *Dean, Charles V. Schaefer Jr. School of Engineering*

As the Dean of the Charles V. Schaefer Jr. School of Engineering (SSoE) at Stevens Dr. Korfiatis had responsibility over all academic and administrative functions of the School. SSoE has over 1200 undergraduate students in eight academic programs and over 1100 graduate students including 150 doctoral students. SSoE has over 100 regular and research faculty and an annual budget of more than \$38 million including externally funded research. Under the leadership of Dr. Korfiatis the Schaefer School has implemented an environment of Technogenesis where faculty and students work to enhance inventiveness, creativity and entrepreneurship as the core values of its educational foundation.

May 1989 - Sept. 2002:

*Founding Director of the Stevens Center for Environmental Engineering.*

Dr. Korfiatis founded the Center for Environmental Engineering (CEE) at Stevens Institute of Technology in 1989 and served as its Director until 2002. CEE developed and maintained degree, certificate and continuing education programs in environmental engineering, conducted research in a broad spectrum of environmental topics and fostered partnerships with government, industry and environmental service organizations for cooperative solutions to environmental problems. Dr. Korfiatis was responsible for directing all activities of CEE including: Development and maintenance of undergraduate and graduate curricula; Continuing professional education and training programs; Public education programs; Development and maintenance of laboratory and research facilities; Basic and applied research; Promotion and marketing of educational and research programs; Fund raising and Industry - University relations.

September 1995-January 2002

*Associate Director of Center for Bioregenerative Life Support: A NASA Specialized Center of Research and Training Center in New Jersey. A collaborative Center between Rutgers the State University and Stevens Institute of Technology.*

September 1995-January 1998

*Acting Director of the Sediment and Dredged Material Technology Institute: A New Jersey Academic Research Consortium*

June 1999-Present

*McLean Chair Professor of Environmental Engineering, 1999*

September 1990 - Present:

*Tenured Professor* - Department of Civil, Environmental & Coastal Engineering.

September 1986 - August 1990:

*Associate Professor*, Coordinator of Environmental Engineering Programs, Department of Civil and Environmental and Coastal Engineering, Stevens Institute of Technology.

September 1983 - August 1986:

*Assistant Professor*, Department of Civil, Environmental and Coastal Engineering, Stevens Institute of Technology.

**Courses Developed and Taught**

*Undergraduate Level*

CE-226 Strength of Materials

CE-376 Environmental Systems  
CE-483 Geotechnical Engineering  
E-101 Engineering Seminar

*Graduate Level*

CE-503 Engineering Hydraulics  
CE-504 Water Resources Engineering  
EN-545 Environmental Impact Analysis and Planning  
CE-560 Advanced Soils Testing  
CE-611 Geotechnical Design  
EN-653 Groundwater Engineering  
EN-685 Advanced Hydraulics  
EN-686 Groundwater Hydrology and Pollution  
CE-687 Design of Hydraulic Structures  
EN-690 Groundwater Quality Management  
CE-749 Soil Mechanics

**June 1982 - August 1983**

**Research Associate:** Rutgers University, Department of Civil and Environmental Engineering. Co-Investigator in project entitled "Analysis and Simulation of Leachate Generation in Solid Waste Landfills and Resulting Contamination of Groundwater Supplies", funded by the New Jersey Department of Environmental Protection.

**September 1978 - June 1982**

**Teaching Assistant:** Rutgers University, Department of Civil and Environmental Engineering.

**Courses Taught:**

Fluid Mechanics Laboratory  
Soil Mechanics Laboratory  
Mechanics of Materials Laboratory  
Elements of Hydrology

**September 1978 - June 1979**

Graduate Research Assistant, Rutgers University, College of Engineering.  
Project: "Delaware and Raritan Canal Rehabilitation Studies". Responsible for hydraulic and hydrologic simulations of Delaware and Raritan Canal using the HEC-1, HEC-2 and TR-20 Models.

**June 1978 - June 1982**

**Field Engineer, Staff Engineer:** Melick-Tully and Associates, Inc. Geotechnical Consultants, 117 Canal Road, South Bound Brook, New Jersey (Full time in summer months, 50% time during academic year). Responsible for the field execution and engineering analyses (including report writing) of major exploratory and construction projects throughout the Eastern United States. Typical assignments included: United Parcel Service Warehouse, Worcester, Massachusetts; Middlesex General Hospital parking garage structure and medical school, New Brunswick, New Jersey; soils investigation for sewer line system of Franklin and Hamburg Boroughs, Sussex County, New Jersey; surcharge study, Hartz Mountain Industries, Inc., Gateway

Industrial Park, Secaucus, New Jersey; Morse Chain Company Industrial Plant, Ithaca, New York.

#### **IV. HONORS AND AWARDS**

Finalist, Tech Museum Technology Awards, Environmental Division, 2002  
McLean Chair Professor of Environmental Engineering, 1999  
Exemplary Achievement in Research Award, Stevens, 1995  
Member of Chi Epsilon, National Honor Fraternity for Civil Engineers  
Member of Tau Beta Pi, National Engineering Honor Society  
Member of Sigma Xi Honorary Research Fraternity  
Listed in International Who's Who in Education  
Educator of the Year Award - Stevens Chi Epsilon, 1984

#### **V. PROFESSIONAL SOCIETIES**

Over his career Dr. Korfiatis has been a member of various professional organizations including:

Associate Member, American Society of Civil Engineers  
Member, International Society of Soil Mechanics and Foundation Engineering  
Member, International Association of Hydraulic Research  
Member, American Society of Testing and Materials  
Member, American Society of Engineering Education  
Member, American Geophysical Union  
Member, International Water Resources Association  
Member, American Water Resources Association  
Member, Technical Chamber of Greece  
Member, American Water Well Association  
Member, Air & Waste Management Association  
Member, Hazardous Materials Control Research Institute  
Member, Greek Hydrotechnical Association

#### **VI. PROFESSIONAL ACTIVITIES**

Dr. Korfiatis has served in numerous professional committees, boards, panels and other posts for a variety of professional organizations including:

- Member of NAE Panel on the Granger Challenge, 2005.
- Invited Hydroinformatics Session Organizer and Co-Chair, XXX IAHR Congress, International Association of Hydraulics Research, 2002-2003
- Founder and Chairman of the Conference Committee, International Conference on Protection and Restoration of the Environment (I, II, III, IV, V and VI) 1992-Present
- Member of the Review Board of the Tuskegee University ALS Program, NASA Advanced Life Support Division (1998-2001)
- Member of the Scientific Review Board, New Jersey Corporation for Advanced Technology (1999- present)

- Member, Advisory Board for Graduate Programs in Environmental Engineering, Aristotle University of Thessaloniki, Greece (2000-present)
- Member of the Space Station Node 3 Review Panel, NASA Advanced Life Support Program, Johnson Space Center. (2000)
- Member of the Editorial Board Journal of Environmental Science and Health Part A- Environmental Science and Engineering (1996-1999)
- Member of the Committee on Shipboard Pollution Control, Naval Studies Board, National Research Council, Appointed Nov. 18, 1994.
- Member of the New Jersey Pollution Prevention Council (Appointed by Governor Jim Florio, (1993)
- Member of the COAST Committee of New Jersey (1993-2002), Chairman of the Dredging Subcommittee
- Member of Geotechnical Assessment Division, NSF Industry/University Cooperative Center for Research in Hazardous and Toxic Substances (1985-2000)

Member of ASTM Subcommittees: (1986-1990)

D-18.20 Impermeable Barriers

D-18.14 Geotechnics of Waste Management

O-18.04 Hydrological Properties of Soil and Rock

Director: ASCE New Jersey Section (1989-1991)

President: ASCE North Jersey Branch (1988-1989)

President Elect: ASCE North Jersey Branch (1987-1988)

Vice President: ASCE North Jersey Branch (1986-1987)

Director: ASCE North Jersey Section (1986-1988)

Chairman: Hydraulics Committee ASCE North Jersey Branch. (1985-1987)

Chairman: Continuing Education Committee of ASCE North Jersey Branch. (1985-1987)

Member of the Editorial Board of Hydrosoft, International Journal, Computational Mechanics Institute (1988-1990)

Reviewer for the following professional journals and organizations:

ASCE Journal of Hydraulics

ASCE Journal of Environmental Engineering

ASCE Journal of Water Resources Management

ASCE Journal of Geotechnical Engineering

Water Resources Research

Water Resources Bulletin

Hydrosoft

National Science Foundation

American Geophysical Union

American Society for Testing Materials  
New Jersey Department of Environmental Protection  
Water Research  
Journal of Environmental Science and Technology  
Journal of Environmental Science and Health Part A- Environmental Science and  
Engineering  
John Wiley  
Fulbright Faculty Scholars Program  
J. Environmental Science and Technology

Registered Professional Engineer in Greece

## VII. ACADEMIC ACTIVITIES (Stevens)

### A. Thesis and Dissertation Supervision

Advisor in the following Ph.D. Dissertations and Masters Theses

*James E Collins, Ph. D.*

"Permeability of Concrete Mixtures" August 1986

*John R. Schuring, Ph. D.*

"Laboratory Study of Relaxation of Pile Groups Driven to Weak Rock" May 1987

*Asif Khan, M. E.*

"Effects of Phenol on the Hydraulic Conductivity of Compacted Clays" May 1986

*Loudovikos L. Seidas, M.E.*

"Experimental-Mathematical Investigations of Landfill Bottom Leachate Collection Systems" May 1986

*Djamel E. Lekmine, M. E.*

"A Geotechnical Study of Fly Ash-Kiln Dust", May 1986

*Chrissa E. Papaioannou, M. E.*

"Attenuation of Organics by Porous Elements Used in Groundwater Sampling Systems",  
May 1987

*Dimitris Dermatas, 6. E. (Senior Thesis)*

"Flow Characteristics of Landfill Collection Systems", May 1987

*Vincent Montanti, M. E.*

"Electroosmotic Treatment of Fine Grain Soils", May 1988

*Nidal Rabah, Ph. D.*

"Experimental and Mathematical Investigations of Flow and Mass Transport of  
Hazardous Liquids in Unsaturated Soils", May 1989

*Djamel E. Lekmine, Ph. D.*

"Effects of Petroleum Hydrocarbons on the Mechanical Properties of Soils", May 1991

*Nazmi M. Talimcioglu, Ph. D.*

"Modeling for Development of Soil Clean up Guidelines", May 1991

*Mark Volari, C.E.*

"An Expert System for Design of Leaching Fields", May 1992

*Dino Kostarelos, M. E.*

"Surfactant Enhanced DNAPL Flushing in Soil Columns", May 1993

*Mohammed Mohiuddin, M. E.*

"Experimental Sorption Studies and Fate and Transport of Pentachlorophenol in the  
Subsurface Environment", May 1993

*Stephen Mazzoni, M.E.*

"Dynamic Flow-Through Experiments and Reactive Mass Transport Modeling of Pentachlorophenol in Soils", May 1994.  
*Kimberly Davies, M. E.*  
"Surfactant Enhanced Washing of PAH Contaminated Soils", May 1994  
*Vijay Patel, ME*  
'A Chemical/Biological Technique for Decontamination of Chemically Treated Wood', May 1995  
*Mohammed Mohiuddin, Ph. D.*  
"Anaerobic Biodegradation of Pentachlorophenol in the Subsurface Environment", May 1996  
*Christopher Henry: M. E.*  
"Flow Regime Considerations, Oxygen and Nutrient Transfer in Trench Biosparge Systems" May 1998  
*Alex Makarigakis, Ph. D.*  
'Biowall Technology for In-Situ Treatment of Petroleum Hydrocarbons In Aquifers" May 2000  
*Themis Chronis M.E.*  
"Esturine Water Sampling for Trace Organics", May 2000  
*Brian Sauser, Ph. D.* (Co-Advisor with A. Shenhar)  
"Systems Innovation: In an Era of 'Lean Aerospace' and Better, Faster, Cheaper" 2004  
*Mahmood Wazne Ph.D.* (Co-advisor with X. Meng)  
"Innovative Treatment Processes for Depleted Uranium Contaminated Water" 2004

## B. Committee Memberships

Served as a member on more than 20 Ph.D. Dissertation Committees.  
Chairman of Graduate Admissions Committee, Department of Civil Engineering (1983-1990)  
Member of the Committee on Planning and Development of the Institute (1985-1990).  
Member of the Committee on Planning and Future Direction of the Department  
Member of the Graduate Committee of the Institute (1984-1990)  
Chairman of the Ph. D. Preliminary and Qualifying Examination Committee of the Department (1984-1992)  
Member Stevens Committee on Committees (1990-1992)  
Member of the Stevens Trustee Campus Building and Planning Committee (1992-1998)  
Member of the Stevens Faculty Council (1994-1996, 2001-2002)  
Team Leader, Stevens Faculty Excellence Team (1994-1996)  
Member and Chair of the Stevens Promotions and Tenure Committee (Three 2-year terms from 1990 to 2002)  
Chairman of the President's Technogenesis Implementation Task Force (2000-2002)  
Chairman CECE Department Faculty Promotions Committee (1994-present)  
Member, Executive Board, Stevens Environmental Alumni Professionals(1991-present)

In addition to those committees Dr. Korfiatis has served in numerous other assignments including serving in various search and interview committees for Faculty, Deans and Administrators, several of the President's task forces and a variety of departmental committees.

### VIII. SELECTED RESEARCH CONTRACTS & GRANTS

As the Director of the Center for Environmental Engineering Dr. Korfiatis has managed research contracts valued in excess of \$30 million. Specific research contracts and grants in which he has served as a principal or co-investigator include:

NO.	PROJECT TITLE / YEAR	FUNDING AGENCY	AMOUNT
	"Analysis and Simulation of leachate Generation and transport in Solid Waste Landfill and Resulting Contamination Groundwater Supplies", (Co - Investigator), March 1982 - August 1983	New Jersey Department of Environmental Protection	\$225,000
2	"Permeability and Capillary Moisture Testing of Soils", (Principal Investigator), 1984	United States Testing Company, Hoboken, New Jersey	\$6,811
3	"Experimental and Mathematical Investigations on the Effects of Flow and Mass Transport of Hazardous Liquids Through Soils", (Principal Investigator), November 1984 - October 1987	NSF Industry/University Cooperative Center for Research in Hazardous and Toxic Substances	\$100,000
	"Laboratory Testing of Artificial/Alternative Soils", (Co Principal Investigator), November 1984 - October 1985	Public Service Electric and Gas	\$32,610
5	"Evaluation of BAT Groundwater Monitoring System", (Principal Investigator), September 1985 - August 1986	BAT Envitech	Equipment Grant
6	"North Arlington Parkland Feasibility Study", (Co Investigator), 1985	Rocco Enterprises	\$17,000
7	"Assessment of Soil Conditions at Senior Citizen Housing Project", (Co-Principal Investigator), 1986	Secaucus Housing Authority, Secaucus, New Jersey	\$11,000
8	"Soil Decontamination by Electro-Osmotic Applications", (Principal Investigator), 1987	NSF Industry/University Ctr. for Res. in Hazardous and Toxic Substances	\$20,000
9	"Field and Mathematical Modeling Studies for Critical Instream Concentration Determinations", (Co-Principal Investigator), 1988	IT Corporation, Edison NJ	\$40,000
10	"Modeling for Evaluation of the Impact of Contaminated Soil on Groundwater", (Principal Investigator), 1989	New Jersey Department of Environmental Protection	\$42,000
11	"Investigation of Flow and Recovery of LNAPLs in Partially and Fully Saturated Soils", (Principal Investigator), 1989 - 1991	Hazardous Substance Management Research Center	\$225,000
12	"Review and Evaluation of Packaged Treatment Facilities and Disposal Fields (Co-Principal Investigator), 1989	R.C. Bogart Assoc., Flemington, New Jersey	\$8,300
13	"Alternative Treatment Process of Mixed Wastes" (Co-Principal Investigator), 1990	Jacobs Engineering Group, Mountainside, New Jersey	\$42,000

14	"Fresh Kills Landfill Leachate Mitigation System" (Co-Investigator), 1990 - 1991	IT Corporation, Edison, N.J.	\$150,317
15	"Investigation of Vibrofloatation as an In-Situ Decontamination Technique", (Co-Principal Investigator), 1990	EPA Northeastern Hazardous Substance Center	\$45,000
16	"Impact of Residential Septics on Groundwater Quality", (Principal Investigator), 1991	New Jersey Department of Environmental Protection	\$8,000
17	"Technical and Policy Support to the Army Environmental Policy Institute", (Principal Manager), June 1991	US Army Indefinite Delivery Contract	\$150,000
18	"Evaluation of the Impact of Contaminated Soil on Groundwater", (Co-Investigator), November 1991 - December 1992	New Jersey Department of Environmental Protection	\$42,372
19	"Experimental Study to Evaluate Different Commercially Available Surfactants to be Used for Removal of D-NAPLs from Sandy Soils", (Co-Principal Investigator) March 1992 - October 1992	Whitman Companies, Inc	\$10,000
20	"Remediating the NAPL Problem: A Critical Review of Current Treatment Technologies", (Principal Investigator), July 1992 - June 1993	Hazardous Substance Management Research Center	\$75,000
21	"Stabilization and Reuse of Heavy Metal Contaminated Soil by Means of Quicklime-Sulfate Salt Treatment", (Project Manager), September 1992 - February 1994	Department of Energy	\$833,203
22	"Demilitarization of AHH Using Biological Treatment", (Project Manager), September 1992 - December 1992	U.S. Army CERL	\$79,800
23	"Modeling of Nitrocellulose Fines and Biodegradation", (Project Manager), September 1992 - December 1992	-U.S. Army CERL	\$24,886
24	"Experimental and Analytical Studies of Leaching of Pentachlorophenol (PCP) from Treated Wood in Soils", (Principal Investigator), September 1992 - December 1993	Hazardous Substance Management Research Center	\$495,000
25	"A Study of the Effects of Chemical Spills on Soil Hydraulic Conductivity", (Co-Principal Investigator), September 1992 - January 1993	Public Service Electric and Gas	\$12,000
26	"Evaluation of Emerging Technology Applications for the U.S. Army", (Co-Principal Investigator), November 1992 - November 1993	Army Environmental Policy Institute (AEPI)	\$44,632
27	"A Study of the Effects of Chemical Spills in Soil Hydraulic Conductivity", (Principal Investigator), September 1992 - January 1993	Public Service Electric & Gas	\$12,000
28	"Soil Washing Treatability Study", (Co-Principal Investigator), January 1993	Dames & Moore	\$24,800

29	"Analytical Equipment Grant", PI, September 1993	US Air Force	\$448,773
30	"Evaluation of the Impact of Contaminated Soil on Groundwater", (Co-Principal Investigator), November 1993 - September 1994	New Jersey Department of Environmental Protection	\$70,619
31	"Investigation of TBA and Carbon Tetrachloride Biodegradability", (Co-Principal Investigator), April 1994 - November 1994	AQUALON Inc.,	\$31,500
32	"Trench Bio-Sparge: An In-Situ Groundwater Treatment Technology", (Co-Principal Investigator), February 1994 - July 1995	Hazardous Substance Management Research Center	\$103,000
33	"Modeling the Impact of Low Solubility Organics on Groundwater Quality", (Co-Principal Investigator), September 1994 - August 1995	New Jersey Department of Environmental Protection	\$80,000
34	to Research in Groundwater Pollution", (Principal Investigator), 1994 - 1997	Exxon Education Foundation	\$30,000
35	"Trench Bio-Sparge: An In-Situ Groundwater Treatment Technology", (Co-Principal Investigator), February 1995 - July 1996	Hazardous Substance Management Research Center	\$68,000
36	"Dredged Material Decontamination Technology Demonstration", (Principal Investigator), June 1995 - June 1996	Brookhaven National Laboratories	\$100,000
37	"Modeling the Impact of Low Solubility Organics on Groundwater Quality", (Co-Principal Investigator), September 1995 - August 1996	New Jersey Department of Environmental Protection	\$81,000
38	"Trench Bio-Sparge: An In-Situ Groundwater Treatment Technology", (Co-Principal Investigator), February 1996 - July 1997	Hazardous Substance Management Research Center	\$70,000
39	"Center for Product Lifecycle Management Building Funds", (Co-Director), 1996 - 1997	US Department of Commerce - Economic Development Authority	\$1,600,000
40	"Center for Bioregenerative Life Support Systems" (with Rutgers University total grant \$6,000,000), (Associate Director & Co-Principal Investigator), May 1996 - May 2001	NASA	\$1,000,000
41	"Energy and Environmental Assessment of Plastics Processing Industry", (Co-Principal Investigator), September 1996 - June 1997	US Department of Energy	\$150,000
42	"Technical Support for Grand Street Mercury Contamination, Hoboken, New Jersey", (Principal Investigator), September 1996 - June 1997	Hazardous Substance Management Research Center	\$25,000
43	"New Jersey Eco Complex Research Facility Funds" (with Rutgers University), (Associate Director) Total Grant \$5,000,000, September 1996 - August 1998	New Jersey Commission of Higher Education	

44	"Biodegradation of Organics in Dredged Sediments", (Co-Principal Investigator), October 1996 - February 1997	National Utility Investors	\$30,000
45	"Graduate Student Scholarships", (Principal Investigator), 1996 - 1998	Hazardous Substance Management Research Center	\$124,000
46	"Evaluation of an Indoor Air Cleaner", (Principal Investigator), 1997	SUNBEAM Co., Boca Raton, Florida	\$25,000
47	"Field Demonstration of In-Situ Bioremediation Technology for Clean-up of Petroleum Hydrocarbon Contaminated Soils at Auto Salvage Yards", (Co Principal Investigator), 1998	New Jersey Department of Environmental Protection / Hazardous Substance Management Research Center	\$68,000
48	"Evaluation of Leaching Tests of Heavy Metals Contaminated Soils Matrices Treated by Solidification/Stabilization Technologies", (Co-Principal Investigator), 1998	New Jersey Department of Environmental Protection / Hazardous Substance Management Research Center	\$178,000
49	"Properties of Cement Stabilized Harbor Sediments", (Co-Principal Investigator), 1998	New York / New Jersey Port Authority	\$117,000
50	"Investigation of Ambient Pressure, Non-Thermal Diffuse Plasmas for Destruction of Airborne Environmental Contaminants in ALS", (Principal Investigator), 1998	NASA / HEADS	\$437,051
51	"Iron Powder Treatment of Contaminated Sediments" (Co-Principal Investigator), 1998	New Jersey Department of Environmental Protection	\$110,000
52	"Field Pilot Scale Demonstration of Trench-Biosparge", (Co-Principal Investigator), 1998	Hazardous Substance Management Research Center	\$52,500
53	"The Use of Iron Fillings for Soil Remediation", (Principal Investigator), 1998 - 1999	NJCST (with ACUTECH)	\$150,000
54	"Grand Street Mercury Problem", (Principal Investigator), 1998-2000	Hazardous Substance Management Research Center	\$150,000
55	"Research in Groundwater Pollution", (Principal Investigator), 1998	Exxon Education Foundation	\$30,000
56	"Tributary Monitoring and Source Track-Down for Trace Organics and Metals", (Principal Investigator), 1998 - 2001	New Jersey Department of Environmental Protection	\$1,300,000
57	"Monitoring of PCB air Emissions in Sites Receiving Stabilized Harbor Sediment" , (Principal Investigator), 1999- 2002	NJ Marine Sciences Consortium	\$320,700

58	"Investigation of Novel Capillary Non-Thermal Ambient Pressure Plasmas for Cleaning Aluminum Surfaces", (Lead Principal Investigator), 2000 - 2003	NSF GOLI Program	\$368,693
59	"Technology Development and Demonstration for Firing Range Remediation , (Program Manager and Co-Principal Investigator), 2000 - 2003	TACOM / ARDEC, US Army	\$4,500,000
60	"Investigation of Fate, Transport and Toxicity of Tungsten Alloys Utilized in Munitions Applications in Soil Environments", (Program Manager and Co-Principal Investigator), 2001 - 2003	TACOM / ARDEC, US Army	\$1,049,960
61	"Technology to Remove Heavy Metal Contaminants from Drinking and Waste-Water", (Co-Principal Investigator), 2001 - 2002	NJCST	\$35,000
62	"Treatment and Removal of Arsenic from a Contaminated Site in Hopewell, New Jersey", (Co-Principal Investigator), 2001 - 2002	New Jersey Department of Environmental Protection	\$20,000
63	"Range Management and Remediation Technology Assessment, Development and Demonstration at Fort Irwin, California", (Program Manager and Co-Principal Investigator), 2001 - 2002	TACOM / ARDEC, US Army	\$615,780
64	"Development of a Soil Washing Technology Research Initiative at Picatinny Arsenal", (Program Manager and Co-Principal Investigator), 2001 - 2003	TACOM / ARDEC, US Army	\$540,673
65	"In-Situ Remediation of Arsenic in Groundwater by Metallic Iron", (Co-Principal Investigator), 2001 - 2003	New Jersey Department of Environmental Protection	\$158,651
66	"Investigation of Fate, Transport, Biodegradation and Potential Toxicity of CL-20 Environmental Systems", (Program Manager and Co-Principal Investigator), 2001 -2004	TACOM / ARDEC, US Army	\$964,844
67	"Range Management and Remediation Technology Assessment of Naturally Occurring Heavy Metal Contaminant Removal from Groundwater", (Program Manager and Co-Principal Investigator), 2001 - 2004	TACOM / ARDEC, US Army	\$1,450,066
68	"Filtration Testing for the Stevens Adsorptive Media MetSorb for Removal of Arsenic", (Co-Principal Investigator), 2002	New Jersey Department of Environmental Protection	\$20,000
69	"Use of Capillary Non-Thermal Ambient Pressure Plasma in Decontamination of Water Recovered from Vehicle Exhaust", (Co-Principal Investigator), 2002 - 2005	DARPA	\$800,000
70	"Molybdenum Fate and Transport in the Environment", (Program Manager and Co-Principal Investigator), 2002 - 2003	TACOM / ARDEC, USArmy	\$250,000

71	"Evaluation and Treatment of Runoff from Firing Ranges" (Program Manager and Co-Principal Investigator), 2002 - 2003	TACOM / ARDEC,	\$650,000
72	Field Evaluation of Technologies to Treat Groundwater Contaminated with Depleted Uranium-STARMET (Program Manager and Co-Principal Investigator), 2002-2003	TACOM / ARDEC, USArmy	\$650,000
73	"Evaluation of the Environmental Fate and Transport of PAX-21"(Program Manager and Co-Principal Investigator), 2002 - 2003	TACOM / ARDEC, USArmy	\$250,000
74	Technology for Treatment of RDX Contaminated Water (Program Manager and Co-Principal Investigator), 2002 - 2003	TACOM / ARDEC, USArmy	\$200,000

## IX. CONSULTING EXPERIENCE

Dr. Korfiatis has served as a consultant to numerous organizations in the areas of water resources, geohydrology, groundwater contamination, environmental and geotechnical engineering including:

S & D Engineering Services, Inc.  
Metuchen, N.J.

Greentree Compliance, Inc.  
Trenton, N.J.

R.C. Bogart Associates  
Flemington, N.J.

Melick-Tully and Associates  
South Bound Brook, N.J.

A.S.C. Co.  
Paterson, N.J.

U.S. Testing Co., Inc  
Hoboken, N.J.

K. Hovnanian Co.  
Red Bank, N.J.

New Jersey Department of Civil Service  
Trenton, N.J.

Secaucus Housing Authority  
Secaucus, N.J.

Gottesman, Wolgel, Smith and Secunda

New York, N.Y.

Leib, Kraus, Grispin and Roth  
Scotch Plains, N .J.

Lian, Geringer and Dolan  
New York, N.Y.

Village of Dobbs Ferry  
Dobbs Ferry, N.Y.

Soriano, Henkel, Gaydos, Marinells, Mathew and Biehl  
Belleville, N.J.

IT Corporation  
Edison, N.J.

Rahway Valley Sewage Authority  
Rahway, N.J.

Chubb Insurance Co.  
New York, New York

P.M.K. Ferris and Perricone, Inc.  
Union, N.J.

New Jersey Department of Environmental Protection  
Trenton, New Jersey

Township of Manchester  
Manchester, N .J.

Schoor DePalma & Canger, Inc.  
Manalapan, N.J.

Public Service Electric and Gas  
Newark, N.J.

Aqualon, Inc.  
Parlin, N.J.

Matrix Environmental  
Florham Park, N.J.

Remedial Technology and Engineering Inc.  
Union, N.J.

Sealy Inc.  
Cleveland, OH

## X. SELECTED PUBLICATIONS

### Books/Book Chapters/Editorships

Derucher K.N. and Korfiatis G.P., **Materials for Civil and Highway Engineers**, Prentice Hall, 2nd Edition, October 1987.

Korfiatis G.P. and Schuring J.R., "**Bearing Capacity of Shallow and Deep Foundations**" Chapter in Handbook of Civil Engineering, Technomic Publishing Co., P.N. Cherernisinoff and S.L. Chen, Editors, 1988

Korfiatis, G.P., Dermatas, D, and A.C. Demetracopoulos, Editors, "**Restoration and Protection of the Environment in the '90s**" International Conference Proceedings, Annual Krikos Conference, August 19-21, 1992, Thessaloniki, Greece

Korfiatis, G.P., and Cheremisinoff, P.N., "**Environmental Technology and Engineering**", Chapter 5 in Environmental Strategies Handbook, Rao V. Kolluru, editor, McGraw-Hill, Inc., October 1993, pp. 119-163.

Derucher K.N. and Korfiatis G.P., S. Ezeldin, **Materials for Civil and Highway Engineers**, Prentice Hall, 3rd Edition, October 1993

Demetracopoulos A.C., Hadjitheodorou C.D., Korfiatis G.P., Editors, "**Restoration and Protection of the Environment II**" International Conference Proceedings, University of Patras, Greece. August 24-26 1994, 474p.

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## XI. PATENTS

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## **XII . COMPANIES FOUNDED**

Dr. Korfiatis has been a Co-Founder of two Stevens Enterprise Companies. Both companies have introduced technology in the market place and have been acquired by Fortune 500 companies:

**PlasmaSol Corp.** ([www.plasmasol.com](http://www.plasmasol.com)) PlasmaSol Corporation was founded in 1999. The mission of PlasmaSol was to increase the market value of a break-through in plasma generation technique invented at Stevens. The original founders included three faculty members and four graduate students all from Stevens. The business plan called for development of the technology, known as Capillary Discharge Non-Thermal Plasma (CD-NTP) for uses in the environmental and medical sterilization fields. PlasmaSol raised more than \$2M in angel investments and obtained government grants from DARPA, NSF, USArmy and other Federal Agencies during the technology development phase. The company has won the Thomas Alva Edison Award, the Most Innovative Product Award and Environmental Company of the Year Award. PlasmaSol was acquired on December 2005 by Stryker Corporation, a leading manufacturer of orthopedic implants who is introducing the Technology to the medical device sterilization field.

**HydroGlobe LLC.** ([www.hydroglobe.com](http://www.hydroglobe.com)). HydroGlobe Corp. was founded in 2001 by three Stevens faculty members to advance a suite of technologies developed at the Center for Environmental Engineering. The company mission was to bring to the marketplace water and wastewater treatment technology breakthroughs that offer societal benefits and economic advantage. A unique partnership between academia and the private sector, HydroGlobe LLC, was nurtured at the Center for Environmental Engineering of Stevens Institute of Technology. Stevens research faculty and students have developed the core technology, which is exclusively licensed to HydroGlobe. Guided by a strong management team, and surrounded by superb technical talent and state-of-the-art facilities, HydroGlobe exemplified the Technogenesis environment nurtured at Stevens. In December 2004, HydroGlobe was wholly acquired by Graver Technologies, LLC, a leading worldwide supplier of filtration, separation, and purification products, and a member of the Water Group of the Marmon Companies, a privately held international corporation comprised of more than 80 companies.

## **XIII. SELECTED CONFERENCE/SEMINAR PRESENTATIONS**

Dr. Korfiatis has made numerous presentations in professional meetings, conferences, seminars and a variety of other functions. Selected presentations include:

1. "Turbulent Diffusion Investigations of Submerged Water Jets by Hot Film Anemometer and Photographic Techniques", AGU Fall Conference, San Francisco, December 1978.

2. "Conceptualization of Simulation Modeling of Sewage and Heat Waste In Stratified Receiving Water Bodies", International Symposium on Application of Fluid Mechanics and Heat Transfer to Energy and Environmental Problems, Patras, Greece, June 1981.
3. "Turbulent Diffusion Investigations of Submerged Water by Hot Film Anemometry and Photographic Techniques", International Symposium on Application of Fluid Mechanics and Heat Transfer to Energy and Environmental Problems, Patras, Greece, June 1981.
4. "Field Testing of Short Pile Systems for Floor Support" Conference on In-Situ Soils and Rock Reinforcement, Paris, France, October 1984.
5. "Parameters Affecting Hydraulic Behavior of Landfill Clay Liners" HAZPRO '85, Baltimore, Maryland, May 16-17, 1985.
6. "Laboratory Testing for Permeability and Dispersivity of Cohesive Soils". International Symposium on Environmental Geotechnology, Lehigh, PA., April 1986. (Invited)
7. "Attenuation of Organic Chemicals by Filters Used in Groundwater Sampling Systems", NWWA The Third Annual Eastern Groundwater Regional Conference, Springfield, Mass., July 28-30, 1986.
8. "Experimental - Mathematical Investigations of the Hydraulics of Landfill Collection Systems", Third International Conference on Computational Methods and Experimental Measurements, Porto Carras, Greece, September 1986.
9. "Migration of Solute Contaminants in the Saturated/Unsaturated Subsurface Environment" AWRA International Conference on Water and Human Health, Atlanta, GA., November 9-14, 1986.
10. "Problems Associated with Calibration and Verification of Unsaturated Flow and Mass Transport Models" Int. Conference on Reliability and Robustness of Engineering Software, Como, Italy, Sept. 1987. (Invited)
11. "The Effective Use of Technical Groups" ASCE, Zone I Management Conference, Hartford, Connecticut, January 19-21, 1987. (Invited)
12. "Groundwater Environmental Concerns in New Jersey, USA", International Symposium on Water for the Future, Rome, Italy, April 1987. (Invited)
13. "Permeability of Compacted Clay Liners in Laboratory Scale Models", ASCE-GT Specialty Conference, Geotechnical Practice for Waste Disposal, Ann Arbor, MI, June 1987.
14. Workshop on Permeability of Compacted Clays, Workshop Leader, ASCE - GT Specialty Conference Geotechnical Practice for Waste Disposal, Ann Arbor, Michigan June 15-17, 1987.
15. "Mathematical and Laboratory Modeling of Transport in Partially Saturated Soils", ASCE National Conference on Hydraulic Engineering, Williamsburg, VA, August 1987.
16. "Permeability of Fine Grain Compacted Soils with Applications in Environmental Geotechnology." First Panhellenic Conference in Soil Mechanics, Athens, Greece, Feb. 3-5, 1988. (Invited)

17. "Some Problems Associated with the Development and Application of Unsaturated Flow and Solute Transport Models" Fourth Annual Symposium, Society of Environmental Toxicology and Chemistry, May 12-13, 1988, Rutgers University, New Brunswick NJ. (Invited)
18. "Integrated Approaches to Soil and Groundwater Abatement and Remediation, SISSIPPA, Lisbon, Portugal, June 1989. (Invited)
19. "Remediation of NAPL Contaminated Sites", RCRA Corrective Action Seminar, Dames and Moore, Newark, N.J., March 7, 1990. (Invited)
20. "Hydraulics of Clay Liners" Clay Liner Technology Seminar, Stevens Center for Environmental Studies, Stevens, Hoboken, N.J., April 27, 1990.
21. "Transport and Fate of Contaminant in the Subsurface Seminar", Stevens Center for Environmental Studies, Hoboken, N.J., March 30, 1990.
22. "A Model for Development of Soil Clean-up Standards", Aquifer Reclamation and Source Control Conference; USEPA Northeast Hazardous Substance Research Center, Woodbridge, N.J., Nov. 1990. (Invited)
23. "Model for Evaluation of the Impact of Contaminated Soil on Groundwater", How Clean is Clean, Air and Waste Management Association Conference, Boston, Massachusetts, Nov. 6-9, 1990.
24. "Prediction of LNAPL Residual Saturation Based on Grain Size Distribution," EPA Regions I & II Conference on Aquifer Reclamation & Source Control, Boxborough, Massachusetts, June 1991.
25. "Integrated Vibrorecovery Process (IVP) for Remediation of NAPL-Contaminated Sites", National R&D Conference on the Control of Hazardous Materials, San Francisco, California, Feb. 1992. (Invited)
26. "A Numerical Model of 2-Dimensional Transient Transport of Reactive Solutes in Variably Saturated Soils" Proc. HYDROCOPIP '92, Vituki, Budapest, May, 1992. (Invited)
27. "Fate and Transport of Toluene in a Vadose Zone Column Apparatus", poster presentation at Air & Waste Management Association Mid-Atlantic States Section, Conference, "Air & Waste Strategies and Solutions", Atlantic City, New Jersey, September 30, 1992. (Invited)
28. "The Treatment of Contaminated Soil and Groundwater: A Concise Overview", New Jersey State Bar Association Environmental Law Forum, Cape May, New Jersey, June 13, 1992. (Invited)
29. "Emerging Technologies for Soil Treatment", Ekenfelder, Inc., Silver Anniversary Seminar, Mahwah, New Jersey, April 22, 1992. (Invited)
30. "Landfill Design and Construction", Aristotelian University of -Thessaloniki, Greece, October 1992. (Invited)
31. "Solid Waste Disposal Practices in U.S.", Association of Greek Chemical Engineers,

Thessaloniki, Greece, October 1992. (Invited)

32. "A Critical Review of Remedial Technologies for Contaminated Soils", KRIKOS Conference, Thessaloniki, Greece, August 1992.

33. "Welcome Address - 1992 Symposium on Water Supply and Drainage for Buildings, Washington, D.C., September 21st-24th, 1992. (Invited)

34. "Retardation of Contaminant Transport in Soils", 2nd Greek National Conference in Geotechnical Engineering, October 1992. (Invited)

35. "A Model for Derivation of Soil Clean-up Levels", poster presentation, American Geophysical Union Fall Meeting, San Francisco, California, December 7-11, 1992

36. "Vitrification of Municipal Solid Waste Ash", Union County Utilities Authority Symposium on MSW Ash Reuse, October 25, 1993. (Invited)

37. "Surfactant Flushing of a DNAPL in Soil Columns" Proc. of Air & Waste Management Association Mid-Atlantic States Section Conference, "Air and Waste Strategies and Solutions", Atlantic City, New Jersey, September 29-October 2, 1992. (Invited)

38. "Life Cycle Management", New Jersey Water Pollution Control Association Seminar, Somerset, New Jersey, December 1, 1993. (Invited)

39. "Ex-Situ Remedial Technologies for NAPL Contaminated Soils" EPA Northeast Hazardous Substance Research Symposium, Stevens Institute of Technology, Hoboken N.J., March 14-15, 1994

40. "Ex-Situ Remedial Technologies for NAPL Contaminated Soils" EPA Northeast Hazardous Substance Research Symposium, Boston Mass., April 4-5, 1994. (Invited)

41. "Passive Groundwater Treatment", Restoration and Protection of the Environment 11, International Conference, University of Patras, Greece, August 24-26, 1994

42. "Selection and Use of Surfactants for NAPL Flushing" American Chemical Society Special Symposium on Emerging Technologies in Hazardous Waste Management, Atlanta GA, September 19, 1994

43. "NAPL Behavior, Investigation and Remediation", UST Workshop, EPA Region 11, San Juan, Puerto Rico, September 26, 1994. (Invited)

44. "Plume Capture and Treatment Technologies for NAPL Contaminated Groundwater" New Jersey Environmental Exposition, DNAPL Workshop, October 19, 1994. (Invited)

45. "NAPL Contaminated Site Remedial Technologies" Central New York Association of Professional Geologists Short Course, Syracuse NY, November 2, 1994. (Invited)

46. "NAPL Behavior, Investigation and Remediation", UST Workshop, EPA Region 11, NJDEPE, Trenton NJ, November 9, 1994. (Invited)

47. "NAPL Behavior, Investigation and Remediation", UST Workshop, EPA Region 11, NYDEC, Albany NY, November 19, 1994. (Invited)

48. "Site Remediation Technologies: A Historical Perspective" Applications and Collaborations: A Series of National Discussions, Stevens Institute of Technology, West Palm Beach, FL, February 1, 1995. (Invited)
49. "Potential Groundwater Pollution from Chemically Treated Wood", WATER POLLUTION III: Modeling, Measuring and Prediction, Porto Carras, Greece, April 24-26, 1995
50. "Beneficial Reuse of Closed Landfills", National Conference of State Legislatures, Milwaukee, Wisconsin, July 18, 1995. (Invited)
51. "Environmental Applications of Plasmas", International Conference on Phenomena in Ionized Gases, Stevens Institute of Technology, Hoboken, N.J., July 31, 1995 (Invited)
52. "Environmental Technologies Panel", Environment 2000, Stevens Institute of Technology, October 24, 1995. (Invited)
53. "Trench Bio-Sparge: an In Situ Groundwater Treatment Technology", NHSRC Annual Meeting, MIT, Boston, Mass., November 1, 1995. (Invited)
54. "Dredged Material Management Alternatives" Dredging Conference and Trade Show, Maritime Association of The Port of NY/NJ, New York City, Nov. 30, 1995. (Invited)
55. "Design of Plume Interception/Treatment Technologies for Contaminated Aquifers" Department of Civil and Environmental Engineering, City College, March 12 1996. (Invited)
56. "Bio-Wall Design: Geohydrologic Considerations", 3rd International Symposium on Environmental Geotechnology, San Diego CA., June 9-12 1996.
57. "The Academic Connection: Research Initiatives Technology Evaluation and Demonstration Projects", The Business of Dredging Conference, New Jersey Department of Commerce and Economic Development, Somerset, New Jersey, June 20-21, 1996. (Invited)
58. "Intrinsic Remediation", Protection and Restoration of the Environment 111, Technical University of Crete, Chania Greece, August 26-29, 1996.
59. "Environmental Technology", The Netherlands-New Jersey: A Transatlantic Business Relationship, September 24 1996, Rutgers University, Newark N.J. (Invited)
60. "Plume Interception/Treatment Technologies: An Overview", ASCE Conference on Non-Aqueous Phase Liquids in the Subsurface Environment: Assessment and Remediation, Nov 12-17 1996, Washington D.C. (Invited)
61. "Beneficial Use of Dredged Sediment in Transportation" Third Annual Dredging Conference, November 20, 1996, Maritime Association of The Port of NY/NJ, New York City. (Invited)
62. "Contaminant Plume Interception Technologies" 50th Anniversary Guest Lecture, Chosun University, November 26, 1996, South Korea. (Invited)
63. "Natural Attenuation of Petroleum Hydrocarbons in Aquifers" 50th Anniversary Guest Lecture, Chosun University, November 27, 1996, Kwangju, South Korea. (Invited)

64. "Latest Developments in Groundwater Remediation" Kwangju City Environmental Research Institute, November 27, 1996, Kwangju, South Korea. (Invited)
65. "Treatability Studies for Soil Remediation", International Conference of the Korea Technological Society of Water and Waste Water Treatment, November 29, 1996, Pusan, S. Korea. (Invited)
66. "Uses of Carbon Dioxide from Municipal Solid Waste Landfills' Landfill Gas Utilization Conference, December 9, 1996, Somerset, NJ. (Invited)
67. "Hydrologic Modeling of Funnel and Gate Plume Treatment Systems" Remediation Technologies Development Forum Meeting, December 12, 1996, Denver, CO. (Invited)
68. "GW Remediation in Biowalls" NJ Marine Science Consortium, May 1997. (Invited)
69. "NJ-NSCORT Research Initiatives" NASA ALS Requirements Meeting, Houston TX, 1997
70. "Nutrient Recovery from Plant Material" NASA ALS Symposium Tuskegee University. 1998. (Invited)
71. "Trench Interception Technology for Groundwater Remediation", Aristotle University of Thessaloniki, Greece, May 7, 1999. (Invited)
72. "Volatilization of PCB's from Dredged Sediment", Aristotle University of Thessaloniki, Greece, May 8, 1999. (Invited)
73. "Treatment Technologies for Arsenic Removal", International Symposium on Arsenic, Dhaka, Bangladesh, September 26, 1999. (Organizer)
74. "Destruction of VOCs in a Non-Thermal Plasma Reactor". Poster presented at the LSBS Conference Baltimore Maryland, August, 2000.
75. "Destruction of VOCs in a Non-Thermal Plasma Reactor", Proceedings of the International Conference Protection and Restoration of the Environment V, Thasos 2000
76. "Organic carbon and nitrogen removals in immobilized cell packed bed bioreactors". Presented at the Fourth International Life Support and Biosphere Science Conference, Baltimore Maryland, August 2000.
77. "Air Revitalization Systems in Space" Bio-Astronautics Investigator's Workshop, January 19, 2001, Galveston Texas. (Invited)
78. "The Role of the Modern University in Technology Transfer" NSF Workshop, Jan 2002, San Juan, Puerto Rico. (Invited)
79. "Water Harvesting System Development" DARPA Workshop on Water Harvesting, January 2002, Los Angeles, Ca.
80. "Rangesafe Program Update" NDIA Technical Symposium, April 10, 2002, Rockaway NJ (Invited)
81. "Water: Past and Future" Protection and Restoration of the Environment VI, Invited Plenary Keynote, July 2, 2002, Skiathos, Greece

#### XIV. SELECTED RESEARCH REPORTS

Dr. Korfiatis has authored in excess of 100 research reports. Representative reports include:

1. Study of the Behavior of Hollow Concrete Beams Under Flexure, Reinforced Concrete Project Report. Department of Civil and Environmental Engineering, Rutgers University, 1978.
2. Mathematical Modeling of Leachate Generation and Transport in Solid Waste Landfill: Theory, (with Demetracopoulos A.C., Erdogan H. and Sehayek L.), Rutgers University, Report prepared for New Jersey Department of Environmental Protection under Contract No. 27-5926, July 1982.
3. Review and Selection of Geohydrologic Models for Groundwater Contamination, (with Demetracopoulos A.C., Erdogan H. and Sehayek L.) , Rutgers University, Report prepared for New Jersey Department of Environmental Protection under Contract No. 27-5926, September 1982.
4. Mathematical Modeling of Leachate Generation and Transport in Solid Waste Landfills: Numerical Schemes, (with Demetracopoulos A.C., Erdogan H. and Sehayek L.) Rutgers University, Report prepared for New Jersey Department of Environmental Protection under Contract No. 27-5926, November 1982.
5. Maximum Dry Density - Grain Size Distribution Relations, Stevens Institute of Technology, Department of Civil and Ocean Engineering, Soil Mechanics Lab Report SML-01-84, 1984.
6. A Geotechnical Study of Fly Ash-Kiln Dust Mixtures (with K.N. Derucher and D. Lekmine) Final Report Submitted to Public Service Electric and Gas Co. 1986.
7. Experimental and Mathematical Investigations on the Effects of Flow and Mass Transport of Hazardous Liquids Through Soils, Report No. 1, (with Demetracopoulos A.C. and Schuring J.R.), submitted to NSF Industry - University Cooperative Center for Research in Hazardous and Toxic Substances, October 1987.
8. Experimental and Mathematical Investigations on the Effects of Flow and Mass Transport of Hazardous Liquids Through Soils, Report No. 2, (with Demetracopoulos A.C. and Schuring J.R.), submitted to NSF Industry - University Cooperative Center for Research in Hazardous and Toxic Substance, September 1989.
9. Soil Decontamination by Electro-Osmotic Applications, Final Report - Submitted to Hazardous Substance Management Research Center, 1990.
10. Model for Evaluation of the Impact of Contaminated Soil on Groundwater - Submitted to New Jersey Department of Environmental Protection, 1990.
11. Model for Evaluation of the Impact of Contaminated Soil on Groundwater, Phase I Final Report submitted to New Jersey Environmental Protection and Energy, September 1991.

12. Preliminary Screening of Surfactants for In-Situ DNAPL Flushing (Phase I), submitted to The Whitman Companies, Inc., May 4, 1992.
13. Model for Evaluation of the Impact of Contaminated Soil on Groundwater, Phase I1 Final Report submitted to New Jersey Environmental; Protection and Energy, August 1992.
14. Flow-Through Column Study of Surfactants for In-Situ DNAPL Flushing (Phase 111, Submitted to The Whitman Companies Inc., September 21, 1992.
15. Hydraulic Conductivity and Oil Retention Capacity Determination for Salem Plant Soils Submitted to Public Service Electric & Gas Company, December 1992.
16. Fate and Transport Modeling and Experimental Adsorption Studies of Pentachlorophenol [PCP] in Soils - Submitted to HSMRC, New Jersey Institute of Technology, December 1992.
17. Anaerobic Degradability Studies of Pentachlorophenol (PCP) in Soils - Submitted to HSMRC, New Jersey Institute of Technology, December 1993.
18. Review of Site Remediation Technologies - Submitted to the Army Environmental Policy Institute, February 1994.
19. Vitrification of Municipal Solid Waste Incinerator Fly Ash: A Technology Assessment, Submitted to the Port Authority of New York and New Jersey, October 25, 1994.
20. Trench Bio-Sparge: an In Situ Groundwater Treatment Technology, Phase I, Submitted to HSMRC, New Jersey Institute of Technology, December 1994.
21. Trench Bio-Sparge: an In Situ Groundwater Treatment Technology, Phase 11, Submitted to HSMRC, New Jersey Institute of Technology, December 1995.
22. Trench Bio-Sparge: an In Situ Groundwater Treatment Technology, Phase 111, Submitted to HSMRC, New Jersey Institute of Technology, December 1996.
23. Nutrient Recovery from Inedible Plant Material, Submitted to NASA-NJNCORT, February 1997
24. Biological Grey Water Treatment for Long Duration Space Missions, Submitted to NASANSCORT, February 1988
25. Use of Zero-Valent Iron Powder for the Treatment of Contaminated Dredge Material and Marine Sediments, Submitted to NJ Commission on Science and Technology, April 1999
26. Investigation of Large Volume, Ambient Pressure, Non-Thermal Diffuse Plasmas for Destruction of Airborne Environmental Contaminants in Advanced Life Support Systems, Submitted to NASA, February 2000.
27. Range Management and Remediation Technology Assessment, Development and Demonstration, Submitted to TACOM/ARDEC, March 2001
28. Investigation of a Novel Capillary Non-Thermal Ambient-Pressure Plasma for the Cleaning of Aluminum Surfaces, Submitted to NSF, May 2001

29. Field Demonstration of In-Situ Bioremediation Technology for Clean-up of Petroleum Hydrocarbon Contaminated Soils at Scrap/Auto Salvage Yards, Submitted to NJDEP, April 2002