Science to Achieve Results (STAR) and other NCER Funded Research Projects

Selected Waste Topics:

Active Waste Management - Hazardous (1)
Active Waste Management - Municipal (2)
Remediation (3)
Bioremediation (4)
Groundwater Remediation/Treatment (5)
Incineration/Combustion (6)
Incineration/Monitoring (7)
Bioavailability (8)
Fate and Transport (9)
Contaminated Sediments (10)
Oil Spill (11)
Pollution Prevention (12)

Explore linked abstracts and results for this search at: http://www.epa.gov/ncerqa/search2

NCERQA Funded
Science to Achieve Results (STAR)
Research Projects:

Active Waste Management - Hazardous

NATIONAL CENTER FOR ENVIRONMENTAL RESEARCH

Office of Research and Development
U.S. Environmental Protection Agency

Tabular Query Results of NCER Program and Solicitation Information

37 Abstracts are listed

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Amount	Proposed Start Date
1	none	Thermochemical Treatment of Hazardous Wastes	GREAT PLAINS ROCKY MOUNTAIN HSRC	Walawender, Fan	none	January 1, 1991 - December 31, 2000
2	none	Computer-Aided Design and Control of Systems for Treatment of Hazardous Waste and Minimization of Waste Production	GREAT PLAINS ROCKY MOUNTAIN HSRC	Fan	none	January 1, 1991 - December 31, 2000

3	none	Development of hazardous waste treatment schemes using modular laboratory-scale reactors	GREAT LAKES AND MID-ATLANTIC HSRC	Hickey	none	January 1, 1991 - December 31, 2000
4	none	"Using Partners to Build Better Courses: Georgia Tech's Experience with Developing an Underground Storage Tank Course"	SOUTH AND SOUTHWESTERN HSRC	Huff, Tschirhart	none	January 1, 1991 - December 31, 2000
5	none	Removal of Heavy Metals from Hazardous Wastes by Protein Complexation for Their Ultimate Recovery and Reuse	GREAT PLAINS ROCKY MOUNTAIN HSRC	Ghosh	none	January 1, 1991 - December 31, 2000
6	none	Treatment Of Complex Mixtures	WESTERN REGION HSRC	Reinhard, Roberts	none	January 1, 1991 - December 31, 2000
7	none	Development of Electrochemical Processes for Improved Treatment of Lead Wastes	GREAT PLAINS ROCKY MOUNTAIN HSRC	O'Keefe, Cole, Watson	none	none

8	none	Biodetoxification of Hazardous Solid Wastes by Staged Anaerobic Fermentation Conducted at Separate Redox and pH Environments	Great Plains/Rocky Mountain HSRC	Ghosh	none	January 1, 1991 - December 31, 2000
9	104LUB7142	The Binding Chemistry and Leaching Mechanisms of Advanced Solidification/Stabilization Systems for Hazardous Waste Management	Lamar University	David L Cocke	none	none
10	R82-0024	NMR for Diagnostic Testing of Solidified Hazardous Waste	Louisiana State University and A & M College	Frank K. Cartledge; Leslie G. Butler	$344,340	3 years
11	none	Modeling VOC Emissions from Hazardous Waste Sites	Stanford University (Supported by R2D2 Program)	Lynn M. Hildemann	none	none
12	none	Development, Characterization, and Evaluation of Adsorbent Materials for Waste Streams	GREAT PLAINS ROCKY MOUNTAIN HSRC	Viswanath, Kapila, Clevenger	none	January 1, 1991 - December 31, 2000
13	none	FASTCHEM Applications and Sensitivity Analysis (Supported by the Electric Power Research Institute)	WESTERN REGION HSRC	Kitanidis, Freyberg	none	January 1, 1991 - December 31, 2000

14	R825827	Promoting Proper Use of a Household Hazardous Waste Facility: A System Approach	University of Utah	Carol M. Werner	$128,211	October 1, 1997 - December 31, 1998
15	104 TAM0401	Use of Inorganic Ion Exchangers for Hazardous Waste Remediation	Texas A & M University	Abraham Clearfield, A. I. Bortun	none	none
16	104LUB0437, 104UTA0437	Laboratory and Field Scale Test Methodologies for Solidified/Stabilized Hazardous Waste	Lamar University	David L. Cocke	none	none
17	none	Superfund Sites and the Mineral Industries Methods	Chemical and Fuels Engineering, University of Utah	Dr. Donald A. Dahlstrom	none	none
18	none	Pollution Prevention Assessment of an Electrodeposition Coating and Pre-treatment System	University of Minnesota	P.L. Brezonik	none	none
19	none	Geosynthetic Clay Liners as Alternative Barrier Systems	Urban Waste Management & Research Center	Mysore Nataraj, Ph.D., P.E., Associate Professor, and Kenneth McManis, Ph.D., P.E., Professor, Civil and Environmental Engineering	none	none

20	none	Agglomeration of Granular and Fine Particulate Industrial Wastes	Michigan Technological University	S. K. Kawatra	none	none
21	none	Evaluation and Modeling of Subsurface Biobarrier Formation and Persistence	Montana State University; University of Wyoming	A.B. Cunningham; B.M. Chen	none	none
22	none	Landfill Design Specifications	Urban Waste Management & Research Center	W. Reid Lea, Ph.D., Assistant Professor, Kenneth McManis, Professor, Ph.D., P.E., Mysore Nataraj, Ph.D., P.E. Associate, Professor, Civil and Environmental Engineering	none	none
23	R825407	Partitioning Tracers for In-Situ Detection and Measurement of Nonaqueous Phase Liquids in Porous Media	University of Arizona	Mark Brusseau and N.T. Nelson	$246,339	November 1, 1996 - October 31, 1999

24	R82-2591	Fabrication and Evaluation of Fiber Optic Photoreactors for the Photocatalytic Degradation of Organic Contaminants and the Photoplating Stripping of Heavy Metals	University of Wisconsin. Madison	Marc Anderson	$366,240	3 years
25	R823388	Attenuation of Chromium in Alkaline Environments Chromium Substitution in Ettringites and C4AH12-Monosulfates	Oregon Graduate Institute	Carl D. Palmer	$176,630	October 1995 - September 1995
26	R826184	Remote Sampling Probe with Fast GC/MS Analysis: Subsurface Detection of Environmental Contaminants	Tufts University	Albert Robbat Jr., Alexander Gorshteyn, Zunovi Katayenko, Sigurdur Smarason	$305,234	February 16, 1998 - February 15, 2001
27	U91-5351	The Efficacy of Oxidative Coupling for Promoting In-Situ Immobilization of Phenolic Compounds in Contaminated Soil and Sediment Systems	University of Michigan, Environmental and Water Resources Engineering and Chemical Engineering	T. Michael Keinath II	34,000	9/8/98
28	104MSU0442	Ultrasonic Enhancement of the Removal of Heavy Metals	Mississippi State University	Dennis Truax, Krishnan Balasubramaniam	none	none

29	none	Biofilm Barriers for Waste Containment	University of Wyoming	J.P. Turner, L.E. Bulla, and Q.D. Skinner	none	none
30	104LSU0435	Sonochemical Treatment of Hazardous Organic Compounds II: Process Optimization and Pathway Studies	Louisianna State University	Thomas Junk, W. James Catallo	none	none
31	R827120	The Effect of Clay on DNAPL Behavior During Alcohol Flushing	University of Vermont	Nancy J. Hayden	$375,240	December 1, 1998 - November 11, 2001
32	R825409	Investigation of the Entrapment and Surfactant Enhanced Recovery of Nonaqueous Phase Liquids in Heterogeneous Sandy Media	University of Michigan; Georgia Institute of Technology; Auburn University	Linda M. Abriola, Kurt D. Pennell, and Jacob H. Dane	$449,938	November 1, 1996 - October 31, 1999
33	R825405	A Multi-Scale Investigation of Mass Transfer Limitations in Surfactant-Enhanced Aquifer Remediation	none	Alex Mayer and Gary A. Pope	$299,792	October 1, 1996 - October 31, 1999
34	none	Chelating Extraction of Heavy Metals from Contaminated Soils	University of Utah; University of Missouri	A.P. Hong and R.W. Okey; S.K. Banerji	none	none

35	none	Incorporation of Nickel in a Ceramic Matrix - A Method for Treatment and Disposal of Heavy Metal Containing Wastes	Stanford University	George Redden and James O. Leckie	none	none
36	094UHH2347	Concentrated Halide Extraction and Recovery of Lead from Soil	University of Houston	Dennis Clifford	none	none
37	none	Design and Development of an Innovative Industrial Scale Process to Economically Treat Waste Zinc Residues	University of Missouri	T.J. O'Keefe	none	none

Collections that were searched are:
Research Center Research Projects
Fellowship Research Projects
Grants Research Projects

Quick Help | Search Tips | More Search Options | Database Browser

Return to top of this document.

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NCER Funded

Small Business Innovation Research (SBIR) Research Projects:

Active Waste Management - Hazardous

NATIONAL CENTER FOR ENVIRONMENTAL RESEARCH

Office of Research and Development
U.S. Environmental Protection Agency

Tabular Query Results of NCER Program and Solicitation Information

48 Abstracts are listed

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Amount	Proposed Start Date
1	68D50101	Processing Spent Catalyst to Recover Metal Values and to Minimize or Eliminate Hazardous Waste	Chemical and Metal Industries, Inc.	Dr. David E. Hyatt	$65,000	September 1995 - March 1996
2	68D10072	Recovery of Liquid Hazardous Wastes from Carbon Adsorption Steam Regeneration Streams	Membrane Technology and Research, Inc.	J. G. Wijmans	$150,000	September 1991 - May 1993

3	68D50122	Processing of Spent Perfluoroayliodide Catalyst for Recovery of Antimony Trifluoride and iodine and Hazardous Waste Elimination	Chemical and Metal Industries, Inc.	Dr. David E. Hyatt	$220,000	September 1995 - July 1997
4	68D40050	An Experimental Approach for Developing an Antimony Pentafluoride Catalyst Recovery Method	Chemical and Metal Industries, Inc.	Dr. David E. Hyatt	$55,000	September 1994 - March 1995
5	68D50070	Novel Pervaporation System for Recovery of Organics from Hazardous Waste Streams	Bend Research, Inc.	Dr. Rod Ray	$65,000	September 1995 - March 1996
6	68D40056	A Chemical Process to Treat Spent Potliners and Produce Several Recyclable Commercially Valuable Products	Vortec Corporation	Dr. Paul J. Lucas	$54,878	September 1994 - March 1995
7	68D50098	Conversion of Hazardous Chromium Plating Sludge Into Aluminothermic Chromium Metal	Climax Research Services	Dr. Edward P. Whelan	$65,000	September 1995 - March 1996
8	68D60036	Innovative Process Technology to Recover Metal Values from Hazardous Wastes	Chemical & Metal Industries, Inc.	Dr. David E. Hyatt	$69,716	September 1996 - March 1997
9	68D60046	Processing Spent Tin Fluorination Catalysts to Recover Tin and Fluoride Values and to Minimize or Eliminate Hazardous Waste	Chemical & Metal Industries, Inc.	Dr. David E. Hyatt	$225,000	September 1996 - September 1998

10	68D30107	An Innovative Technology for the Destruction of Chlorinated Compounds in the Vapor Phase	Eckenfelder, Inc.	Dr. Ann N. Clarke	$49,740	September 1993 - March 1994
11	68D30136	Fixation of Lead and Select Organic Compounds Using a Cold Mix Asphalt Process	Eckenfelder, Inc.	Dr. Ann N. Clarke	$50,000	September 1993 - March 1994
12	68D00047	Pilot Scale Field Implementation of Surfactant Flushing of Hydrophobic Refractory Organic Compounds	Eckenfelder, Inc.	Dr. Ann N. Clarke, Mr. Robert D. Mutch, Jr.	$149,909	September 1990 - November 1992
13	68D40077	Development of Pilot Scale Chlorinated Organic Vapor Phase Alkaline Destruction, COVPAD, Unit	Eckenfelder, Inc.	Dr. Ann N. Clarke	$165,000	September 1994 - September 1996
14	68D00029	Recovery of Liquid Hazardous Wastes from Carbon Adsorption Steam Regeneration Streams	Membrane Technology and Research, Inc.	Dr. J. G. Wijmans	$50,000	August 1990 - February 1991
15	68D60025	Self Contained Electrochemical System for Treating Paint Residue	Lynntech, Inc.	Dr. Charles L. Tennakoon	$70,000	September 1996 - March 1997
16	68D10065	Recycling of Solid, Inorganic, Zinc-Bearing Industrial Process Wastes	Chemical Reclamation Technologies	Michael D. Waite	$150,000	September 1991 - April 1993
17	68D70025	Low Cost Heavy Metals Removal from Hazardous Wastewaters	Lynntech, Inc.	Dr. Milan Bartos	$70,000	September 1997 - March 1998

18	68D98143	Excess Etchant Reduction and Copper Recovery Process for Cupric Chloride Recovery	Oxley Research, Inc.	Dr. J. E. Oxley	$70,000	September 1998 - March 1999
19	68D98130	Spark Induced Breakdown Spectroscopy for Detection of Metals in Groundwater and Soil	Physical Sciences Inc.	Dr. Amy J.R. Hunter	$69,990	September 1998 - March 1999
20	68D70054	A Low-Cost Environmentally Benign Waste Lubricant Recycling/Re-refining Technology	Media and Process Technology, Inc.	Dr. Paul K.T. Liu	$225,000	September 1997 - September 1999
21	68D30117	Development of a New Lead Fixation Technology	Wamax, Inc.	Dr. Rong Wang	$49,941	September 1993 - March 1994
22	68D60039	Novel Fiber Optic Biosensor for Pesticide Residue Detection	Fiber & Sensor Technologies, Inc.	Mr. Tuan Tran	$69,703	September 1996 - March 1997
23	68D00136	A Novel Absorbent-Reagent for HCI Control in On-site Disposal Regulated Medical Waste	EnviMed Services, Inc.	Dr. Paul H. Kydd	$50,000	September 1990 - April 1991
24	68D50072	Detoxification of Spent Hall Cell Potlining	EMEC Consultants	Dr. Rudolf Keller	$64,820	September 1995 - March 1996
25	68D50071	The Use of Multi-Component Waste Products for Use in Roofing Materials	Ecomat, Inc.	Dr. John N. Mushovic	$62,800	September 1995 - March 1996

26	68D00023	Recycling of Solid Zinc Phosphating Process Waste	Chemical Reclamation Technologies	Michael D. Waite	$47,110	August 1990 - February 1991
27	68D98140	In-Process Recycling of Spent Hexavalent Chromium Plating Bath	Faraday Technology, Inc.	Robert P. Renz	$69,428	September 1998 - March 1999
28	68D30125	Selective Elimination of Waste in a Metal Finishing Operation	IonEdge Corporation	Mr. Mandar Sunthankar	$50,000	September 1993 - March 1994
29	68D50099	Construction Material from Chemically Activated Fly Ash	By-Products Research, Inc.	Dr. Hossein Rostami	$62,000	September 1995 - March 1996
30	68D50117	Novel Catalysts for Hydrogenolysis of Organochlorine Pollutants	TDA Research, Inc.	Dr. Ronald L. Cook	$220,000	September 1995 - July 1998
31	68D50126	The Use of Recycled Solid Automotive Paint Wastes as Ingredients in Automotive Sealant Products	ASTER, Inc.	Dr. Michael J. Gerace	$216,882	September 1995 - September 1996
32	68D10034	Safe, Environmentally Acceptable Resources Recovery from Oil Refinery Sludge	Calderon Energy Company of Bowling Green, Inc.	Albert Calderon	$49,724	September 1991 - March 1992
33	68D60024	A Simplified Biosensor for Pesticide Residue Analysis	DISAN, Inc./ HTI Bio-Products, Inc.	Dr. Theodore T. Sand (DISAN, Inc.)	$70,000	September 1996 - March 1997

34	68D50074	Simultaneous Extraction of Anionic and Cationic Metal Contaminants at Superfund Sites	TDA Research, Inc.	Dr. Kevin Gleason	$65,000	September 1995 - March 1996
35	68D40035	The Use of Recycled Solid Automotive Paint Wastes as Ingredients in Automotive Sealant Products	Aster, Inc.	Dr. Michael J. Gerace	$54,800	September 1994 - March 1995
36	68D50100	Dual Purpose Electrochemical Treatment of Wastewater	Lynntech, Inc.	Dr. Charles Tennakoon	$65,000	September 1995 - March 1996
37	68D70044	Re-refining of Spent Ester-Based Synthetic Lubricants	Media and Process Technology, Inc.	Mr. Paul K.T. Liu	$70,000	September 1997 - March 1998
38	68D70045	High Flash Solvent Recovery Using Dual Purpose Ceramic Membrane Technology	Media and Process Technology, Inc.	Dr. Paul K.T. Liu	$69,558	September 1997 - March 1998
39	68D00030	Novel Cleanup of Metal Working Wastewaters	S.R. Taylor & Associates	Dr. Scott R. Taylor	$49,550	August 1990 - February 1991
40	68D60021	Development of a Membrane-Based System for the Recovery and Reuse of Solvents	Bend Research, Inc.	Dr. Scott B. McCray	$70,000	September 1996 - March 1997
41	68D98160	Re-Refining of Spent Ester-Based Synthetic Lubricants	Media and Process Technology, Inc.	Dr. Paul K. T. Liu	$224,947	September 1998 - September 2000

42	68D00055	Reclamation of Soils and Soil Leachates Contaminated with Heavy Metals	Bio-Recovery Systems, Inc.	Dr. James Michael Hosea	$49,924	September 1990 - April 1991
43	68D60045	A Low Cost Environmentally Benign Waste Lubricant Recycling/Re-refining Technology	Media and Process Technology, Inc.	Dr. Paul K.T. Liu	$69,568	September 1996 - March 1997
44	68D40054	Use of Sulfur Polymer Cement and Sulfur Extended Asphalt for Solidification/Stabilization of Lead and Organolead Contaminated Soils	CCW Technology Group, Inc.	Dr. Wendall H. Cross	$55,000	September 1994 - March 1995
45	68D30074	Photo-Thermal Conversion of CFCs and Halons to Valuable and Environmental Safe Materials	M.L. Energia, Inc.	Dr. Moshe Lavid	$150,000	September 1993 - October 1995
46	68D70053	Development of a Membrane-Based System for the Recovery and Reuse of Solvents	Bend Research, Inc.	Dr. Scott B. McCray	$225,000	September 1997 - March 1999
47	68D60023	Phosphate - Induced Metal Stabilization	NW Environmental Services, Testing & Training	Dr. James Conca	$66,307	September 1996 - March 1997
48	68D70016	A Long-Life, Low-Cost Sorbent for the Conversion of HCl to Chlorine	TDA Research, Inc.	Mr. Robert J. Copeland	$70,000	September 1997 - March 1998

Collections that were searched are:
Small Business Innovation Research Projects

Search Performed: Thursday August 19, 1999

NCER Funded

Science to Achieve Results (STAR) Research Projects:

Active Waste Management Municipal

NATIONAL CENTER FOR ENVIRONMENTAL RESEARCH

Office of Research and Development
U.S. Environmental Protection Agency

Tabular Query Results of NCER Program and Solicitation Information

5 Abstracts are listed

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Amount	Proposed Start Date
1	none	Used Tire Monofill	Urban Waste Management & Research Center	Ken McManis	none	none
2	R82-1365	Managing Municipal Solid Waste: Economic and Policy Issues	Resources for the Future	Molly K. Macauley	$205,000	2 Years

3	R823486	Influence of Biocolloids and Biocolloidal Structure on the Dewaterability of Anaerobically Digested Sludge	University of California, Davis	Jeannie L. Darby	$132,678	October 1995 - September 1997
4	R824738	Demanufacturing Partnership Program Located at Rutgers University	Rutgers University, Newark	Joan Mahon	$200,000	October 1, 1995 - September 30, 1997
5	R827131	The Effects of Aging and Sorbent Decomposition on the Bioavailability of Toluene and Xylene in Solid Waste	North Carolina State University	Morton A. Barlaz and Detlef R.U. Knappe	$425,000	October 1, 1998 - September 30, 2001

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Research Center Research Projects
Fellowship Research Projects
Grants Research Projects

Quick Help | Search Tips | More Search Options | Database Browser

Return to top of this document.

Search Performed: Friday November 08, 1999

NCER Funded
Small Business Innovation Research (SBIR) Research Projects:

Active Waste Management - Municipal

NATIONAL CENTER FOR ENVIRONMENTAL RESEARCH

Office of Research and Development
U.S. Environmental Protection Agency

Tabular Query Results of NCER Program and Solicitation Information

21 Abstracts are listed

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Amount	Proposed Start Date
1	68D40066	Utilization of Scrap Prepreg Wastes as a Reinforcement in a Wholly Recycled Plastic	Foster-Miller, Inc.	Dr. Kent G. Blizard	$164,668	September 1994 - March 1996
2	68D40074	Application of Artificial Intelligence to Automated Waste Recycling	National Recovery Technologies, Inc.	Dr. Edward J. Sommer, Jr.	$164,937	September 1994 - July 1997

3	68D98117	The Manufacture of Carbon Black from Oils Derived from Scrap Tires	Advanced Fuel Research, Inc.	Dr. Marek Wojtowicz	$70,000	September 1998 - March 1999
4	68D30065	A Low Cost Automated Process for Recovery of Recyclable Plastic and Glass Containers from Solid Waste	National Recovery Technologies, Inc.	Dr. Edward J. Sommer, Jr.	$149,936	September 1993 - March 1996
5	68D30119	Utilization of Scrap Prepreg Wastes as a Reinforcement in a Wholly Recycled Plastic	Foster-Miller, Inc.	Dr. Kent G. Blizard	$49,951	September 1993 - March 1994
6	68D30128	Silo Sulfonation Reactor for Waste Plastic and Rubber for Inclusion in High Performance Concrete	Coalition Technologies, Ltd.	Dr. W.E. (Bill) Walles	$50,000	September 1993 - March 1994
7	68D70038	Automated Separation of Post-Consumer Polymer Flake	National Recovery Technologies, Inc.	Dr. Edward J. Sommer, Jr.	$70,000	September 1997 - March 1998
8	68D50069	A Sorting System for Improving the Quality of Recycled PET Plastic Resins	National Recovery Technologies, Inc.	Dr.Edward J. Sommer, Jr.	$64,986	September 1995 - March 1996

9	68D10044	Color Sorting of Post-Consumer Glass and Plastic Containers to Improve Their Recyclability	National Recovery Technologies, Inc.	Edward J. Sommer, Jr.	$50,000	September 1991 - March 1992
10	68D40080	A Process Increasing the Amount and Quality of Recycled Plastics Resins	National Recovery Technologies, Inc.	Dr. Edward J. Sommer, Jr.	$164,937	September 1994 - July 1997
11	68D40068	Separation of Post-Consumer PET and PVC Plastics in the Regrind Flake Form	National Recovery Technologies, Inc.	Dr. Edward J. Sommer, Jr.	$164,682	September 1994 - September 1997
12	68D30123	Scrap Tire Pyrolysis -- Production of Highly Enhanced Marketable Products	HiChem Corporation	Dr. Martin E. Carrera	$50,000	September 1993 - March 1994
13	68D30109	Application of Artificial Intelligence to Automated Waste Recycling	National Recovery Technologies, Inc.	Dr. Edward J. Sommer, Jr.	$49,972	September 1993 - March 1994
14	68D70025	Low Cost Heavy Metals Removal from Hazardous Wastewaters	Lynntech, Inc.	Dr. Milan Bartos	$70,000	September 1997 - March 1998

15	68D30066	Conversion of Waste Stream Plastics Into Polymer Matrix Composite Materials	Robert Morgan & Company, Inc.	Mr. Michael D. Monfore	$149,998	September 1993 - December 1994
16	68D60050	A Sorting System for Improving the Quality of Recycled PET Plastic Resins	National Recovery Technologies, Inc.	Dr.Edward J. Sommer, Jr.	$225,000	September 1996 - December 1998
17	68D30102	A Process for Increasing the Amount and Quality of Recycled Plastics Resins	National Recovery Technologies, Inc.	Dr. Edward J. Sommer, Jr.	$49,948	September 1993 - March 1994
18	68D70026	Using Scrap Tires to Save up to 100 Million Dollars Per Year by Mitigating Bridge Flood Damage	Continuum Dynamics, Inc.	Dr. Alan J. Bilanin	$69,931	September 1997 - March 1998
19	68D40084	Rubber Tire Pyrolysis - Production of Highly Enhanced Marketable Products	HiChem Corporation	Dr. Martin E. Carrera	$145,616	September 1994 - April 1997
20	68D30104	Separation of Post-Consumer PET and PVC Plastics in the Regrind Flake Form	National Recovery Technologies, Inc.	Dr. Edward J. Sommer, Jr.	$49,903	September 1993 - March 1994

21	68D70032	Testing a New Separation Device for Sorting Recycled Plastic Chips Based on Differences in Specific Gravity	MBA Polymers, Inc.	Mr. Laurence Allen, III	$67,278.11	September 1997 - March 1998

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Small Business Innovation Research Projects

Quick Help | Search Tips | More Search Options | Database Browser

Return to top of this document.

Search Performed: Thursday August 19, 1999

NCERQA Funded
Science to Achieve Results (STAR)
Research Projects:

Remediation

NATIONAL CENTER FOR ENVIRONMENTAL RESEARCH

Office of Research and Development
U.S. Environmental Protection Agency

Tabular Query Results of NCER Program and Solicitation Information

120 Abstracts are listed

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Amount	Proposed Start Date
1	none	Vegetative Remediation	GREAT PLAINS ROCKY MOUNTAIN HSRC	Schnoor, Licht, St. Clair, Erickson, Cerny	none	January 1, 1991 - December 31, 2000
2	none	Field Application of Remediation Technologies	WESTERN REGION HSRC	McCarty, Williamson	none	January 1, 1991 - December 31, 2000

3	none	Remediation of Soil Contaminated with an Organic Phase	GREAT PLAINS ROCKY MOUNTAIN HSRC	Erickson, Fan	none	January 1, 1991 - December 31, 2000
4	none	Aquifer Remediation Design in the Presence of Kinetic Limitations	WESTERN REGION HSRC	Gorelick	none	January 1, 1991 - December 31, 2000
5	none	Innovative Technologies for Groundwater and Soil Remediation	NORTHEAST HSRC	Schuring	none	January 1, 1991 - December 31, 2000
6	104UTA0454	A Risk-Based Decision Analysis Approach for Aquifers Contaminated with DNAPLs	University of Texas	Daene C. McKinney, Robert B. Gilbert	none	none
7	none	Methanogenic Remediation of Aquifers	Northeast HSRC	Jaffe	none	January 1, 1991 - December 31, 2000
8	none	A Short Course on Remediation of Contaminated Soils and Sediments	GREAT PLAINS ROCKY MOUNTAIN HSRC	Kelly, Keefer, Rohde, Woldt	none	none
9	none	Remediation of Pesticide Spills: Technology Transfer to Volunteer Fire Fighters	GREAT PLAINS ROCKY MOUNTAIN HSRC	Kross	none	January 1, 1991 - December 31, 2000

10	none	Remediation of contaminated aquifers with surfactants Effect of surfactant sorption and desorption	GREAT LAKES AND MID-ATLANTIC HSRC	Hayes, Srinivasan	none	January 1, 1991 - December 31, 2000
11	none	Efficiency of surfactant remediation scenarios for non-aqueous phase liquid (NAPL) cleanup near the water table	GREAT LAKES AND MID-ATLANTIC HSRC	Wallace, Wiggert	none	January 1, 1991 - December 31, 2000
12	R826614	Multi-Objective Decision-Making for Environmental Remediation	Michigan Technological University1, Northern Michigan University2, US EPA3	Alex Mayer1, Jeff Horn2, Carl Enfield3	$253,571	September 1, 1998 - August 31, 2001
13	none	An Electrochemical Method for Acid Mine Drainage Remediation and Metals Recovery	GREAT PLAINS ROCKY MOUNTAIN HSRC	Walton	none	January 1, 1991 - December 31, 2000
14	none	Implementation Characteristics of Remediation Technologies	SOUTH AND SOUTHWESTERN HSRC	Dearing	none	January 1, 1991 - December 31, 2000
15	none	Remediating the NAPL Problem	NORTHEAST HSRC	Korfiatis	none	January 1, 1991 - December 31, 2000

16	104UAL0446	Soil Remediation by Agglomeration with Petroleum Coke	University of Alabama	David Arnold, Robert A. Griffin	none	none
17	none	Modeling for Design and Testing of Treatment and Remediation Technologies for Aquifer Soils Contaminated with Organic Waste Chemicals	GREAT PLAINS ROCKY MOUNTAIN HSRC	Illangasekare	none	January 1, 1991 - December 31, 2000
18	R827126	An Efficient Reliability-Based Approach to Aquifer Remediation Design	Northwestern University	Howard W. Reeves, Charles H. Dowding, and Takeru Igusa	$142,198	September 1, 1998 - August 31, 2000
19	none	Development of a Systematic Methodology for Optimally Designing Vegetative Systems for Remediating Contaminated Soil and Ground Water	South Dakota State University	J.C. Tracy, T.J. Van Lent, and V.R. Schaefer	none	none
20	none	Aquifer Remediation Design in the Presence of Kinetic Limitations	Stanford University	Steven M. Gorelick	none	none
21	none	Modeling of the Use of Plants in the Remediation of Soil and Groundwater Contaminated by Hazardous Organic Substances	GREAT PLAINS ROCKY MOUNTAIN HSRC	Tracy, Davis, Erickson, Schnoor	none	January 1, 1991 - December 31, 2000

22	094UHH3290	Photo-Oxidation by H2O2/VisUV of Off-Gas Atmospheric Emissions from Industrial and Environmental Remediation Sources	University of Houston	H. W. Prengle, Jr., James M. Symons	none	none
23	none	The Use of Poplar Trees in Remediating Heavy Metal Contaminated Sites	Great Plains/Rocky Mountain HSRC	Pierzynski, Tracy, Davis, Reddi, Erickson, Schnoor	none	January 1, 1991 - December 31, 2000
24	R825405	A Multi-Scale Investigation of Mass Transfer Limitations in Surfactant-Enhanced Aquifer Remediation	none	Alex Mayer and Gary A. Pope	$299,792	October 1, 1996 - October 31, 1999
25	R826162	Natural Remediation of Contaminated Soil and Ground Water by Barometric Pumping	University of Virginia	James A. Smith	$360,027	January 1, 1998 - December 31, 2000
26	R825825	A Decision Analysis Framework for Groundwater Remediation	Massachusetts Institute of Technology	Charles F. Harvey, Charles M. Harvey	$205,000	October 1, 1997 - September 30, 2000
27	none	Sulfide Size and Morphology Identification for Remediation of Acid Producing Mine Wastes	GREAT PLAINS ROCKY MOUNTAIN HSRC	Dollhopf	none	January 1, 1991 - December 31, 2000

28	none	Phase equilibria and transport properties of surfactant systems of interest to soil remediation	GREAT LAKES AND MID-ATLANTIC HSRC	Abriola, Weber	none	none
29	none	The Remediative Role of Deep-Rooted Poplar Trees in Adding Organic Carbon to the Soil for Pesticides and Toxic Organic Removal	Great Plains/Rocky Mountain HSRC	Licht, Schnoor	none	January 1, 1991 - December 31, 2000
30	094UHH0413	Biodegradable Surfactant for Underground Chlorinated Solvent Remediation	University of Houston	Kishore K. Mohanty, Raj Rajagopalan	none	none
31	none	Modeling surfactant mobilization of entrapped organic liquids in groundwater systems	GREAT LAKES AND MID-ATLANTIC HSRC	Abriola, Weber	none	January 1, 1991 - December 31, 2000
32	none	Destruction of Biologically Resistant Organics by Supercritical Water Oxidation	Great Lakes and Mid-Atlantic HSRC	Weber	none	January 1, 1991 - December 31, 2000
33	104UTA0438	In-Situ Remediation for Contaminated Soils Using Prefabricated Vertical Drains	University of Texas	John J. Bowders, David E. Daniel	none	none
34	none	The effect of surfactants on the transport properties of aquifers during remediation	GREAT LAKES AND MID-ATLANTIC HSRC	Demond	none	January 1, 1991 - December 31, 2000

35	none	Investigation into the Effectiveness of DNAPL Remediation Strategies in Fractured Media	Massachusetts Institute of Technology	Patricia J. Culligan-Hensley, John T. Germaine	none	none
36	none	Remediation of TNT-Contaminated Soil by Cyanobacterial Mat	Atlanta University	M. C. Mondecar Clark	none	none
37	none	Three Dimensional Characterization of Subsurface Contamination	NORTHEAST HSRC	McLaughlin	none	January 1, 1991 - December 31, 2000
38	none	Development of a Method for Removal of Nonvolatile Organic Materials from Soil Using Flotation	New Jersey Institute of Technology	Victor Ososkov, Barbara Kebbekus	none	none
39	R82-2591	Fabrication and Evaluation of Fiber Optic Photoreactors for the Photocatalytic Degradation of Organic Contaminants and the Photoplating Stripping of Heavy Metals	University of Wisconsin. Madison	Marc Anderson	$366,240	3 years

40	R827117	Improving the Performance of Permeable Reactive Barriers: Enhancing Reactivity and Longevity through Understanding of Surface Oxides	Oregon Graduate Institute1 and Oregon State University2	Paul G. Tratnyek1 and John C. Westall2	$374,252	October 1, 1998 - September 30, 2001
41	none	Development and Verification of a Numerical Model to Predict the Fate and Transport of Chlorinated Phenols in Groundwater	WESTERN REGION HSRC	Istok, Woods	none	January 1, 1991 - December 31, 2000
42	none	Extension of Laboratory Validated Treatment and Remediation Technologies to Field Problems in Aquifer Soil and Water Contamination by Organic Waste Chemicals	University of Colorado	T.H. Illangasekare	none	none
43	R824365	Simulation of the Kinetic Sorption and Desorption of Trichloroethene (TCE) and Surfactant in Ground Water at Picatinny Arsenal, New Jersey	University of Virginia; U.S. Geological Survey	James A. Smith and Thomas E. Imbrigiotta	$79,000	October 1, 1995 - April 1, 1997
44	none	Competitive & Mass Transfer Effects on the Sorption/Desorption of Contaminants in Soil	NORTHEAST HSRC	Kosson	none	January 1, 1991 - December 31, 2000

45	none	Design of Reliable and Cost-Effective Mitigation Schemes	WESTERN REGION HSRC	Gorelick	none	January 1, 1991 - December 31, 2000
46	none	Degradation of Chlorinated Aliphatic Compounds by Nitrifying Bacteria	Western Region HSRC	Arp, Williamson	none	January 1, 1991 - December 31, 2000
47	GF-95-00359	Evaluating the Applicability of Soil Vapor Extraction Technologies to Remediate Contaminated Sites	SUNY at Buffalo	Kevin Todd Russell	$23,625	6/1/95
48	R825449	Microbial Community Dynamics of PCB Dechlorination in Sediments	New York State Department of Health	G-Yull Rhee, Roger C. Sokol and Ellen Braun-Howland	$508,964	January 1, 1997 - December 31, 1999
49	none	Metals Soil Pollution and Vegetative Remediation	University of Iowa; Kansas State University	J.L. Schnoor, L.A. Licht, M.A. St. Clair, and C. Just; and L.E. Erickson	none	none
50	none	Ultrasonic Enhancement of Soil Fracturing Technologies for In-situ Detoxification of Contaminated Soil	New Jersey Institute of Technology	Deran Hanesian, Angelo J. Perna, John Schuring	none	none
51	none	Evaluation of Biosparging Performance and Process Fundamentals for Site Remediation	Utah State University	R.R. Dupont, D.L. Sorensen, and W.J. Doucette	none	none

52	R827120	The Effect of Clay on DNAPL Behavior During Alcohol Flushing	University of Vermont	Nancy J. Hayden	$375,240	December 1, 1998 - November 11, 2001
53	R826268	Pore Scale Determination of the Rate of NAPL Dissolution or Volatilization	University of California, Santa Barbara	Arturo A. Keller	$133,179	October 1, 1997 - September 30, 1999
54	R827112	Dissolution Dynamics of Multiple Component NAPLs In Aqueous and Surfactant/Cosolvent Systems	University of Arizona	Mark L. Brusseau	$362,453	September 1, 1998 - August 31, 2001
55	none	Detection of Microorganisms Capable of Anaerobic Degradation of Hazardous Substances in Natural Environments	California State University at Bakersfield	Sara E. Silverstone	none	none
56	R82-1558	Phytoremediation: Using Plants to Clean up Toxic Metal-Contaminated Soils and Water	Rutgers University	Ilya Raskin	$373,000	3 years
57	104TAM3312	Stochastic Risk Assessment for Bioremediation	Texas A & M University	Bill Batchelor, Juan B. Valdes	none	none
58	none	Microbial Degradation of Toluene Under Sulfate-Reducing Conditions: The Role of Iron	Western Region HSRC	Gribic'-Galic', Reinhard	none	January 1, 1991 - December 31, 2000

59	U91-5350	Engineered Sequential Anaerobic-Aerobic Treatment for Remediation of PCB Contaminated Soil	Colorado State University	Julia D. Rogers	34,000	8/24/98
60	none	Use of Poplar Trees in Remediating Heavy Metal Contaminated Sites	none	Pierzynski, Tracy, Davis, Reddi, Erickson, Schnoor	none	none
61	104 TAM0401	Use of Inorganic Ion Exchangers for Hazardous Waste Remediation	Texas A & M University	Abraham Clearfield, A. I. Bortun	none	none
62	104LUB0437, 104UTA0437	Laboratory and Field Scale Test Methodologies for Solidified/Stabilized Hazardous Waste	Lamar University	David L. Cocke	none	none
63	none	Pollution Prevention and Remediation through Photocatalytic Oxidation Processes	Michigan Technological University	J.C. Crittenden, D.W. Hand, V.H. Selzer, D.L. Perram, Y. Zhang, and B. Liu	none	none
64	R824785	Traveling Wave Behavior During Subsurface Transport of Biologically Reactive Contaminants Implications for In Situ Bioremediation	University of Illinois at Urbana-Champaign	Albert J. Valocchi	$200,000	January 1996 - December 1998

65	GF-95-02150	Intrinsic Bioremediation: Process Demonstration and Evaluation	The University of Texas at Austin	Derek Williamson	$31,500	8/15/95
66	R82-1050	Remediation of Metal Contaminated Soil by Complexing Agents Incorporating Metal Recovery and Chelator Recovery	University of Delaware	Herbert E. Allen	$247,926	3 years
67	none	Modeling for Design and Testing of Treatment and Remediation Technologies for Aquifer Soils Contaminated with Organic Waste Chemicals	University of Colorado	T.H. Illangasekare	none	none
68	none	TCE Ground Water Attenuation in Severe Northern Climates	Utah State University	R.R. Dupont, D.L. Sorensen, M. Kemblowski, and D. Smith	none	none
69	none	Remediation of Soils Contaminated with Wood-Treatment Chemicals	University of Missouri; U.S. Army Corps of Engineers	R.K. Bajpai, S.K. Banerji, and R.K. Puri; M.E. Zappi	none	none
70	R826180	Destruction of PCBs, CAHs, CFCs and Organic Nitro/Nitrate Wastes in Soils and Bulk with CaNH3 at Ambient Temperature.	Mississippi State University	Charles U. Pittman, Jr.	$317,027	February 1, 1998 - January 31, 2001

71	none	Large Scale Model for Anaerobic Bioremediation at the Seal Beach Site	Stanford University	Martin Reinhard and Peter K. Kitanidis	none	none
72	none	Characterization of PAH Degrading Bacteria in Coastal Sediments	Alabama A&M University	M. G. Tadros	none	none
73	104UCF0423	Sequential Environments for Enhanced Bioremediation of Chlorinated Aliphatic Hydrocarbons	University of Central Florida	Andrew A. Randall, A. Basel Al-Yousfi	none	none
74	R823579	Dissolution Kinetics of Single and Multicomponent NAPL Pools in Saturated Three-dimensional Porous Media	University of California, Irvine	Constantinos V. Chrysikopoulos	$315,368	September 1995 - August 1998
75	R81-9058	Investigation of Chlorinated Hydrocarbon Detection in Groundwater by Gas Adsorption on Noble Metal Surfaces	Arizona State University, Tempe	William Glaunsinger	$338,030	3 years
76	R826650	Dissolved Humic Substances in Enhanced Dissolution of DNAPLs	University of Utah	William P. Johnson	$285,595	September 1, 1998 - August 31, 2001

77	104LSU0435	Sonochemical Treatment of Hazardous Organic Compounds II: Process Optimization and Pathway Studies	Louisianna State University	Thomas Junk, W. James Catallo	none	none
78	R825399	Processes Influencing the Mobility of Arsenic and Chromium in Reduced Soils and Sediments	University of Idaho	Scott Fendorf	$293,573	January 28, 1997 - January 27, 2000
79	R827132	Biosurfactant Specificity and Influence on Microbial Degradation of Hydrocarbons by Microbial Consortia in the Field	Wayne State University	Gina S. Shreve	$424,689	September 1, 1998 - August 31, 2001
80	R823420	Biostimulation of BTX Degradation with Environmentally Benign Aromatic Substrates	The University of Iowa	Pedro J. Alvarez	$246,342	October 1995 - September 1998
81	R825409	Investigation of the Entrapment and Surfactant Enhanced Recovery of Nonaqueous Phase Liquids in Heterogeneous Sandy Media	University of Michigan; Georgia Institute of Technology; Auburn University	Linda M. Abriola, Kurt D. Pennell, and Jacob H. Dane	$449,938	November 1, 1996 - October 31, 1999

82	none	The Use of Vegetation to Enhance Bioremediation of Surface Soils Contaminated with Pesticide Wastes	Iowa State University	J.R. Coats and T.A. Anderson	none	none
83	104TAM2359	Optimization of Treatment Technologies for Detoxification of PCB Contaminated Soils	Texas A & M University	K. C. Donnelly, Bruce E. Dale	none	none
84	none	Evaluation and Modeling of Subsurface Biobarrier Formation and Persistence	Montana State University; University of Wyoming	A.B. Cunningham; B.M. Chen	none	none
85	none	Superfund Sites and the Mineral Industries Methods	Chemical and Fuels Engineering, University of Utah	Dr. Donald A. Dahlstrom	none	none
86	R82-2329	Degradation of Environmental Pollutants by Plants	University of Washington	Milton P. Gordon	$395,406	3 years
87	none	Surfactant Selection Protocol for Ex Situ Soil Washing	University of Oklahoma	Dr. David A. Sabatini, Dr. Jeffrey H. Harwell	none	none
88	R825396	Surface Chemistry of Oil/Soil/Water Systems for Improved Oil Removal from Contaminated Soil by Air-Sparged Hydrocyclone Flotation	University of Utah	Jan D. Miller and Jaroslaw Drelich	$315,706	January 20, 1997 - January 19, 2000

89	R825415	Bioavailability, Complex Mixtures, and In-Situ Bioremediation of Organic Contaminants	University of Arizona	Mark Brusseau and R.M. Miller	$487,377	November 1, 1996 - October 31, 1999
90	none	In-Situ Anaerobic Biodegradation of BTEX Hydrocarbon Contaminant	Northern Arizona University	Aregai Tecle	none	none
91	none	Removal of VOCs from Contaminated Groundwater and Soils by Pervaporation	Chemistry and Environmental Science, New Jersey Institute of Technology	Professor Kamalesh K. Sirkar, Dr. Ibrahim Abou-Nemeh, Ms. Sukla Chandra, Mr. Ashish Saraf	none	none
92	none	Anaerobic Ethylbenzene Oxidation in Denitrifying Strain EB1	Stanford University	Alfred M. Spormann	none	none
93	none	Full-Scale Evaluation of In Situ Bioremediation of Chlorinated Solvent Groundwater Contamination	Stanford University	Perry L. McCarty, Mark N. Goltz, and Gary D. Hopkins	none	none
94	104TAM2343	Permanence of Metals Containment in Solidified and Stabilized Wastes	Texas A & M University	Larry P. Wilding, Bill Batchelor	none	none
95	104UTA2331	Biofiltration Technology Development	University of Texas	Raymond C. Loehr	none	none

96	R826646	Determination of Binding Interactions Between Xenobiotic Chemicals and Soil	The Pennsylvania State University	Jean-Marc Bollag and Jerzy Dec	$408,775	October 1, 1998 - September 30, 2001
97	R826157	Effect of Heterogeneities on Instability and Fingering of DNAPLS Below the Water Table	University of Arizona	Shlomo P. Neuman and James E. Smith	$330,000	March 1, 1998 - February 28, 2001
98	R825365	Bioavailability and Biostabilization of PCBs in Soil	Carnegie Mellon University	Richard G. Luthy	$499,056	January 1, 1997 - December 31, 1999
99	R826184	Remote Sampling Probe with Fast GC/MS Analysis: Subsurface Detection of Environmental Contaminants	Tufts University	Albert Robbat Jr., Alexander Gorshteyn, Zunovi Katayenko, Sigurdur Smarason	$305,234	February 16, 1998 - February 15, 2001
100	U91-5351	The Efficacy of Oxidative Coupling for Promoting In-Situ Immobilization of Phenolic Compounds in Contaminated Soil and Sediment Systems	University of Michigan, Environmental and Water Resources Engineering and Chemical Engineering	T. Michael Keinath II	34,000	9/8/98
101	none	Characterization of Subsurface NAPL Distributions at Heterogeneous Field Sites	Massachusetts Institute of Technology	Dennis McLaughlin and Prof. Dale Morgan	none	none

102	094LUB2382	Measurement of Oxygen Transfer Rate in Soil Matrices	Lamar University	Ku-Yen Li	none	none
103	none	Using Trainable Networks for the Three-Dimensional Characterization of Subsurface Contamination	none	Ibrahim N. Tansel	none	none
104	R826652	Modeling Microbial PCB Degradation and Binding	North Dakota State University	Stefan Balaz	$375,000	September 1, 1998 - August 31, 2001
105	none	Field Testing of Palladium-Catalyzed Hydrodehalogenation for Chlorinated Hydrocarbon Removal from Groundwater	Stanford University	Martin Reinhard and Paul V. Roberts	none	none
106	none	Application of Anaerobic and Multiple-Electron-Acceptor Bioremediation to Chlorinated Aliphatic Subsurface Contamination	University of Iowa	G.F. Parkin	none	none
107	R825223	Iron Mediated Reductive Transformation of Chlorinated Organic Compounds and Oxidized Metal Species in Groundwater Environments	University of Arizona	James Farrell	$500,000	October 1, 1996 - September 30, 2001

108	none	Development, Characterization, and Performance Evaluation of Ferrous-Ferric Oxide Adsorbents for Metal Removal from Contaminated Groundwater	Oregon State University (Supported by R2D2 Program)	Peter O. Nelson	none	none
109	none	Evaluation of Strategies for Full Scale Bioremediation of the Seal Beach Site Using Anaerobic Microbial Processes	Stanford University	Martin Reinhard, Gary Hopkins, and Peter Kitanidis	none	none
110	none	Acid Producing Metalliferous Waste Reclamation by Material Reprocessing and Vegetative Stabilization	Montana State University	F.F. Munshower	none	none
111	none	Assessment of Surfactant-Enhanced Bioremediation for Soils/Aquifers Containing Polycyclic Aromatic Hydrocarbons	Princeton University	Peter R. Jaffe	none	none
112	none	Development of a Phytoremediation Handbook: Considerations for Enhancing Microbial Degradation in the Rhizosphere	none	Todd A. Anderson	none	none

113	R821114	Reformulated Gasoline Transport and Clean-up of Spills to the Subsurface	Clarkson University, Potsdam, NY	Susan E. Powers	$240,479	October 1, 1995 - September 30, 1998
114	none	Physics of Dissolution of Nonaqueous Phase Liquids: Pore Networks and Field Simulations	Stanford University (Supported by R2D2 Program)	Steven M. Gorelick	none	none
115	none	The Application of Plant Biotechnology in Bioremediation of Contaminated Sediments	Alabama State University	S.V. Sahi	none	none
116	094UHH2347	Concentrated Halide Extraction and Recovery of Lead from Soil	University of Houston	Dennis Clifford	none	none
117	none	Modelling Air Emissions of Organic Compounds from Contaminated Sediments and Dredged Materials	Louisiana State University; US Army Engineers Waterways Experiment Station; University of Minnesota	K. T. Valsaraj, L. J. Thibodeaux, D. D. Reible; J. M. Brannon, T. E. Myers, C. B. Price; J. S. Gulliver	none	none
118	none	Desorption of Nonpolar Organic Pollutants from Historically Contaminated Sediments and Dredged Materials	Rice University	Mason B. Tomson, Amy T. Kan, Gongmin Fu, Wei Chen, and Margaret A. Hunter	none	none

119	none	Mobilization and Fate of Inorganic Contaminants Due to Resuspension of Cohesive Sediment	Georgia Institute of Technology	T. W. Sturm, A. Amirtharajah, and C. L. Tiller	none	none
120	none	Bioremediation of Sediments Contaminated with Polynuclear Aromatic Hydrocarbons	Rice University	J. B. Hughes and C. H. Ward	none	none

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Return to top of this document.

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Remediation

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Office of Research and Development
U.S. Environmental Protection Agency

Tabular Query Results of NCER Program and Solicitation Information

23 Abstracts are listed

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Amount	Proposed Start Date
1	68D98116	A Low-Cost, In-Situ Bimetallic Reduction Prototype System for the Treatment and Remediation of Chlorinated Solvent-Contaminated Ground Waters	Materials and Electrochemical Research (MER) Corporation	Dr. R. O. Loutfy	$70,000	September 1998 - March 1999

2	68D98121	A Novel, In-Situ Delivery Method for Peroxide for Remediation of Organically Contaminated Soils	Faraday Technology, Inc.	Dr. Maria E. Inman	$69,338	September 1998 - March 1999
3	68D50109	In-Situ Removal of Heavy Metals from Vadose Zone Contaminated Soils Using Enhanced Electrokinetics	Faraday Technology	Dr. Mahendra Sunkara	$64,176	September 1995 - March 1996
4	68D98123	High-Performance Electrolysis for In-Situ Remediation of Heavy Metals	Environmental Chemical Corporation	Dr. Jurgen H. Exner	$70,000	September 1998 - March 1999
5	68D98119	Improved Method for In-Situ Soil Remediation: The Modified "Lasagna TM" Process	Industrial Microwave Systems, LLC	Dr. J. Michael Drozd	$69,500	September 1998 - March 1999
6	68D98137	Low-Cost Activated Carbon for Permeable Contaminant Barriers	Altex Technologies Corporation	Dr. John T. Kelly	$70,000	September 1998 - March 1999
7	68D60037	Radon Mitigation by Electrostatic Removal	SR Environmental Monitors	Mr. John C. Dempsey	$69,519	September 1996 - March 1997
8	68D99060	Real-Time Analytical Technology for Environmental Applications	Nanomaterials Research Corporation	Dr. Bijan Miremadi	$70,000	September 1999 - March 2000

9	68D60056	Pulsed-Waterjet Soil Perforator	Waterjet Technology, Inc. (formerly Quest Integrated, Inc.)	Mr. Ron Lilley	$224,891	September 1996 - February 1998
10	68D60051	In-Situ Removal of Heavy Metals from Vadose Zone Contaminated Soils Using Enhanced Electrokinetics	Faraday Technology, Inc.	Dr. E. Jennings Taylor	$224,846	September 1996 - October 1998
11	68D60023	Phosphate - Induced Metal Stabilization	NW Environmental Services, Testing & Training	Dr. James Conca	$66,307	September 1996 - March 1997
12	68D30107	An Innovative Technology for the Destruction of Chlorinated Compounds in the Vapor Phase	Eckenfelder, Inc.	Dr. Ann N. Clarke	$49,740	September 1993 - March 1994
13	68D30136	Fixation of Lead and Select Organic Compounds Using a Cold Mix Asphalt Process	Eckenfelder, Inc.	Dr. Ann N. Clarke	$50,000	September 1993 - March 1994
14	68D00047	Pilot Scale Field Implementation of Surfactant Flushing of Hydrophobic Refractory Organic Compounds	Eckenfelder, Inc.	Dr. Ann N. Clarke, Mr. Robert D. Mutch, Jr.	$149,909	September 1990 - November 1992
15	68D40077	Development of Pilot Scale Chlorinated Organic Vapor Phase Alkaline Destruction, COVPAD, Unit	Eckenfelder, Inc.	Dr. Ann N. Clarke	$165,000	September 1994 - September 1996

16	68D10057	Effects of Cosolvent Additions on the Biodegradability of High Molecular Weight PAH Compounds in Soil	BioTrol, Inc.	Durell C. Dobbins	$49,550	September 1991 - March 1992
17	68D50074	Simultaneous Extraction of Anionic and Cationic Metal Contaminants at Superfund Sites	TDA Research, Inc.	Dr. Kevin Gleason	$65,000	September 1995 - March 1996
18	68D00135	Biodegradation Enhancement of Petrogenic Wastes	ECOVA Corporation	Dr. William Mahaffey	$50,000	September 1990 - June 1991
19	68D50114	Catalytically Activated Monitor for Chlorinated Hydrocarbons	KSE, Inc.	Dr. J. R. Kittrell	$220,000	September 1995 - March 1997
20	68D50108	Pulsed-Jet Ground Penetration for Delivery of In Situ Bioremediation Agents	Quest Integrated, Inc.	Dr. Jack Kolle	$65,000	September 1995 - March 1996
21	68D10046	Develop Biodegradable, Non-Toxic, Oleophilic Hydrophobic Sorbent for Oil Spill Cleanup	Sea Sweep, Inc.	Thomas B. Reed	$50,000	September 1991 - March 1992
22	68D70027	Phytoremediation of TNT-Contaminated Soils Using Plants Selected by a Four-Step Screening Procedure	Phytokinetics, Inc.	Dr. Ari M. Ferro	$70,000	September 1997 - March 1998

23	68D98139	The Development and Scale Up of an Enhanced Mass Transport Resin for Efficient and Cost Effective Heavy Metals Removal and Recovery	SolmeteX, Inc.	Richard A. Hamilton	$67,916	September 1998 - March 1999

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Return to top of this document.

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Bioremediation

NATIONAL CENTER FOR ENVIRONMENTAL RESEARCH

Office of Research and Development
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Tabular Query Results of NCER Program and Solicitation Information

83 Abstracts are listed

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Amount	Proposed Start Date
1	none	Bioremediation of Contaminated Sediments and Dredged Material	South/Southwest HSRC	Ward, Hughes	none	January 1, 1991 - December 31, 2000
2	none	In-Situ Bioremediation of Organic Groundwater Contaminants	Great Plains/Rocky Mountain HSRC	Characklis, Jones, Cunningham, Lewandowski	none	January 1, 1991 - December 31, 2000

3	none	Process Submodel Formulation and Parameter Estimation for Simulation of Bioremediation	Western Region HSRC	Roberts, Semprini, Lang	none	January 1, 1991 - December 31, 2000
4	none	Thermophilic bioremediation	Great Lakes and Mid-Atlantic HSRC	Oriel	none	January 1, 1991 - December 31, 2000
5	none	Bioremediation: A Video Primer	GREAT LAKES AND MID-ATLANTIC HSRC	Voice, Berger	none	January 1, 1991 - December 31, 2000
6	104TAM3312	Stochastic Risk Assessment for Bioremediation	Texas A & M University	Bill Batchelor, Juan B. Valdes	none	none
7	none	Subsurface Mixing of Nutrients and Groundwater for In-Situ Bioremediation	Western Region HSRC	McCarty, Kitanidis, Semprini	none	January 1, 1991 - December 31, 2000
8	none	Test-Bed Evaluation of In-Situ Bioremediation of Chlorinated Aliphatic Compounds by Toluene Oxygenase Microorganisms	Western Region HSRC	McCarty, Hopkins, Semprini, Roberts	none	January 1, 1991 - December 31, 2000
9	none	In-Situ Biological Treatment of Aromatics in Groundwater	Western Region HSRC	Reinhard, McCarty	none	January 1, 1991 - December 31, 2000

10	none	Demonstration of In-Situ Bioremediation of Chlorinated Aliphatics by Methanotrophs at St. Joseph (Supported by the Gas Research Institute and the U.S. EPA Biosystems Program)	WESTERN REGION HSRC	McCarty, Roberts, Gorelick, Kitanidis, Semprini	none	January 1, 1991 - December 31, 2000
11	none	Oxidation of Chlorinated Solvents by Methanotrophs (Supported by the Gas Research Institute)	Western Region HSRC	McCarty, Roberts	none	January 1, 1991 - December 31, 2000
12	R825415	Bioavailability, Complex Mixtures, and In-Situ Bioremediation of Organic Contaminants	University of Arizona	Mark Brusseau and R.M. Miller	$487,377	November 1, 1996 - October 31, 1999
13	R823420	Biostimulation of BTX Degradation with Environmentally Benign Aromatic Substrates	The University of Iowa	Pedro J. Alvarez	$246,342	October 1995 - September 1998
14	none	Methanogenic Remediation of Aquifers	Northeast HSRC	Jaffe	none	January 1, 1991 - December 31, 2000
15	R824785	Traveling Wave Behavior During Subsurface Transport of Biologically Reactive Contaminants Implications for In Situ Bioremediation	University of Illinois at Urbana-Champaign	Albert J. Valocchi	$200,000	January 1996 - December 1998

16	none	Application of Anaerobic and Multiple-Electron-Acceptor Bioremediation to Chlorinated Aliphatic Subsurface Contamination	University of Iowa	G.F. Parkin	none	none
17	094LUB2382	Measurement of Oxygen Transfer Rate in Soil Matrices	Lamar University	Ku-Yen Li	none	none
18	none	Use of C2 to C10 Organic Acids to Enhance Bioremediation of DNAPL Contaminated Aquifers	South Dakota State University	S.A. Gibson, J.C. Tracy, and M.S. Kennedy	none	none
19	none	Field Scale Bioremediation: Relationship of Parent Compound Disappearance to Humification, Mineralization, Leaching, Volatilization of Transformation Intermediates	Utah State University	R.C. Sims	none	none
20	none	Pseudomonas Starvation Promoter-Driven In-Situ Bioremediation	Stanford University	Abdul Matin	none	none
21	GF-95-02150	Intrinsic Bioremediation: Process Demonstration and Evaluation	The University of Texas at Austin	Derek Williamson	$31,500	8/15/95
22	none	Isolating Organisms Which Dechlorinate Polychlorinated Biphenyls (PCBs)	Great Lakes and Mid-Atlantic HSRC	Tiedje	none	January 1, 1991 - December 31, 2000

23	R823390	Use of Pseudomonas Starvation Promoters in In-Situ Bioremediation	Department of Microbiology and Immunology; Stanford University	A. Matin, Dr. D-E Hahm, Dr. Marian Rivkina, Ms. Mimi Keyhan	$401,960	August 15, 1995 - August 14, 1998
24	none	Demonstration of an Interceptor Trench Technology for the Bioremediation of a Pentachlorophenol-Contaminated Ground Water	Oregon State University	Sandra Woods	none	none
25	none	Moffett Field In-Situ Bioremediation Study in Support of Full Scale Application	Stanford University (Supported by the U. S. Air Force)	Perry L. McCarty, Gary D. Hopkins, and Mark N. Goltz	none	none
26	none	Bioremediation of Sediments Contaminated with Polynuclear Aromatic Hydrocarbons	Rice University	J. B. Hughes and C. H. Ward	none	none
27	none	Investigation of the Mechanisms Controlling the Rates of Dechlorination of Halogenated Organic Solvents by Methanogens	Great Lakes and Mid-Atlantic HSRC Return to the top of the page	Vogel	none	none
28	none	Bioremediation of Sediments PVAMU Faculty and Student Participation in Technology Development and Transfer	Prairie View A&M University	R. Radhakrishnan	none	none

29	none	Hydrocarbon and Biological Factors Affecting Aquifer Clogging During In-Situ Bioremediation	Stanford University	Perry L. McCarty	none	none
30	none	In-Situ Bioremediation of Organic Compounds: Coupling of Mass Transfer and Biodegradation	New Jersey Institute of Technology; John Hopkins University	Dr. Gordon A. Lewandowski; Dr. Edward J Bouwer	none	none
31	none	Full-Scale Evaluation of In Situ Bioremediation of Chlorinated Solvent Groundwater Contamination	Stanford University	Perry L. McCarty, Mark N. Goltz, and Gary D. Hopkins	none	none
32	none	Characterization of PAH Degrading Bacteria in Coastal Sediments	Alabama A&M University	M. G. Tadros	none	none
33	R82-2393	Field and Microcosm Studies for Evaluating the Bioremediation Potential of Genetically Engineered Microorganisms in Aquifers	University of Minnesota	Daryl F. Dwyer	$294,195	3 years
34	104UCF0423	Sequential Environments for Enhanced Bioremediation of Chlorinated Aliphatic Hydrocarbons	University of Central Florida	Andrew A. Randall, A. Basel Al-Yousfi	none	none
35	R823341	Biomineralization of Heavy Metals Within Fungal Mycelia A New Technology for Bioremediation of Hazardous Wastes	Worcester Polytechnic Institute	Theodore C. Crusberg	$296,053	October 1995 - September 1998

36	none	Assessment of Surfactant-Enhanced Bioremediation for Soils/Aquifers Containing Polycyclic Aromatic Hydrocarbons	Princeton University	Peter R. Jaffe	none	none
37	R825365	Bioavailability and Biostabilization of PCBs in Soil	Carnegie Mellon University	Richard G. Luthy	$499,056	January 1, 1997 - December 31, 1999
38	none	Large Scale Model for Anaerobic Bioremediation at the Seal Beach Site	Stanford University	Martin Reinhard and Peter K. Kitanidis	none	none
39	none	The Application of Plant Biotechnology in Bioremediation of Contaminated Sediments	Alabama State University	S.V. Sahi	none	none
40	R823377	Biomimetic Oxidation of Hydrocarbons Related to Bioremediation Processes	Boston University, Department of Chemistry	Pericles Stavropoulos	$321,711	October 1, 1995 - September 30, 1998
41	none	The Use of Vegetation to Enhance Bioremediation of Surface Soils Contaminated with Pesticide Wastes	Iowa State University	J.R. Coats and T.A. Anderson	none	none
42	none	Evaluation of Strategies for Full Scale Bioremediation of the Seal Beach Site Using Anaerobic Microbial Processes	Stanford University	Martin Reinhard, Gary Hopkins, and Peter Kitanidis	none	none

43	none	Detection of Microorganisms Capable of Anaerobic Degradation of Hazardous Substances in Natural Environments	California State University at Bakersfield	Sara E. Silverstone	none	none
44	none	Bioremediation Of Ethylene Glycol From Airport Deicer Product	University of Detroit Mercy	James F. Graves, Jodi D. Rogers, Alison D. Horetski and Jeffrey R. Loeb	none	none
45	none	Remediation of TNT-Contaminated Soil by Cyanobacterial Mat	Atlanta University	M. C. Mondecar Clark	none	none
46	R82-1284	Transport, Degradation, and Survival of Free and Encapsulated Microbial Cells in a Heterogeneous Subsurface Environment	University of Idaho	Ronald L. Crawford	$304,492	3 years
47	104UTA0438	In-Situ Remediation for Contaminated Soils Using Prefabricated Vertical Drains	University of Texas	John J. Bowders, David E. Daniel	none	none
48	none	Development of a Vitamin B12-Amended Bioremediation Process for the Reductive Dechlorination of Chlorobiphenyls at all Chlorine Positions	Oregon State University	Sandra Woods	none	none
49	none	Effects of Surfactants on the Bioavailability and Biodegradation of Contaminants in Soils	Montana State University; Mycotech Corporation	W.P. Inskeep and J.M. Wraith; C.G. Johnston	none	none

50	094UHH3328	Integrated Process Treatment Train (Bioremediation {Aerobic/Anaerobic} and Immobilization) for Texas Soils Contaminated with Combined Hazardous Wastes	University of Houston	C. Vipulanandan, D. J. Roberts, Dennis Clifford	none	none
51	U91-5350	Engineered Sequential Anaerobic-Aerobic Treatment for Remediation of PCB Contaminated Soil	Colorado State University	Julia D. Rogers	34,000	8/24/98
52	R82-0779	Microbial Mediation of HIo/Hg2+ Cycling in Soil and Water	University of Georgia	Anne 0. Summers	$361,381	3 years
53	R 825414	Phytoremediation and Modeling of Land Contaminated by Hydrons	Texas A&M University	Clyde Munster, Malcolm Drew, and Yavuz Corapcioglu	$452,020	October 28, 1996 - October 27, 1999
54	R81-9417	Hydrocarbon Degrading	University of Alaska	Don K. Button	$352,201	3 years
55	104UTA0454	A Risk-Based Decision Analysis Approach for Aquifers Contaminated with DNAPLs	University of Texas	Daene C. McKinney, Robert B. Gilbert	none	none
56	none	Biotransformation of Lead and Chromate by Bacteria	Xavier University	Robert C. Blake	none	none

57	none	Anaerobic Biodegradation of 2,4,6-Trinitrotoluene and other Nitroaromatic Compounds by Clostridium Acetobutylicum	Rice University	J.Hughes , F. Rudolph , G. Bennett	none	none
58	R8255961	Bioavailability and Biostabilization of Multicomponent Nonaqueous Phase Liquids in the Subsurface	University of Colorado	Tissa Illangasekare, Anuradha Ramaswami, and Anglea Bielefeldt	$433,441	October 1, l997 - September 30, 2000
59	R823576	NMR Structural Studies of Mercury Transport Proteins	University of Pennsylvania	Stanley J. Opella	$404,667	October 1995 - September 1998
60	none	Biochemical Mechanisms of PCE Dehalogenation by Strain MS-1, and its Potential for In-situ Bioaugmentation	Stanford University (Supported by R2D2 Program)	Pramod K. Sharma and Perry L. McCarty	none	none
61	R826687	Immunotoxicity of Both Nondegraded and Biodegraded Polychlorinated Biphenyls (PCBs)	Medical University of South Carolina	Lucille London	$379,176	September 15, 1998 - September 14, 2001
62	none	Remediation of Soils Contaminated with Wood-Treatment Chemicals	University of Missouri; U.S. Army Corps of Engineers	R.K. Bajpai, S.K. Banerji, and R.K. Puri; M.E. Zappi	none	none

63	R822444	Importance of Reductive Dechlorination in Chesapeake Bay Sediments Role of Sulfate Respiration	University of Maryland, University of Maryland, University of Maryland CEES/CBL, BERL/Academy of Natural Sciences	Douglas G. Capone, Joel E. Baker, and Cynthia C. Gilmour	$286,703	October 1995 - September 1998
64	R823426	Aerobic Cometabolism of Ether-bonded Compounds	Oregon State University	Michael R. Hyman	$358,953	October 1995 - September 1998
65	none	The "Bubble Wall": A Passive In Situ System for Treatment and/or Containment of Contaminated Groundwater	Oregon State University; Stanford University	Jonathan D. Istok, Virginia A. Fry, John S. Selker; Steven M. Gorelick	none	none
66	R825404	Influence of Nonionic Surfactants on the Bioavailability of Chlorinated Benzenes for Microbial Reductive Dechlorination	Georgia Tech Research Corp.	Spyros G. Pavlostathis and Kurt D. Pennell	$333,348	November 12, 1996 - November 11, 1999
67	104UAL0446	Soil Remediation by Agglomeration with Petroleum Coke	University of Alabama	David Arnold, Robert A. Griffin	none	none
68	none	Effects of Redox Zones on the Fate and Transport of Contaminants in the Saturated Subsurface; Characterization and Simulation	Stanford University (Supported by R2D2 Program)	Keith Loague	none	none

69	none	In-Situ Anaerobic Biodegradation of BTEX Hydrocarbon Contaminant	Northern Arizona University	Aregai Tecle	none	none
70	R826105	The Biochemistry and Molecular Biology of Microbial Selenate and Arsenate Transformation	Duquesne University, U.S. Geological Survey	John F. Stolz, Joseph McCormick, Ronald S. Oremland	$273,119	October 1, 1997 - September 30, 2000
71	none	Pathways of Anaerobic Toluene Metabolism by a Sulfate-Reducing Bacterium, Strain PRTOL1	Stanford University	Alfred M. Spormann	none	none
72	none	Anaerobic Ethylbenzene Oxidation in Denitrifying Strain EB1	Stanford University	Alfred M. Spormann	none	none
73	R826652	Modeling Microbial PCB Degradation and Binding	North Dakota State University	Stefan Balaz	$375,000	September 1, 1998 - August 31, 2001
74	R826161	The Effect of In Situ Biosurfactant Production on Hydrocarbon Biodegradation	University of Oklahoma	K.A. Strevett, R. Tanner, D. Sabatini, and J. Everett	$323,072	March 10, l998 - March 9, 2001
75	R823351	Integrating Molecular and Biochemical Techniques to Characterize Adaptation Mechanisms of Anaerobic Microbial Communities Exposed to Chlorinated Organics.	Northwestern University	David A. Stahl (P.I.), Bruce E. Rittmann (co-P.I.)	$406,372	October 1, 1995 - September 30, 1998

76	R827227	Development of Novel Bioadsorbents for Heavy Metal Removal	University of California, Riverside	Wilfred Chen, Ashok Mulchandani, and Rajesh Mehra	$360,818	December 1, 1998 - November 30, 2001
77	none	An Investigation of the Chlorinated Hydrocarbon Substrate Range of the Filamentous Fungus, Graphium sp	Oregon State University	ichael Hyman and Lynda CiuffettiM	none	none
78	R826170	Role of Microbial Metabolism and Cometabolism in Treating Mixtures of Biodegradable and Nonbiodegradable Chemicals in Granular Activated Carbon Columns	University of Texas at Austin	Gerald E. Speitel Jr.	$304,688	December 1, 1997 - November 30, 2000
79	R826189	Physiochemical and Microbial Controls on the Speciation and Release of Arsenic into Ground and Surface Waters	University of Wisconsin	Robert J. Hamers and Jillian F. Banfield	$312,496	January 1, 1998 - December 31, 2000
80	R825958	Assessment of Biotic and Abiotic Processes Controlling the Fate of Chlorinated Solvents in Mixed-Waste Under Iron- and Sulfate-Reducing Conditions Using Laboratory and In Situ Microcosms	The University of Michigan	Kim F. Hayes, Peter Adriaens, and Michael J. Barcelona	$449,975	November 17, 1997 - November 16, 2000
81	none	Inhibition, Inactivation and Recovery: A Universal Model for Aerobic Cometabolic Degradation of Aliphatic Compounds	Oregon State University	Daniel Arp, Michael Hyman, and Ken Williamson	none	none

82	R827132	Biosurfactant Specificity and Influence on Microbial Degradation of Hydrocarbons by Microbial Consortia in the Field	Wayne State University	Gina S. Shreve	$424,689	September 1, 1998 - August 31, 2001
83	none	Development of a Systematic Methodology for Optimally Designing Vegetative Systems for Remediating Contaminated Soil and Ground Water	South Dakota State University	J.C. Tracy, T.J. Van Lent, and V.R. Schaefer	none	none

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Tabular Query Results of NCER Program and Solicitation Information

3 Abstracts are listed

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Amount	Proposed Start Date
1	68D50108	Pulsed-Jet Ground Penetration for Delivery of In Situ Bioremediation Agents	Quest Integrated, Inc.	Dr. Jack Kolle	$65,000	September 1995 - March 1996
2	68D10057	Effects of Cosolvent Additions on the Biodegradability of High Molecular Weight PAH Compounds in Soil	BioTrol, Inc.	Durell C. Dobbins	$49,550	September 1991 - March 1992

3	68D98121	A Novel, In-Situ Delivery Method for Peroxide for Remediation of Organically Contaminated Soils	Faraday Technology, Inc.	Dr. Maria E. Inman	$69,338	September 1998 - March 1999

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Office of Research and Development
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Tabular Query Results of NCER Program and Solicitation Information

67 Abstracts are listed

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Amount	Proposed Start Date
1	none	Innovative Technologies for Groundwater and Soil Remediation	NORTHEAST HSRC	Schuring	none	January 1, 1991 - December 31, 2000
2	none	In-Situ Biological Treatment of Aromatics in Groundwater	Western Region HSRC	Reinhard, McCarty	none	January 1, 1991 - December 31, 2000

3	none	Modeling of the Use of Plants in the Remediation of Soil and Groundwater Contaminated by Hazardous Organic Substances	GREAT PLAINS ROCKY MOUNTAIN HSRC	Tracy, Davis, Erickson, Schnoor	none	January 1, 1991 - December 31, 2000
4	R826162	Natural Remediation of Contaminated Soil and Ground Water by Barometric Pumping	University of Virginia	James A. Smith	$360,027	January 1, 1998 - December 31, 2000
5	R825825	A Decision Analysis Framework for Groundwater Remediation	Massachusetts Institute of Technology	Charles F. Harvey, Charles M. Harvey	$205,000	October 1, 1997 - September 30, 2000
6	none	Deep-Rooted Poplar Trees as an Innovative Treatment Technology for Pesticide and Toxic Organics Removal from Groundwater	Great Plains/Rocky Mountain HSRC	Schnoor, Licht	none	January 1, 1991 - December 31, 2000
7	none	Design and Operation of Biological Activated Carbon Adsorption Systems	Great Lakes and Mid-Atlantic HSRC	Voice	none	January 1, 1991 - December 31, 2000
8	none	Modeling surfactant mobilization of entrapped organic liquids in groundwater systems	GREAT LAKES AND MID-ATLANTIC HSRC	Abriola, Weber	none	January 1, 1991 - December 31, 2000
9	none	Three Dimensional Characterization of Subsurface Contamination	NORTHEAST HSRC	McLaughlin	none	January 1, 1991 - December 31, 2000

10	none	Demonstration of an Interceptor Trench Technology for the Bioremediation of a Pentachlorophenol-Contaminated Ground Water	Oregon State University	Sandra Woods	none	none
11	none	Dispersion Modeling of Volatile Organic Emissions from Ground-Level Treatment Systems	WESTERN REGION HSRC	Hildemann, Roberts	none	January 1, 1991 - December 31, 2000
12	104LUB7136	Development of an Air-Stripping and UV/H2O2 Oxidation Integrated Process To Treat a Chloro-Hydrocarbon-Contaminated Ground Water	Lamar University	Ku-Yen Li	none	none
13	none	Development and Verification of a Numerical Model to Predict the Fate and Transport of Chlorinated Phenols in Groundwater	WESTERN REGION HSRC	Istok, Woods	none	January 1, 1991 - December 31, 2000
14	none	Development of a Systematic Methodology for Optimally Designing Vegetative Systems for Remediating Contaminated Soil and Ground Water	South Dakota State University	J.C. Tracy, T.J. Van Lent, and V.R. Schaefer	none	none
15	R824365	Simulation of the Kinetic Sorption and Desorption of Trichloroethene (TCE) and Surfactant in Ground Water at Picatinny Arsenal, New Jersey	University of Virginia; U.S. Geological Survey	James A. Smith and Thomas E. Imbrigiotta	$79,000	October 1, 1995 - April 1, 1997

16	R826614	Multi-Objective Decision-Making for Environmental Remediation	Michigan Technological University1, Northern Michigan University2, US EPA3	Alex Mayer1, Jeff Horn2, Carl Enfield3	$253,571	September 1, 1998 - August 31, 2001
17	none	The Remediative Role of Deep-Rooted Poplar Trees in Adding Organic Carbon to the Soil for Pesticides and Toxic Organic Removal	Great Plains/Rocky Mountain HSRC	Licht, Schnoor	none	January 1, 1991 - December 31, 2000
18	none	Evaluation of Biosparging Performance and Process Fundamentals for Site Remediation	Utah State University	R.R. Dupont, D.L. Sorensen, and W.J. Doucette	none	none
19	R827112	Dissolution Dynamics of Multiple Component NAPLs In Aqueous and Surfactant/Cosolvent Systems	University of Arizona	Mark L. Brusseau	$362,453	September 1, 1998 - August 31, 2001
20	none	Aquifer Remediation Design in the Presence of Kinetic Limitations	Stanford University	Steven M. Gorelick	none	none
21	none	Development, Characterization, and Performance Evaluation of Ferrous-Ferric Oxide Adsorbents for Metal Removal from Contaminated Groundwater	Oregon State University (Supported by R2D2 Program)	Peter O. Nelson	none	none

22	094UCF2338	Hydrodynamic Modeling of Leachate Recirculating Landfill	University of Central Florida	Debra R. Reinhart, Basel Al-Yousfi	none	none
23	none	Pollution Prevention and Remediation through Photocatalytic Oxidation Processes	Michigan Technological University	J.C. Crittenden, D.W. Hand, V.H. Selzer, D.L. Perram, Y. Zhang, and B. Liu	none	none
24	R824785	Traveling Wave Behavior During Subsurface Transport of Biologically Reactive Contaminants Implications for In Situ Bioremediation	University of Illinois at Urbana-Champaign	Albert J. Valocchi	$200,000	January 1996 - December 1998
25	GF-95-02150	Intrinsic Bioremediation: Process Demonstration and Evaluation	The University of Texas at Austin	Derek Williamson	$31,500	8/15/95
26	094UHH3290	Photo-Oxidation by H2O2/VisUV of Off-Gas Atmospheric Emissions from Industrial and Environmental Remediation Sources	University of Houston	H. W. Prengle, Jr., James M. Symons	none	none
27	none	Field Testing of A Solar Assisted System for Detoxification of Water	Michigan Technological University	J.C. Crittenden, D.W. Hand, and Yin Zhang,	none	none
28	none	In-Situ Bioremediation of Organic Compounds: Coupling of Mass Transfer and Biodegradation	New Jersey Institute of Technology; John Hopkins University	Dr. Gordon A. Lewandowski; Dr. Edward J Bouwer	none	none

29	none	TCE Ground Water Attenuation in Severe Northern Climates	Utah State University	R.R. Dupont, D.L. Sorensen, M. Kemblowski, and D. Smith	none	none
30	R827126	An Efficient Reliability-Based Approach to Aquifer Remediation Design	Northwestern University	Howard W. Reeves, Charles H. Dowding, and Takeru Igusa	$142,198	September 1, 1998 - August 31, 2000
31	R827117	Improving the Performance of Permeable Reactive Barriers: Enhancing Reactivity and Longevity through Understanding of Surface Oxides	Oregon Graduate Institute1 and Oregon State University2	Paul G. Tratnyek1 and John C. Westall2	$374,252	October 1, 1998 - September 30, 2001
32	none	The "Bubble Wall": A Passive In Situ System for Treatment and/or Containment of Contaminated Groundwater	Oregon State University; Stanford University	Jonathan D. Istok, Virginia A. Fry, John S. Selker; Steven M. Gorelick	none	none
33	R823579	Dissolution Kinetics of Single and Multicomponent NAPL Pools in Saturated Three-dimensional Porous Media	University of California, Irvine	Constantinos V. Chrysikopoulos	$315,368	September 1995 - August 1998
34	R825223	Iron Mediated Reductive Transformation of Chlorinated Organic Compounds and Oxidized Metal Species in Groundwater Environments	University of Arizona	James Farrell	$500,000	October 1, 1996 - September 30, 2001

35	R823420	Biostimulation of BTX Degradation with Environmentally Benign Aromatic Substrates	The University of Iowa	Pedro J. Alvarez	$246,342	October 1995 - September 1998
36	none	Evaluation and Modeling of Subsurface Biobarrier Formation and Persistence	Montana State University; University of Wyoming	A.B. Cunningham; B.M. Chen	none	none
37	none	Field Test of In-Situ Vapor Stripping for Removal of VOCS from Groundwater	Stanford University	Steven M. Gorelick	none	none
38	R826163	Fenton-Like Reductions for the Enhanced Desorption and Degradation of Biorefractory Contaminants	Washington State University, University of Idaho	Richard J. Watts, Amy L. Teel, Thomas F. Hess	$307,481	February 1, 1998 - January 31, 2001
39	GF-95-00575	Reductive Dehalogenation at Electrodes	New Mexico Highlands University	Richard Presley	$23,830	May, 1995
40	none	In Situ Treatment of Chlorinated Solvents	Stanford University	Perry L. McCarty	none	none
41	R827133	Understanding Seasonal Variation of Bioavailability of Residual NAPL in the Vadose Zone	University of California, Santa Barbara	Patricia Holden and Arturo A. Keller	$425,000	October 1, 1998 - September 30, 2001

42	none	Removal of VOCs from Contaminated Groundwater and Soils by Pervaporation	Chemistry and Environmental Science, New Jersey Institute of Technology	Professor Kamalesh K. Sirkar, Dr. Ibrahim Abou-Nemeh, Ms. Sukla Chandra, Mr. Ashish Saraf	none	none
43	R827114	A Method for Characterizing the Vadose Zone and Monitoring Solute Transport	University of Arizona	James Yeh	$359,955	October 1, 1998 - September 30, 2001
44	none	Full-Scale Evaluation of In Situ Bioremediation of Chlorinated Solvent Groundwater Contamination	Stanford University	Perry L. McCarty, Mark N. Goltz, and Gary D. Hopkins	none	none
45	R824875	Reversible Inactivation of Viruses in Groundwater	El Paso Community College; Texas A&M Agricultural Research and Extension Center	Maria E. Alvarez and Surresh Pillai (Co-PI)	$176,939	September 15, 1996 - September 14, 1998
46	R826157	Effect of Heterogeneities on Instability and Fingering of DNAPLS Below the Water Table	University of Arizona	Shlomo P. Neuman and James E. Smith	$330,000	March 1, 1998 - February 28, 2001

47	U91-5351	The Efficacy of Oxidative Coupling for Promoting In-Situ Immobilization of Phenolic Compounds in Contaminated Soil and Sediment Systems	University of Michigan, Environmental and Water Resources Engineering and Chemical Engineering	T. Michael Keinath II	34,000	9/8/98
48	none	Characterization of Subsurface NAPL Distributions at Heterogeneous Field Sites	Massachusetts Institute of Technology	Dennis McLaughlin and Prof. Dale Morgan	none	none
49	none	Using Trainable Networks for the Three-Dimensional Characterization of Subsurface Contamination	none	Ibrahim N. Tansel	none	none
50	none	Field Testing of Palladium-Catalyzed Hydrodehalogenation for Chlorinated Hydrocarbon Removal from Groundwater	Stanford University	Martin Reinhard and Paul V. Roberts	none	none
51	104UTA0454	A Risk-Based Decision Analysis Approach for Aquifers Contaminated with DNAPLs	University of Texas	Daene C. McKinney, Robert B. Gilbert	none	none
52	R826650	Dissolved Humic Substances in Enhanced Dissolution of DNAPLs	University of Utah	William P. Johnson	$285,595	September 1, 1998 - August 31, 2001

53	104LSU0435	Sonochemical Treatment of Hazardous Organic Compounds II: Process Optimization and Pathway Studies	Louisianna State University	Thomas Junk, W. James Catallo	none	none
54	none	Evaluation of Strategies for Full Scale Bioremediation of the Seal Beach Site Using Anaerobic Microbial Processes	Stanford University	Martin Reinhard, Gary Hopkins, and Peter Kitanidis	none	none
55	R826268	Pore Scale Determination of the Rate of NAPL Dissolution or Volatilization	University of California, Santa Barbara	Arturo A. Keller	$133,179	October 1, 1997 - September 30, 1999
56	R823402	Characterization and Kinetics of Contaminant Oxidation and Hydrogen Peroxide Decomposition in the Presence of Subsurface Material	The University of Iowa	Richard L. Valentine, Ph.D.	$189,242	none
57	R825418	Effect of Spatial Heterogeneity on the Natural Bioattenuation of Dissolved Hydrocarbons	North Carolina State University	Morton A. Barlaz and Robert C. Borden	$449,052	October 28, 1999 - October 27,1999
58	none	Microbial Degradation of Toluene Under Sulfate-Reducing Conditions--The Role of Iron	Stanford University	Martin Reinhard	none	none

59	R8255961	Bioavailability and Biostabilization of Multicomponent Nonaqueous Phase Liquids in the Subsurface	University of Colorado	Tissa Illangasekare, Anuradha Ramaswami, and Anglea Bielefeldt	$433,441	October 1, l997 - September 30, 2000
60	R826179	Virus Attachment, Release, and Inactivation During Groundwater Transport	University of Colorado at Boulder, University of California at Los Angeles, and U.S. Geological Survey	Joseph N. Ryan, Menachem Elimelech, and Ronald W. Harvey	$372,392	January 13, 1998 - January 12, 2001
61	R821114	Reformulated Gasoline Transport and Clean-up of Spills to the Subsurface	Clarkson University, Potsdam, NY	Susan E. Powers	$240,479	October 1, 1995 - September 30, 1998
62	none	Use of Poplar Trees in Remediating Heavy Metal Contaminated Sites	none	Pierzynski, Tracy, Davis, Reddi, Erickson, Schnoor	none	none
63	none	Biochemical Mechanisms of PCE Dehalogenation by Strain MS-1, and its Potential for In-situ Bioaugmentation	Stanford University (Supported by R2D2 Program)	Pramod K. Sharma and Perry L. McCarty	none	none
64	R827116	Theoretical Evaluation of the Interfacial Area between Two Fluids in Soil	The University of Texas at Austin	Steven L. Bryant	$246,378	October 1, 1998 - September 30, 2001

65	R826189	Physiochemical and Microbial Controls on the Speciation and Release of Arsenic into Ground and Surface Waters	University of Wisconsin	Robert J. Hamers and Jillian F. Banfield	$312,496	January 1, 1998 - December 31, 2000
66	104UCF0423	Sequential Environments for Enhanced Bioremediation of Chlorinated Aliphatic Hydrocarbons	University of Central Florida	Andrew A. Randall, A. Basel Al-Yousfi	none	none
67	none	Development of a Phytoremediation Handbook: Considerations for Enhancing Microbial Degradation in the Rhizosphere	none	Todd A. Anderson	none	none

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Tabular Query Results of NCER Program and Solicitation Information

14 Abstracts are listed

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Amount	Proposed Start Date
1	68D98116	A Low-Cost, In-Situ Bimetallic Reduction Prototype System for the Treatment and Remediation of Chlorinated Solvent-Contaminated Ground Waters	Materials and Electrochemical Research (MER) Corporation	Dr. R. O. Loutfy	$70,000	September 1998 - March 1999
2	68D98123	High-Performance Electrolysis for In-Situ Remediation of Heavy Metals	Environmental Chemical Corporation	Dr. Jurgen H. Exner	$70,000	September 1998 - March 1999

3	68D50082	High Efficiency Electrochemical Treatment of Groundwater Contaminated with Heavy Metals	Faraday Technology, Inc.	Dr. Chengdong Zhou	$64,752	September 1995 - March 1996
4	68D98121	A Novel, In-Situ Delivery Method for Peroxide for Remediation of Organically Contaminated Soils	Faraday Technology, Inc.	Dr. Maria E. Inman	$69,338	September 1998 - March 1999
5	68D98137	Low-Cost Activated Carbon for Permeable Contaminant Barriers	Altex Technologies Corporation	Dr. John T. Kelly	$70,000	September 1998 - March 1999
6	68D60056	Pulsed-Waterjet Soil Perforator	Waterjet Technology, Inc. (formerly Quest Integrated, Inc.)	Mr. Ron Lilley	$224,891	September 1996 - February 1998
7	68D60023	Phosphate - Induced Metal Stabilization	NW Environmental Services, Testing & Training	Dr. James Conca	$66,307	September 1996 - March 1997
8	68D50074	Simultaneous Extraction of Anionic and Cationic Metal Contaminants at Superfund Sites	TDA Research, Inc.	Dr. Kevin Gleason	$65,000	September 1995 - March 1996
9	68D10061	Heavy Metal Removal and Recovery with a Natural Zeolite Continuous Ion Exchange Thermal Multicomponent Fractionator	Boulder Innovative Technologies	Richard D. Andrews	$32,628	September 1991 - March 1992

10	68D50108	Pulsed-Jet Ground Penetration for Delivery of In Situ Bioremediation Agents	Quest Integrated, Inc.	Dr. Jack Kolle	$65,000	September 1995 - March 1996
11	68D70027	Phytoremediation of TNT-Contaminated Soils Using Plants Selected by a Four-Step Screening Procedure	Phytokinetics, Inc.	Dr. Ari M. Ferro	$70,000	September 1997 - March 1998
12	68D98139	The Development and Scale Up of an Enhanced Mass Transport Resin for Efficient and Cost Effective Heavy Metals Removal and Recovery	SolmeteX, Inc.	Richard A. Hamilton	$67,916	September 1998 - March 1999
13	68D99032	Hydrothermal/Thermal Decomposition of Perchlorate	Applied Research Associates, Inc.	Dr. Lixiong Li	$69,978	September 1999 - March 2000
14	68D10050	Emulsion Liquid Membrane Extraction of Chromium(VI) from Superfund Sites	TDA Research, Inc.	John Wright	$50,000	September 1991 - March 1992

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Return to top of this document.

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Tabular Query Results of NCER Program and Solicitation Information

24 Abstracts are listed

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Amount	Proposed Start Date
1	none	Heavy Metal/Chlorine Compound Distribution in Waste Incineration	NORTHEAST HSRC	Shaw, Cole	none	January 1, 1991 - December 31, 2000
2	104TAM0445	Combustion Enhancement by Radial Jet Reattachment - Low Generation of Hazardous Gases and High Thermal Efficiency	Texas A & M University	J. Seyed-Yagoobi	none	none

3	none	Fundamental Criteria for Better Design of Secondary Combustion Chambers	NORTHEAST HSRC	Longwell, Sarofim	none	January 1, 1991 - December 31, 2000
4	R827123	Multiplexed Diode-Laser Absorption Sensors for Real-Time Measurements and Control of Combustion Systems	Stanford University	Ronald K. Hanson and Douglas S. Baer	$344,605	October 1, 1998 û September 30, 2001
5	104LSU0428	Laser Diagnostics of the Combustion Process within a Rotary Kiln Incinerator	Louisianna State University	Timothy J. Garrison	none	none
6	R825412	Formation of Toxic By-Products in the Incineration of Hazardous Materials	University of California, Los Angeles, California	Selim M. Senkan	$389,553	November 1, 1996 - October 31, 1999
7	R825389	Optimization of In-Situ Capture by Sorbents of Toxic Metals in Combustion Processes	University of Arizona	Jost O.L. Wendt	$293,068	October 1, 1996 - September 30, 1999
8	094LUB0399	Sorbent Technology for Multipollutant Control During Fluidized Bed Incineration	Lamar University	Thomas C. Ho	none	none

9	none	Clean Combustion of Manufacturing Residues in the Forest Products and Photographic Industries	University of Wisconsin-Madison	K.W. Ragland	none	none
10	R81-9245	Incineration of Selected Municipal Waste Plastics, Industrial Refuse, and Used Automobile Tires: A Study of Combustion Kinetics and Emissions	Northwestern University	Y. A. Levendis	$344,953	3 years
11	R823933	Multiplexed Diode-Laser Gas Sensor System for In Situ Multispecies Emissions Measurements	Stanford University	Prof. R.K. Hanson (PI) and Dr. D.S. Baer	$194,870	October 1, 1994 - September 30, 1996
12	none	FTIR Analysis of Gaseous Products from Hazardous Waste Combustion	Claflin College	John P. Elwood, Shingara S. Sandhu	none	none
13	094UTA3281	Kaolinite Sorbent for the Removal of Heavy Metals from Incinerated Lubricating Oils	University of Texas	Matthew J. Hall	none	none
14	R826167	Formation of Chlorinated PAHs in the Combustion and Thermal Processing of Chlorine Containing Materials	University of Dayton	Barry Dellinger and Philip H. Taylor	$360,366	November 24, 1997 - November 23, 2000

15	R81-9178	Chemical Kinetics of Incineration of Halogenated Hydrocarbons	University of California, Los Angeles	S. Senkan	$452,274	3 years
16	none	Experimental and Detailed Modeling Studies of Pyrolytic & Oxidative Processing of Chlorocarbon	NORTHEAST HSRC	Bozzelli, Barat	none	January 1, 1991 - December 31, 2000
17	R82-1206	VUV-Photoionization Mass Spectrometry as a Combustor/Incinerator Diagnostic Tool	Yale University	Lisa Pfefferle	$373,121	3 years
18	R81-9861	Laser Photolysis/Laser-Induced Fluorescence Studies of HO-HCFC Rate Coefficients at Elevated Temperatures	University of Dayton	Philip Taylor	$360,000	3 years
19	none	Gaseous Emissions and Ash Characterization from Combustion of Manufactured Wood Products	University of Wisconsin	K.W. Ragland	none	none
20	R826169	Kinetic and Mechanistic Studies of the Reactions of Hydroxyl Radical with the Chloroethenes over an Extended Temperature Range	University of Dayton	Philip H. Taylor, Barry Dellinger	$356,702	November 24, 1997 - November 23, 2000

21	U91-5348	Carbon monoxide and volatile organics	Tufts University	Adam Weber	34,000	9/7/98
22	104UAL0446	Soil Remediation by Agglomeration with Petroleum Coke	University of Alabama	David Arnold, Robert A. Griffin	none	none
23	094UHH4214	Destruction of Chlorinated Hydrocarbons in Process Streams Using Catalytic Steam Reforming	University of Houston	James T. Richardson	none	none
24	none	Novel Approaches For Prevention And Control For Trace Metals	University of North Dakota	Michael D. Mann, John H. Pavlish, Ronald C. Timpe, Steven Sternberg, Kaleb Keuther, Eugene Kozliak	none	ending date

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Quick Help | Search Tips | More Search Options | Database Browser

Return to top of this document.

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U.S. Environmental Protection Agency

Tabular Query Results of NCER Program and Solicitation Information

28 Abstracts are listed

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Amount	Proposed Start Date
1	68D00041	Catalytically Stabilized Thermal Incineration of Volatile Organic Compounds	Precision Combustion, Inc.	Dr. William Pfefferle	$49,956	September 1990 - April 1991
2	68D40063	Improved Method for Removing Nitrogen Oxides from Combustion Gas Streams	EC&C Technologies	Dr. Hal B. H. Cooper	$55,000	September 1994 - March 1995

3	68D50144	EC&C Technologies Improved Method for Removing Nitrogen Oxides from Combustion Gas Streams	EC&C Technologies	Dr. Hal B. H. Cooper	$220,000	September 1995 - March 1997
4	68D30082	ENOx Process for NOx and Unburned Hydrocarbon Emissions from Combustion Sources	Plasmachines, Inc.	Mr. Michael P. Manning	$150,000	September 1993 - August 1996
5	68D10101	Application of Pulse Combustion in Solid and Hazardous Waste Incineration	Sonotech, Inc.	Douglas H. Neale	$149,941	September 1991 - June 1993
6	68D000	Innovative Incineration Technology for Fiberglass Manufacturing Solid and Hazardous Waste Disposal Recycling	Vortec Corporation	Dr. W. Francis Olix	$149,992	August 1990 - February 1991
7	68D50125	Innovative Technology for Efficient Utilization of Municipal Solid Waste	EnerTech Environmental, Inc.	Mr. Norman Dickinson	$220,000	September 1995 - May 1997
8	68D00053	Pilot-Scale Demonstration of A Pulse Combustion In-Furnace NO. Reduction Control Technique	Altex Technologies Corporation	Dr. John T. Kelley	$149,987	September 1990 - March 1992

9	68D40064	Catalysts for the Oxidation of Chlorinated Hydrocarbons	TDA Research, Inc.	Dr. Ronald L. Cook	$165,000	September 1994 - June 1997
10	68D10103	Catalytically Stabilized Thermal Incineration of Volatile Organic Compounds	Precision Combustion, Inc.	William Pfefferle	$150,000	September 1991 - September 1995
11	68D40029	A Continuous Emission Monitoring Device for Airborne Metals	Poulos Technical Services, Inc.	Dr. Arthur T. Poulos	$55,000	September 1994 - March 1995
12	68D00036	Application of Pulse Combustion in Solid and Hazardous Waste Incineration	Sonotech, Inc.	Mr. Martin Scarborough	$49,967	September 1990 - April 1991
13	68D40055	Innovative Technology for Municipal Solid Waste Disposal and Landfill Mining	EnerTech Environmental, Inc.	Mr. Norman Dickinson	$55,000	September 1994 - March 1995
14	68D00035	Innovative Hazardous Flyash and Industrial Process Dust Vitrification Technology	Vortec Corporation	Dr. W. Francis Olix	$49,985	July 1990 - February 1991
15	68D00028	Determination of solids Residence Time Distribution in Continuousiy Fed, Shallow Fluidized Beds: Towards the Development of a Fuel Efficient Contaminated Soils Incinerator	Energy and Environmental Engineering, Inc.	Dr. James H. Porter	$50,000	July 1990 - January 1991

16	68D40044	Novel Technology for Multiple Air Pollutants Removal from Hot Gas Streams	Energy and Environmental Research Corporation	Dr. Vladimir Zamansky	$54,991.59	September 1994 - March 1995
17	68D50121	Chemical Microsensors and Instrumentation for Continuous Monitoring and Control of Mercury Emissions	Senova Corporation	Dr. Ian W. Sorensen	$219,185	September 1995 - April 1996
18	68D50111	Heavy Metals Emissions Control by Co-Firing MSW and Coal	Physical Sciences, Inc.	Dr. Lawrence E. Bool, III	$65,000	September 1995 - March 1996
19	68D10055	Catalytic Adsorbents for the Abatement of Chlorinated Hydrocarbons	Aircor, Inc.	E. Robert Becker	$50,000	September 1991 - March 1992
20	68D00038	Total Oxidation of Contaminated Level Volatile Organic Hydrocarbons Over Aerogel Catalysts	ElectroChem, Inc.	Dr. Vinod Jalan	$50,000	September 1990 - April 1991
21	68D50142	Innovative Volatile Heavy-Metal Air-Toxics Control	Sorbent Technologies Corporation	Mr. Sid Nelson, Jr.	$220,000	September 1995 - October 1998
22	68D40032	Innovative Volatile Heavy-Metal Air-Toxics Control	Sorbent Technologies Corporation	Mr. Sid Nelson, Jr.	$55,000	September 1994 - March 1995

23	68D30116	Catalysts for the Oxidation of Chlorinated Hydrocarbons	TDA Research, Inc.	Dr. Ron Cook	$50,000	September 1993 - March 1994
24	68D30071	Novel Catalysts for the Low Temperature Oxidation of Volatile Organic Compounds	TDA Research, Inc.	Mr. John D. Wright	$150,000	September 1993 - August 1995
25	68D000	0n-board Generation of Ignition Improvers for Methanol Diesels	TDA Research, Inc.	Mr. Michael Karpuk	$50,000	July 1990 - January 1991
26	68D00046	Steam Reforming of Municipal Wastewater Sludge	Manufacturing and Technology Conversion International, Inc.	Mr. David W. Warren	$49,987	August 1990 - April 1991
27	68D00026	Dehydrohalogenation of Complex Hazardous Organic Wastes for Destruction and Resource Recovery	Chemical and Metal Industries, Inc.	Dr. Richard L. Angstadt	$49,565	August 1990 - February 1991
28	68D00049	Trace Metal Emission Control and Ash Stabilization in Incinerators	PSI Technology Company	Dr. Srivats Srinivasachar	$150,000	September 1990 - August 1992

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Quick Help | Search Tips | More Search Options | Database Browser

Return to top of this document.

Communicate | Search | Back to NCER | Back to ORD | Back to EPA

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U.S. Environmental Protection Agency

Tabular Query Results of NCER Program and Solicitation Information

23 Abstracts are listed

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Amount	Proposed Start Date
1	104TAM0445	Combustion Enhancement by Radial Jet Reattachment - Low Generation of Hazardous Gases and High Thermal Efficiency	Texas A & M University	J. Seyed-Yagoobi	none	none

2	R827123	Multiplexed Diode-Laser Absorption Sensors for Real-Time Measurements and Control of Combustion Systems	Stanford University	Ronald K. Hanson and Douglas S. Baer	$344,605	October 1, 1998 û September 30, 2001
3	104LSU0428	Laser Diagnostics of the Combustion Process within a Rotary Kiln Incinerator	Louisianna State University	Timothy J. Garrison	none	none
4	none	Clean Combustion of Manufacturing Residues in the Forest Products and Photographic Industries	University of Wisconsin-Madison	K.W. Ragland	none	none
5	R81-9245	Incineration of Selected Municipal Waste Plastics, Industrial Refuse, and Used Automobile Tires: A Study of Combustion Kinetics and Emissions	Northwestern University	Y. A. Levendis	$344,953	3 years

6	R826164	A Nitric Oxide/Ammonia Sensor for Fossil Fuel Combustion Control Applications	University of Maine	John F. Vetelino, B.E. Segee, and D.J. Dwyer	$197,761	January 21, 1998 - January 20, 2000
7	R826233	The Contribution of Biomass Combustion to Ambient Fine Particle Concentrations in the United States	California Institute of Technology	Glen R. Cass	$532,642	February 1, 1998 - January 31, 2001
8	R823933	Multiplexed Diode-Laser Gas Sensor System for In Situ Multispecies Emissions Measurements	Stanford University	Prof. R.K. Hanson (PI) and Dr. D.S. Baer	$194,870	October 1, 1994 - September 30, 1996
9	none	FTIR Analysis of Gaseous Products from Hazardous Waste Combustion	Claflin College	John P. Elwood, Shingara S. Sandhu	none	none
10	none	Markers for Emissions from Combustion Sources	Massachusetts Institute of Technology	Adel F. Sarofim, J. B. VanderSande	$225,789.12	06/30/97 ending date
11	R826730	RealTime, Ultrasensitive Measurement of Process Emissions for Pollution Prevention	University of California at Los Angeles	Selim M. Senkan	$350,000	October 1, 1998-September 30, 2001

12	R82-1206	VUV-Photoionization Mass Spectrometry as a Combustor/Incinerator Diagnostic Tool	Yale University	Lisa Pfefferle	$373,121	3 years
13	none	Process Impacts On Trace Element Speciation	University of North Dakota - EERC	Christopher J. Zygarlicke, Grant L. Schelkoph, Stanley J. Miller, Kevin C. Galbreath, Michael D. Mann	$540,000	9/30/98 ending date
14	none	Gaseous Emissions and Ash Characterization from Combustion of Manufactured Wood Products	University of Wisconsin	K.W. Ragland	none	none
15	R826177	Environmental Applications of Novel Instrumentation for Measurement of Lead Isotope Ratios In Atmospheric Pollution Source Apportionment Studies	University of Michigan, State University of New York at Binghamton	Gerald J. Keeler, Joseph R. Graney and Alexander N. Halliday	$99,776	December 1, 1997 - November 30, 1998

16	none	Laboratory and Field Evaluation of Upward Mobilization and Photodegradation of Polychlorinated Aromatics in Soil	University of Missouri	S. Kapila, D. Forciniti, and D.W. Armstrong	none	none
17	none	Remediation of Soils Contaminated with Wood-Treatment Chemicals	University of Missouri; U.S. Army Corps of Engineers	R.K. Bajpai, S.K. Banerji, and R.K. Puri; M.E. Zappi	none	none
18	R825380	Real-Time Trace Detection of Elemental Mercury and its Compounds	New Jersey Institute of Technology; Poulos Technical Services, Inc.	Robert Barat and Arthur T. Poulos.	$199,121	November 25, 1996 - November 24, 1998
19	none	Control of Mercury Emissions from Coal Fired Power Plants Using Fly-Ash-Derived Carbon	Michigan Technological University	J.Y. Hwang, X. Huang, R.E. Tieder and X. Liu	none	none
20	U91-5361	Studies of Aerosol Composition, Partitioning and Heterogeneous Chemistry using Infrared Spectroscopy	University of North Carolina at Chapel Hill	Cindy DeForest Hauser	22,978	8/16/98

21	R825391	Real-Time Analysis of PAH Bound to Size-Resolved Atmospheric Particles by Tandem Time of Flight Mass Spectrometers	Massachusetts Institute of Technology	Kenneth Smith	$375,000	October 1, 1996 - September 30, 1999
22	R826771	Partitioning of Semivolatile Organic Compounds in Organic and Inorganic Aerosols: A Unified Approach	University of North Carolina (Chapel Hill)	Richard Kamens, Myoseon Jang, Bharadwaj Chandramouli, and Michael Strommen	$562,536	October 1, 1998 - September 30, 2001
23	none	Novel Approaches For Prevention And Control For Trace Metals	University of North Dakota	Michael D. Mann, John H. Pavlish, Ronald C. Timpe, Steven Sternberg, Kaleb Keuther, Eugene Kozliak	none	ending date

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Quick Help | Search Tips | More Search Options | Database Browser

Return to top of this document.

Communicate | Search | Back to NCER | Back to ORD | Back to EPA

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Tabular Query Results of NCER Program and Solicitation Information

10 Abstracts are listed

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Amount	Proposed Start Date
1	68D50125	Innovative Technology for Efficient Utilization of Municipal Solid Waste	EnerTech Environmental, Inc.	Mr. Norman Dickinson	$220,000	September 1995 - May 1997
2	68D99064	Interferometric Continuous Emission Monitor for Active Control of Organic Emissions	Optomechanical Enterprises	Dr. Arthur T. Poulos	$69,853	September 1999 - March 2000

3	68D40029	A Continuous Emission Monitoring Device for Airborne Metals	Poulos Technical Services, Inc.	Dr. Arthur T. Poulos	$55,000	September 1994 - March 1995
4	68D50121	Chemical Microsensors and Instrumentation for Continuous Monitoring and Control of Mercury Emissions	Senova Corporation	Dr. Ian W. Sorensen	$219,185	September 1995 - April 1996
5	68D000	0n-board Generation of Ignition Improvers for Methanol Diesels	TDA Research, Inc.	Mr. Michael Karpuk	$50,000	July 1990 - January 1991
6	68D70014	Laser Diode Array for Multiple Pollutant Monitoring	Aerodyne Research, Inc.	Dr. J. Barry McManus	$69,765	September 1997 - March 1998
7	68D50105	A Nitrogen Dioxide Monitor Based on Nondispersive Visible Optical Detection	Aerodyne Research, Inc.	Dr. Paul Kebabian	$65,000	September 1995 - March 1996
8	68D50095	Instrument for Monitoring Fine, Respirable Particulate Matter in Flue Gases	Advanced Fuel Research, Inc.	Mr. James R. Markham	$64,836	September 1995 - March 1996
9	68D00054	A Proposed Continuous Monitor for Stack Emissions or Process Effluents with Recorder/Controller Function	Moduspec Company	Dr. Jack M. Goldstein	$150,000	September 1990 - February 1992

10	68D00049	Trace Metal Emission Control and Ash Stabilization in Incinerators	PSI Technology Company	Dr. Srivats Srinivasachar	$150,000	September 1990 - August 1992

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Quick Help | Search Tips | More Search Options | Database Browser

Return to top of this document.

Search Performed: Monday November 08, 1999

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Bioavailability

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Tabular Query Results of NCER Program and Solicitation Information

65 Abstracts are listed

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Amount	Proposed Start Date
1	none	Bioavailability of Aged Residues in Contaminated Soils	Great Lakes and Mid-Atlantic HSRC	Boyd	none	January 1, 1991 - December 31, 2000
2	R825415	Bioavailability, Complex Mixtures, and In-Situ Bioremediation of Organic Contaminants	University of Arizona	Mark Brusseau and R.M. Miller	$487,377	November 1, 1996 - October 31, 1999

3	R826104	Transport Mechanisms for Zinc Across Gill and Intestinal Epithelia of Fish	University of Kentucky	Christer Hogstrand	$373,342	November 15, 1997 - November 14, 2000
4	R825303	Bioavailability of Organic Contaminants in Estuarine Sediments to Microbes and Benthic Animals	Rutgers University	Gary L. Taghon, David S. Kosson and Lily Y. Young	$496,239	October 1, 1996 - September 30, 1999
5	R825410	Development of Chemical Methods to Assess the Bioavailability of Arsenic in Contaminated Media	Oklahoma State University; University of Missouri-Columbia	Nicholas T. Basta, Robin R. Rodriguez,and Stan W. Casteel	$431,677	November 1, 1996 - October 31, 1999
6	R8255961	Bioavailability and Biostabilization of Multicomponent Nonaqueous Phase Liquids in the Subsurface	University of Colorado	Tissa Illangasekare, Anuradha Ramaswami, and Anglea Bielefeldt	$433,441	October 1, l997 - September 30, 2000
7	none	Determining and Modeling Diffusion-limited Sorption and Desorption Rates of Organic Contaminants in Heterogeneous Soils	WESTERN REGION HSRC	Roberts	none	January 1, 1991 - December 31, 2000
8	R825413	The Effect of Plants on the Bioavailability and Toxicity of Contaminants in Soil	Kansas State University	Margaret K. Banks, A. Paul Schwab and J. Scott Smith	$499,941	January 1, 1997 - December 31, 2000

9	R825962	A Comprehensive Investigation of the Effects of Organic Geochemistry on the Sorption-Desorption, Sequestration, and Bioavailability of Mixed Organic Contaminants in Subsurface Systems	The University of Michigan	Walter J. Weber, Jr.	$440,748	January 1, 1998 - December 31, 2000
10	R827133	Understanding Seasonal Variation of Bioavailability of Residual NAPL in the Vadose Zone	University of California, Santa Barbara	Patricia Holden and Arturo A. Keller	$425,000	October 1, 1998 - September 30, 2001
11	R825220	Biogeochemical Control of Heavy Metal Speciation and Bioavailability in Contaminated Marine Sediments	Harvard University	James Shine	$453,630	December 2, 1996 - December 1, 2001
12	none	Mercury Uptake by Fish	Center for Ecological Health Research (Cal-Davis)	Joseph Cech	none	6/30/95 ending date
13	R827131	The Effects of Aging and Sorbent Decomposition on the Bioavailability of Toluene and Xylene in Solid Waste	North Carolina State University	Morton A. Barlaz and Detlef R.U. Knappe	$425,000	October 1, 1998 - September 30, 2001

14	U91-5465	Critical body residues and ion-exchange membranes as measures of heavy metal bioavailability and toxicity in soil	Oklahoma State University, Department of Zoology	Jason Conder	23,858	8/17/98
15	R825959	The Influence of Nanoporosity in Soils from Contaminated Sites on Hydrocarbon Desorption Kinetics and Bioavailability	The Connecticut Agricultural Experiment Station , New Haven; and Princeton University	Joseph J. Pignatello and Alexander V. Neimark	$436,399	January 1, l998 - December 31, 2000
16	R825960	Dependence of Metal Ion Bioavailability on Biogenic Ligands and Soil Humic Substances	University of California-Davis	Richard M. Higashi, Teresa W-M. Fan, and Andrew N. Lane	$345,816	January 1, 1998 -December 31, 2001
17	R825365	Bioavailability and Biostabilization of PCBs in Soil	Carnegie Mellon University	Richard G. Luthy	$499,056	January 1, 1997 - December 31, 1999
18	R825404	Influence of Nonionic Surfactants on the Bioavailability of Chlorinated Benzenes for Microbial Reductive Dechlorination	Georgia Tech Research Corp.	Spyros G. Pavlostathis and Kurt D. Pennell	$333,348	November 12, 1996 - November 11, 1999

19	none	Effects of Surfactants on the Bioavailability and Biodegradation of Contaminants in Soils	Montana State University; Mycotech Corporation	W.P. Inskeep and J.M. Wraith; C.G. Johnston	none	none
20	none	Removal of Heavy Metals from Hazardous Wastes by Protein Complexation for Their Ultimate Recovery and Reuse	GREAT PLAINS ROCKY MOUNTAIN HSRC	Ghosh	none	January 1, 1991 - December 31, 2000
21	R825406	Bioavailability of Aromatic Hydrocarbons in Saturated Porous Media The Effects of Chemical Aging and Mass Transfer	Johns Hopkins University	Edward J. Bouwer and William P. Ball	$439,725	December 6, 1996 - December 5, 1999
22	R825353	Digestive Solubilization of Sediment-Sorbed Contaminants A Comparison of In Vitro and In Vivo Processes	University of California, Berkeley; University of Maine	Donald P. Weston, Larry M. Mayer, and Deborah L. Penry	$374,945	December 1, 1996 - November 30, 1999
23	none	Assessment of Surfactant-Enhanced Bioremediation for Soils/Aquifers Containing Polycyclic Aromatic Hydrocarbons	Princeton University	Peter R. Jaffe	none	none

24	R825408	Bioavailability & Risk Assessment of Complex Mixtures	Texas A&M Research Foundation	Kirby C. Donnelly, S.H. Safe, R.L. Autenrieth, and T.J. McDonald	$443,997	November 15, 1996 - November 14, 1999
25	GF-95-00166	Uptake of Sediment-Associated Contaminants by the Deposit-Feeding Amphipod Leptocheirus Plumulosus (Shoemaker): Effects of Natural Sediment Qualities	University of South Carolina	Christian Schlekat	$29,280	June 1, 1995
26	U91-5385	Effect of bioavailable metal concentration on mechanisms of metal resistance	University of Arizona, Tucson	Todd Ryan Sandrin	33,449	8/24/98
27	R826161	The Effect of In Situ Biosurfactant Production on Hydrocarbon Biodegradation	University of Oklahoma	K.A. Strevett, R. Tanner, D. Sabatini, and J. Everett	$323,072	March 10, l998 - March 9, 2001

28	R825279	Meiofaunal Validation of EqP-Based Sediment Quality Criteria for Metal Mixtures in Estuarine Sediments Population to Community-Level Culturing Studies of Biogeochemical Controls on Bioavailability and Toxicity	University of South Carolina	G. Thomas Chandler and Thimothy J. Shaw	$484,376	January 1,1997 - December 31, 1999
29	R824787	In Situ Assessment of the Transport and Microbial Consumption of Oxygen in Groundwater	Wadsworth Center, New York State Dept of Health,Empire State Plaza, Albany, NY; U.S. Geological Survey, Boulder, CO; U.S. Geological Survey, Reston, VA	T.Yoshinari; R. L. Smith; J.K. Bohlke and K. Revesz;	$350,000	October 1995 - October 1998
30	U91-5352	The effects of legume and non-legume green manure crops on soil nitrogen, soil organic matter, and potato growth in a potato cropping system	University of Maine	Jeremy M. Plotkin	20,482	8/31/98
31	none	Fate and Transport of Heavy Metals and Radionuclides in Soil: The Impacts of Vegetation	Kansas State University	A.P. Schwab, M.K. Banks, and L.E. Erickson	none	none

32	GF-95-00062	Model for Bioavailability of Heavy Metals from Landfill Soils Using Artificial Human Digestive Fluids	Rutgers University	Stephanie Lynn Hamel	$29,900	5/95
33	R826199	Application of Sediment Quality Criteria for Metals to a Montane Lotic Ecosystem: Field Validation During Reclamation of a Copper Mine Causing Acid Mine Drainage	University of Wyoming	Joseph S. Meyer, Jeffrey A. Lockwood, Richard W. Rockwell	$449,558	April 1, 1998 - March 31, 2001
34	none	The Application of Plant Biotechnology in Bioremediation of Contaminated Sediments	Alabama State University	S.V. Sahi	none	none
35	R82-2329	Degradation of Environmental Pollutants by Plants	University of Washington	Milton P. Gordon	$395,406	3 years

36	R825958	Assessment of Biotic and Abiotic Processes Controlling the Fate of Chlorinated Solvents in Mixed-Waste Under Iron- and Sulfate-Reducing Conditions Using Laboratory and In Situ Microcosms	The University of Michigan	Kim F. Hayes, Peter Adriaens, and Michael J. Barcelona	$449,975	November 17, 1997 - November 16, 2000
37	R825403	Rates of Arsenic Oxidation-Reduction Reactions in Contaminated Soils Effects on Arsenic Fate and Mobility	Montana State University	William P. Inskeep	$329,735	December 15, 1996 - December 14, 1999
38	R824778	The Role of Hg(II) Reduction and Chemical Speciation in Controlling the Concentration of Mercury and its Methylation in Natural Waters	Department of Geosciences, Princeton University	Franþois M.M. Morel	$349,950	November 1, 1995 - October 31, 1998
39	none	Controls on Metal Partitioning in Contaminated Sediments	Georgia Institute of Technology; Skidaway Institute of Oceanography	F. M. Saunders; H. L. Windom, R. A. Jahnke	none	none

40	none	In-Situ Bioremediation of Organic Compounds: Coupling of Mass Transfer and Biodegradation	New Jersey Institute of Technology; John Hopkins University	Dr. Gordon A. Lewandowski; Dr. Edward J Bouwer	none	none
41	R825349	Transport of Polychlorinated Biphenyls from Adult Oyster Crassostrea virginica to Embryos and Larvae and Potential for Reproductive and Developmental Impairments	Virginia Institute of Marine Science	Fu-Lin E. Chu, Aswani K. Volety, and Robert C. Hale	$247,122	December 1, 1996 - November 30, 1998
42	R826646	Determination of Binding Interactions Between Xenobiotic Chemicals and Soil	The Pennsylvania State University	Jean-Marc Bollag and Jerzy Dec	$408,775	October 1, 1998 - September 30, 2001
43	U91-5373	Studies of the environmental fate of sediment-associated organic contaminants in marine systems	State University of New York	P. Lee Ferguson	31,342	8/31/98

44	R823442	The Effects of Anthropogenic Nitrogen Deposition on the Functioning of Alpine and Subalpine Ecosystems Nitrogen Cycling and Trace Gas Fluxes	University of Colorado, Boulder	Steven K. Schmidt, Mark Williams, and William Bowman	$329,280	October 1995 - September 1998
45	R826940	CISNet San Pablo Bay Network of Environmental Stress Indicators	University of California, Davis	S.G. Schladow, T. M. Young, I. Werner, B. Thompson, J. Collins, J. Davis, S. Siegel, N. Nur, D. Schoellhamer	$599,764	October 1, 1998 - September 30, 2001
46	R 825414	Phytoremediation and Modeling of Land Contaminated by Hydrons	Texas A&M University	Clyde Munster, Malcolm Drew, and Yavuz Corapcioglu	$452,020	October 28, 1996 - October 27, 1999
47	R826652	Modeling Microbial PCB Degradation and Binding	North Dakota State University	Stefan Balaz	$375,000	September 1, 1998 - August 31, 2001
48	R826310	Exposure and Response of Morelet's Crocodile (Crocodylus moreletii) Populations to Endocrine Disrupting Compounds in Belize, Central America	Texas Tech University	Scott T. McMurry	$159,788	December 1, 1997 - November 30, 2000

49	R823881	Immunotoxicity of Combined TBT and Co-planar PCB Exposures in Fish	Center For Environmental Health Sciences, College of Veterinary Medicine, Mississippi State University	Charles D. Rice	$274,120	October 1, 1995 - September 30, 1998
50	none	Biochemical Indicator Patterns and their Linkages to Adverse Effects on Benthic Invertebrate Patterns	Center for Ecological Health Research (Cal-Davis)	Teresa Fan, Richard Higashi	none	6/30/96 ending date
51	none	Metals Soil Pollution and Vegetative Remediation	University of Iowa; Kansas State University	J.L. Schnoor, L.A. Licht, M.A. St. Clair, and C. Just; and L.E. Erickson	none	none
52	R826107	Toxins of Bacillus thuringiensis in Transgenic Organisms: Persistence and Ecological Effects	New York University	Guenther Stotzky	$393,411	November 7, 1997 - November 6, 2000
53	R826651	The Particle Size Distribution of Toxicity in Metal-Contaminated Sediments	Colorado School of Mines,1 Colorado State University2	James Ranville,1 Donald Macalady,1 Phillipe Ross1, William Clements2	$372,795	September 1, 1998 - August 31, 2001
54	R827227	Development of Novel Bioadsorbents for Heavy Metal Removal	University of California, Riverside	Wilfred Chen, Ashok Mulchandani, and Rajesh Mehra	$360,818	December 1, 1998 - November 30, 2001

55	R 826684	Estimating Human Health Risk from Dermal Exposure to Contaminated Soils	Colorado School of Mines	Annette L. Bunge, Donald L. Macalady, William C. Navidi	$371,959	October 15, 1998 - October 14, 2001
56	R826189	Physiochemical and Microbial Controls on the Speciation and Release of Arsenic into Ground and Surface Waters	University of Wisconsin	Robert J. Hamers and Jillian F. Banfield	$312,496	January 1, 1998 - December 31, 2000
57	none	Inhibition, Inactivation and Recovery: A Universal Model for Aerobic Cometabolic Degradation of Aliphatic Compounds	Oregon State University	Daniel Arp, Michael Hyman, and Ken Williamson	none	none
58	none	Pollutant Fluxes to Aquatic Systems via Coupled Biological and Physicochemical Bed-Sediment Processes	Louisiana State University	D. D. Reible, K. T. Valsaraj, L. J. Thibodeaux, J.W. Fleeger	none	none
59	R827132	Biosurfactant Specificity and Influence on Microbial Degradation of Hydrocarbons by Microbial Consortia in the Field	Wayne State University	Gina S. Shreve	$424,689	September 1, 1998 - August 31, 2001

60	none	Bioremediation of Sediments Contaminated with Polynuclear Aromatic Hydrocarbons	Rice University	J. B. Hughes and C. H. Ward	none	none
61	none	Scale-Dependent Production of Contaminant Binding Capacity in P/B Mesocosms	Multiscale Experimental Ecosystem Research Center (MEERC) at the University of Maryland Center for Environmental Science	Baker and Harvey (Ashley, Turner, Mannino)	none	none
62	none	Effects of Biotic Complexity on the Response of Marsh Ecosystems to Nutrient Enrichment	Multiscale Experimental Ecosystem Research Center (MEERC) at the University of Maryland Center for Environmental Science	Stevenson, Reyes, Madden (Brawley, Dewar)	none	none
63	none	Anaerobic Biodegradation of 2,4,6-Trinitrotoluene and other Nitroaromatic Compounds by Clostridium Acetobutylicum	Rice University	J.Hughes , F. Rudolph , G. Bennett	none	none

64	none	Aquatic - Rivers and Estuaries	Center for Ecological Health Research (Cal-Davis)	David Hinton, Vet. Med.-Anatomy, Physiology and Cell Biology, Louis Botsford (Wildlife, Fish and Conservation Biology), Teresa Fan (Land, Air and Water Resources), Michael Fry (Avian Sciences), Richard Higashi (Bodega Marine Laboratory), Alan Jassby (Divi	450,987	6/30/95 ending date
65	none	Novel Approaches For Prevention And Control For Trace Metals	University of North Dakota	Michael D. Mann, John H. Pavlish, Ronald C. Timpe, Steven Sternberg, Kaleb Keuther, Eugene Kozliak	none	ending date

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Office of Research and Development
U.S. Environmental Protection Agency

Tabular Query Results of NCER Program and Solicitation Information

65 Abstracts are listed

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Amount	Proposed Start Date
1	none	Investigation on the Fate and Biotransformation of Hexachlorobutadiene and Chlorobenzenes in a Sediment-Water Estuarine System	SOUTH AND SOUTHWESTERN HSRC	Pavlostathis	none	January 1, 1991 - December 31, 2000

2	none	Modeling Dissolved Oxygen, Nitrate, and Pesticide Contamination in the Subsurface Environment	GREAT PLAINS ROCKY MOUNTAIN HSRC	Schnoor, Parkin	none	January 1, 1991 - December 31, 2000
3	none	Determining and Modeling Diffusion-limited Sorption and Desorption Rates of Organic Contaminants in Heterogeneous Soils	WESTERN REGION HSRC	Roberts	none	January 1, 1991 - December 31, 2000
4	none	Effects of Redox Zones on the Fate and Transport of Contaminants in the Saturated Subsurface; Characterization and Simulation	Stanford University	Keith Loague	none	none
5	U91-5373	Studies of the environmental fate of sediment-associated organic contaminants in marine systems	State University of New York	P. Lee Ferguson	31,342	8/31/98
6	R825278	Contaminated Sediments	University of California, Santa Barbara	Wilber Lick	$659,764	October 1, 1996 - September 30, 1999

7	none	The Fate and Transport of Munitions Residues in Contaminated Soil	University of Nebraska-Lincoln	S.D. Comfort, P.J. Shea, D.L. McCallister, and W.L. Powers	none	none
8	GF-95-00249	Assessment of the Effects of Changes in Soil Oxidation Reduction Potential to Speciation and Transport of Heavy Metals	Cornell University	Geoffrey A. Brown	$29,032	6/1/95
9	R826188	Fate and Transport of Heavy Metals in the Subsurface: Effects of Polymer-Surfactant Aggregates	University of Delaware	Steven K. Dentel, Daniel K. Cha, C. P. Huang	$295,582	September 1, 1997 - August 31, 2000
10	R824008	Redox Status and Degradation Kinetics of Representative Triazine and Urea Herbicides in Soil-Water Systems	Dennis E. Rolston University of California, Davis, California; Environmental Protection Agency, Sacramento, California	Gamani R. Jayaweera, James W. Biggar, and Frank Spurlock	$350,653	October 1995 û September 1998
11	none	Fate and Transport of Heavy Metals and Radionuclides in Soil: The Impacts of Vegetation	Kansas State University	A.P. Schwab, M.K. Banks, and L.E. Erickson	none	none
12	R82-0944	Sorption and Transport of HOCs in Aquatic Systems	University of California, Santa Barbara	Wilburt Lick	$267,993	2 years

13	R824979	Carbon Exchange Dynamics in a Temperate Forested Watershed (Northern Michigan) A Laboratory and Field Multidisciplinary Study	University of Michigan	Lynn M. Walter, Linda M. Abriola, Joyce M. Budai, George W. Kling, Philip A. Meyers, Donald R. Zak, and James A. Teeri	$800,000	October 1, 1996 - September 30, 1999
14	none	Environmental Fate and Risk Assessment Tool (EFRAT)	Michigan Technological University	David R. Shonnard, Alex S. Mayer, Kurtis G. Paterson, and Martin T. Auer	none	none
15	R821114	Reformulated Gasoline Transport and Clean-up of Spills to the Subsurface	Clarkson University, Potsdam, NY	Susan E. Powers	$240,479	October 1, 1995 - September 30, 1998
16	U91-5359	The Effect of Estuarine Sediment-Phase Interactions on Aqueous Copper Sorption	College of William and Mary	Kea Dukenfield	27,623	8/25/98
17	R825958	Assessment of Biotic and Abiotic Processes Controlling the Fate of Chlorinated Solvents in Mixed-Waste Under Iron- and Sulfate-Reducing Conditions Using Laboratory and In Situ Microcosms	The University of Michigan	Kim F. Hayes, Peter Adriaens, and Michael J. Barcelona	$449,975	November 17, 1997 - November 16, 2000

18	U91-5351	The Efficacy of Oxidative Coupling for Promoting In-Situ Immobilization of Phenolic Compounds in Contaminated Soil and Sediment Systems	University of Michigan, Environmental and Water Resources Engineering and Chemical Engineering	T. Michael Keinath II	34,000	9/8/98
19	R82539	The Relationships Among Particle Size, Composition, and Partitioning Phenomena in Aqueous Systems	Colorado School of Mines	Donald Macalady, James Ranville, and Annette Bunge	$ 374,300	December 15, 1996 - December 14, 1999
20	R825420	Intrinsic Stable Isotopic Tracers of Environmental Contaminants	University of Virginia; Texas A&M University	Stephen A. Macko and Mahlon C. Kennicutt	$358,949	October 1, 1996 - September 30, 1999
21	U91-5352	The effects of legume and non-legume green manure crops on soil nitrogen, soil organic matter, and potato growth in a potato cropping system	University of Maine	Jeremy M. Plotkin	20,482	8/31/98
22	none	Mobilization and Fate of Inorganic Contaminants Due to Resuspension of Cohesive Sediment	Georgia Institute of Technology	T. W. Sturm, A. Amirtharajah, and C. L. Tiller	none	none

23	R825406	Bioavailability of Aromatic Hydrocarbons in Saturated Porous Media The Effects of Chemical Aging and Mass Transfer	Johns Hopkins University	Edward J. Bouwer and William P. Ball	$439,725	December 6, 1996 - December 5, 1999
24	R826269	Role of Reduced Sulfur Species in Promoting the Transformation of Triazines in Estuaries and Salt Marshes	Johns Hopkins University	A. Lynn Roberts and H. Salmun	$304,163	February 1, 1998 - January 31, 2001
25	R826136	Arsenicals, Glutathione Reductase and Cellular Redox Status	University of North Carolina at Chapel Hill; University of British Columbia, Vancouver	Miroslav Styblo, William R. Cullen, Melinda A. Beck	$322,936	September 1, 1997 - August 31, 2000
26	none	Contaminant Binding to the Humin Fraction of Soil Organic Matter	South Dakota State University	J.A. Rice	none	none
27	R824772	The Role of Colloidal Particles in the Transport of Chemicals Through an Agricultural Watershed	University of Virginia	George M. Hornberger	$500,000	November 1995 - October 1998
28	R81-9996	Colloid-Facilitated Transport of Heavy Metals in a Sludge-Amended Agroforestry System	Iowa State University	Michael Thompson	$142,330	2 years

29	none	Pollutant Fluxes to Aquatic Systems via Coupled Biological and Physicochemical Bed-Sediment Processes	Louisiana State University	D. D. Reible, K. T. Valsaraj, L. J. Thibodeaux, J.W. Fleeger	none	none
30	R825407	Partitioning Tracers for In-Situ Detection and Measurement of Nonaqueous Phase Liquids in Porous Media	University of Arizona	Mark Brusseau and N.T. Nelson	$246,339	November 1, 1996 - October 31, 1999
31	R825411	Experimental Validation and Reliability Evaluation of Multimedia Risk Assessment Models	Colorado School of Mines	Robert Siegrist, Helen Dawson, and Andrew Sheldon	$256,174	December 15, 1996 - December 14, 1998
32	R81-9772	Use of Gene Probes for Characterizing Soil Actinomycete Responses to Environmental Impacts	University of Idaho	Donald L. Crawford	none	2 years
33	none	Sediment Resuspension and Contaminant Transport in an Estuary	Louisiana State University	C. E. Adams, Jr., R. E. Ferrell, Jr.	none	none
34	none	Sources and Fates of Dissolved Organic Matter	none	H. Rodger Harvey (Mannino)	none	ending date

35	none	Transport and Biodegradation of Volatile Organic Chemicals in Terrestrial Ecosystems	Center for Ecological Health Research (Cal-Davis)	Kate Scow (Land, Air and Water Resources), Ben McCoy (Chemical Engineering and Material Science), and Dennis Rolston (Land, Air and Water Resources)	146,855	6/30/95 ending date
36	none	Field Scale Bioremediation: Relationship of Parent Compound Disappearance to Humification, Mineralization, Leaching, Volatilization of Transformation Intermediates	Utah State University	R.C. Sims	none	none
37	R823575	Bioconversion and Mass Transfer of Pesticides in a Model Wetlands System	Rutgers University	Lily Young	$59,720 (Year 1)	October 1995 - September 1998
38	R823426	Aerobic Cometabolism of Ether-bonded Compounds	Oregon State University	Michael R. Hyman	$358,953	October 1995 - September 1998

39	R825403	Rates of Arsenic Oxidation-Reduction Reactions in Contaminated Soils Effects on Arsenic Fate and Mobility	Montana State University	William P. Inskeep	$329,735	December 15, 1996 - December 14, 1999
40	R825389	Optimization of In-Situ Capture by Sorbents of Toxic Metals in Combustion Processes	University of Arizona	Jost O.L. Wendt	$293,068	October 1, 1996 - September 30, 1999
41	GF-95-01743	Laboratory and Field Investigations to Determine the Chemical Factors Affecting Zinc and Iron Transport at an Industrial Waste Facility	College of William and Mary	Michael L. Chasey	$25,150	7/1/95
42	R824778	The Role of Hg(II) Reduction and Chemical Speciation in Controlling the Concentration of Mercury and its Methylation in Natural Waters	Department of Geosciences, Princeton University	Franþois M.M. Morel	$349,950	November 1, 1995 - October 31, 1998
43	R826105	The Biochemistry and Molecular Biology of Microbial Selenate and Arsenate Transformation	Duquesne University, U.S. Geological Survey	John F. Stolz, Joseph McCormick, Ronald S. Oremland	$273,119	October 1, 1997 - September 30, 2000

44	R823388	Attenuation of Chromium in Alkaline Environments Chromium Substitution in Ettringites and C4AH12-Monosulfates	Oregon Graduate Institute	Carl D. Palmer	$176,630	October 1995 - September 1995
45	none	Controls on Metal Partitioning in Contaminated Sediments	Georgia Institute of Technology; Skidaway Institute of Oceanography	F. M. Saunders; H. L. Windom, R. A. Jahnke	none	none
46	R822626	Analysis of Halogenated Organic Particle-Scale Desorption Via Column Studies and C Solid State NMR Spectroscopy	Stanford University	Martin Reinhard	$177,916	September 1995 - August 1998
47	R825277	A Modeling and Experimental Investigation of Metal Release from Contaminated Sediments The Effects of Metal Sulfide Oxidation and Resuspension	Manhattan College	Dominic M. Di Toro and John D. Mahony	$544,463	November 15, 1996 - November 14, 1999
48	R826646	Determination of Binding Interactions Between Xenobiotic Chemicals and Soil	The Pennsylvania State University	Jean-Marc Bollag and Jerzy Dec	$408,775	October 1, 1998 - September 30, 2001

49	R 825414	Phytoremediation and Modeling of Land Contaminated by Hydrons	Texas A&M University	Clyde Munster, Malcolm Drew, and Yavuz Corapcioglu	$452,020	October 28, 1996 - October 27, 1999
50	U91-5398	Analytical Methods in Assessing Metal Speciation at a Brownfield Site	Northwestern University	Edward Peltier	34,000	9/23/98
51	none	Radon-222 Method for Locating and Quantifying Contamination by Residual Non-Aqueous Phase Liquids in the Subsurface	Oregon State University	Lewis Semprini	none	none
52	104UTA0454	A Risk-Based Decision Analysis Approach for Aquifers Contaminated with DNAPLs	University of Texas	Daene C. McKinney, Robert B. Gilbert	none	none
53	R825399	Processes Influencing the Mobility of Arsenic and Chromium in Reduced Soils and Sediments	University of Idaho	Scott Fendorf	$293,573	January 28, 1997 - January 27, 2000
54	none	Modeling Ecosystems Under Combined Stress	Center for Ecological Health Research (Cal-Davis)	Gerald Orlob	none	6/30/96 ending date

55	none	Redox Transformations of Inorganic Pollutants: Coupling to the Biogeochemical Matrix	Oregon State University	John C. Westall and James D. Ingle	none	none
56	none	Terrestrial - Agriculture	Center for Ecological Health Research (Cal-Davis)	Barry Wilson, Avian Sciences and Environmental Toxicology, Howard Ferris (Nematology), Michael Fry (Avian Sciences), Bill Lasley (Institute of Toxicology and Environmental Health), Kate Scow (Land, Air and Water Resources)	229,244	6/30/95 ending date
57	R825409	Investigation of the Entrapment and Surfactant Enhanced Recovery of Nonaqueous Phase Liquids in Heterogeneous Sandy Media	University of Michigan; Georgia Institute of Technology; Auburn University	Linda M. Abriola, Kurt D. Pennell, and Jacob H. Dane	$449,938	November 1, 1996 - October 31, 1999
58	R826651	The Particle Size Distribution of Toxicity in Metal-Contaminated Sediments	Colorado School of Mines,1 Colorado State University2	James Ranville,1 Donald Macalady,1 Phillipe Ross1, William Clements2	$372,795	September 1, 1998 - August 31, 2001

59	R825405	A Multi-Scale Investigation of Mass Transfer Limitations in Surfactant-Enhanced Aquifer Remediation	Michigan Technological University; University of Texas at Austin	Alex Mayer and Gary A. Pope	$299,792	October 1, 1996 - October 31, 1999
60	none	Particle Transport and Deposit Morphology at the Sediment/Water Interface	Rice University	Mark R. Wiesner	none	none
61	none	TCE Ground Water Attenuation in Severe Northern Climates	Utah State University	R.R. Dupont, D.L. Sorensen, M. Kemblowski, and D. Smith	none	none
62	none	Source Identification, Transformation, and Transport Processes of N-, O-, and S- Containing Organic Chemicals in Wetland and Upland Sediments	Louisiana State University	W. James Catallo	none	none
63	none	Scale-Dependent Production of Contaminant Binding Capacity in P/B Mesocosms	Multiscale Experimental Ecosystem Research Center (MEERC) at the University of Maryland Center for Environmental Science	Baker and Harvey (Ashley, Turner, Mannino)	none	none

64	none	Aquatic - Rivers and Estuaries	Center for Ecological Health Research (Cal-Davis)	David Hinton, Vet. Med.-Anatomy, Physiology and Cell Biology, Louis Botsford (Wildlife, Fish and Conservation Biology), Teresa Fan (Land, Air and Water Resources), Michael Fry (Avian Sciences), Richard Higashi (Bodega Marine Laboratory), Alan Jassby (Divi	450,987	6/30/95 ending date
65	none	Desorption of Nonpolar Organic Pollutants from Historically Contaminated Sediments and Dredged Materials	Rice University	Mason B. Tomson, Amy T. Kan, Gongmin Fu, Wei Chen, and Margaret A. Hunter	none	none

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Tabular Query Results of NCER Program and Solicitation Information

102 Abstracts are listed

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Amount	Proposed Start Date
1	R825278	Contaminated Sediments	University of California, Santa Barbara	Wilber Lick	$659,764	October 1, 1996 - September 30, 1999

2	R825397	Trace Metal Dynamics in Reducing Aquatic Sediments Determination of Adsorption and Coprecipitation on Undisturbed Sediment Core Sections Using a Plug-Through Reactor	Geogia Institute of Technology	Philippe Van Cappellen	$264,669	December 15, 1996 - December 14, 1999
3	none	Effect of Natural Dynamic Changes on Pollutant-Sediment Interaction	SOUTH AND SOUTHWESTERN HSRC	Tomson, Kan	none	January 1, 1991 - December 31, 2000
4	none	Controls on Metal Partitioning in Contaminated Sediments	Georgia Institute of Technology; Skidaway Institute of Oceanography	F. M. Saunders; H. L. Windom, R. A. Jahnke	none	none
5	none	Bioremediation of Contaminated Sediments and Dredged Material	South/Southwest HSRC	Ward, Hughes	none	January 1, 1991 - December 31, 2000
6	none	The Effect of Sediment Treatment on Sediment Metabolism Rates in Marsh Mesocosms	none	Cornwell (Liebert)	none	ending date

7	R826651	The Particle Size Distribution of Toxicity in Metal-Contaminated Sediments	Colorado School of Mines,1 Colorado State University2	James Ranville,1 Donald Macalady,1 Phillipe Ross1, William Clements2	$372,795	September 1, 1998 - August 31, 2001
8	none	Mechanisms governing the release of contaminants from sediments resuspended during dredging operations	GREAT LAKES AND MID-ATLANTIC HSRC	Davies, Voice	none	January 1, 1991 - December 31, 2000
9	R826200	Sediment Contamination Assessment Methods: Validation of Standardized and Novel Approaches	Wright State University, NOAA Great Lakes Environmental Research Laboratory, Colorado State University	G. Allen Burton, Jr., Daniel Krane, Thomas Tiernan, Peter Landrum, William Stubblefield and William Clements	$449,448	January 1, 1998 - December 31, 2000
10	U91-5359	The Effect of Estuarine Sediment-Phase Interactions on Aqueous Copper Sorption	College of William and Mary	Kea Dukenfield	27,623	8/25/98

11	R825277	A Modeling and Experimental Investigation of Metal Release from Contaminated Sediments The Effects of Metal Sulfide Oxidation and Resuspension	Manhattan College	Dominic M. Di Toro and John D. Mahony	$544,463	November 15, 1996 - November 14, 1999
12	R826201	Validation of Sediment Quality Criteria in Southeastern Estuaries	Marine Resources Research Institute, South Carolina Department of Natural Resources, Charleston, SC	Amy Huffman Ringwood	$449,794	December 1, 1997 - November 30, 2000
13	R825303	Bioavailability of Organic Contaminants in Estuarine Sediments to Microbes and Benthic Animals	Rutgers University	Gary L. Taghon, David S. Kosson and Lily Y. Young	$496,239	October 1, 1996 - September 30, 1999
14	none	Pollutant Fluxes to Aquatic Systems via Coupled Biological and Physicochemical Bed-Sediment Processes	Louisiana State University	D. D. Reible, K. T. Valsaraj, L. J. Thibodeaux, J.W. Fleeger	none	none

15	R825279	Meiofaunal Validation of EqP-Based Sediment Quality Criteria for Metal Mixtures in Estuarine Sediments Population to Community-Level Culturing Studies of Biogeochemical Controls on Bioavailability and Toxicity	University of South Carolina	G. Thomas Chandler and Thimothy J. Shaw	$484,376	January 1,1997 - December 31, 1999
16	GF-95-00166	Uptake of Sediment-Associated Contaminants by the Deposit-Feeding Amphipod Leptocheirus Plumulosus (Shoemaker): Effects of Natural Sediment Qualities	University of South Carolina	Christian Schlekat	$29,280	June 1, 1995
17	none	Sediment Metabolism in Marsh Ecosystems in Mesocosms and in Nature	none	Cornwell(Liebert)	none	none
18	none	Particle Transport and Deposit Morphology at the Sediment/Water Interface	Rice University	Mark R. Wiesner	none	none

19	none	Modelling Air Emissions of Organic Compounds from Contaminated Sediments and Dredged Materials	Louisiana State University; US Army Engineers Waterways Experiment Station; University of Minnesota	K. T. Valsaraj, L. J. Thibodeaux, D. D. Reible; J. M. Brannon, T. E. Myers, C. B. Price; J. S. Gulliver	none	none
20	none	Bioremediation of Sediments Contaminated with Polynuclear Aromatic Hydrocarbons	Rice University	J. B. Hughes and C. H. Ward	none	none
21	none	Physical and Biological Scaling of Benthic-Pelagic Coupling	none	Newell and Sanford (Porter)	none	none
22	U91-5362	Effects of logging and road building on hillslope erosion, stream discharge, and water quality	University of Oregon	Rebecca Kelly Robinson Ambers	34,000	9/28/98
23	none	Bioavailability of Aged Residues in Contaminated Soils	Great Lakes and Mid-Atlantic HSRC	Boyd	none	January 1, 1991 - December 31, 2000
24	R824771	The Role of Long-Lived Zooplankton Diapausing Eggs Response and Recovery of Impacted Lakes	Cornell University	Nelson G. Hairston, Jr., and Edward L. Mills	$350,000	March 1996 - February 1999

25	R826108	Phylogenetic Analysis of Microbial Communities in Contaminated Nearshore Marine Sediments	University of Washington	Russell P. Herwig	$370,446	September 1, 1997 - August 31, 2000
26	none	Mobilization and Fate of Inorganic Contaminants Due to Resuspension of Cohesive Sediment	Georgia Institute of Technology	T. W. Sturm, A. Amirtharajah, and C. L. Tiller	none	none
27	none	Pollutant Fluxes to Aquatic Systems via Coupled Biological and Physicochemical Bed-Sediment Processes	SOUTH AND SOUTHWESTERN HSRC	Reible, Thibodeaux, Valsaraj, Fleeger	none	January 1, 1991 - December 31, 2000
28	R825220	Biogeochemical Control of Heavy Metal Speciation and Bioavailability in Contaminated Marine Sediments	Harvard University	James Shine	$453,630	December 2, 1996 - December 1, 2001
29	R822444	Importance of Reductive Dechlorination in Chesapeake Bay Sediments Role of Sulfate Respiration	University of Maryland, University of Maryland, University of Maryland CEES/CBL, BERL/Academy of Natural Sciences	Douglas G. Capone, Joel E. Baker, and Cynthia C. Gilmour	$286,703	October 1995 - September 1998

30	none	Freshwater Bioturbators in Riverine Sediments as Enhancers of Contaminant Release	Alcorn State University	A. D. W. Acholonu	none	none
31	none	Sediment Resuspension and Contaminant Transport in an Estuary	Louisiana State University	C. E. Adams, Jr., R. E. Ferrell, Jr.	none	none
32	none	Investigation on the Fate and Biotransformation of Hexachlorobutadiene and Chlorobenzenes in a Sediment-Water Estuarine System	SOUTH AND SOUTHWESTERN HSRC	Pavlostathis	none	January 1, 1991 - December 31, 2000
33	R826199	Application of Sediment Quality Criteria for Metals to a Montane Lotic Ecosystem: Field Validation During Reclamation of a Copper Mine Causing Acid Mine Drainage	University of Wyoming	Joseph S. Meyer, Jeffrey A. Lockwood, Richard W. Rockwell	$449,558	April 1, 1998 - March 31, 2001
34	none	Characterization of PAH Degrading Bacteria in Coastal Sediments	Alabama A&M University	M. G. Tadros	none	none

35	none	Desorption of Nonpolar Organic Pollutants from Historically Contaminated Sediments and Dredged Materials	Rice University	Mason B. Tomson, Amy T. Kan, Gongmin Fu, Wei Chen, and Margaret A. Hunter	none	none
36	R825286	Effectiveness of Regulatory Incentives for Sediment Pollution Prevention Evaluation Through Policy Analysis and Biomonitoring	University of North Carolina	Seth Reice and Richard N. Andrews	$556,981	October 15, 1996 - October 14, 1999
37	none	The Role of Competitive Adsorption on Suspended Sediments in Determining Partitioning and Colloidal Stability	Prairie View A&M University	H. G. McWhinney	none	none
38	R826198	Site-specific Validation of a Chronic Toxicity Test with the Amphipod Hyalella azteca : An Integrated Study of Heavy Metal Contaminated Sediments in Peak Creek, Virginia	Virginia Polytechnic Institute and State University	John Cairns, Jr., B. R. Niederlehner, Reese Voshell, and Eric P. Smith	$ 211,116	January 2, 1998 - December 31, 1999
39	none	Microbiological Processes in Sediments	Center for Ecological Health Research (Cal-Davis)	Douglas Nelson	none	6/30/95 ending date

40	U91-5373	Studies of the environmental fate of sediment-associated organic contaminants in marine systems	State University of New York	P. Lee Ferguson	31,342	8/31/98
41	R825449	Microbial Community Dynamics of PCB Dechlorination in Sediments	New York State Department of Health	G-Yull Rhee, Roger C. Sokol and Ellen Braun-Howland	$508,964	January 1, 1997 - December 31, 1999
42	none	Use of chemical oxidants for the degradation of chlorinated benzenes and biphenyls in aqueous systems and sediments	GREAT LAKES AND MID-ATLANTIC HSRC	Masten, Davies	none	January 1, 1991 - December 31, 2000
43	none	Isolating Organisms Which Dechlorinate Polychlorinated Biphenyls (PCBs)	Great Lakes and Mid-Atlantic HSRC	Tiedje	none	January 1, 1991 - December 31, 2000
44	none	An Investigation of Chemical Transport from Contaminated Sediment through Porous Containment Structures	SOUTH AND SOUTHESTERN HSRC	Reible, Thibodeaux, Valsaraj	none	January 1, 1991 - December 31, 2000

45	U91-5365	Synthetic organic agrochemicals (herbicides, fungicides, and pesticides)	Ohio State University	Theodore Paul Klupinski	29,332	9/23/98
46	none	A Short Course on Remediation of Contaminated Soils and Sediments	GREAT PLAINS ROCKY MOUNTAIN HSRC	Kelly, Keefer, Rohde, Woldt	none	January 1, 1991 - December 31, 2000
47	R826106	Teratogenicity of Heavy Metals to Larval Chironomids (Diptera chironomidae)	Washington State University	Barry C. Moore, Royston Filby and John Schaumloffel	$125,661	November 1, 1997 - October 31, 2000
48	none	The Application of Plant Biotechnology in Bioremediation of Contaminated Sediments	Alabama State University	S.V. Sahi	none	none
49	none	Contaminant Transport Across Cohesive Sediment Interfaces	SOUTH AND SOUTHWESTERN HSRC	Amirtharajah, Sturm	none	January 1, 1991 - December 31, 2000
50	U91-5351	The Efficacy of Oxidative Coupling for Promoting In-Situ Immobilization of Phenolic Compounds in Contaminated Soil and Sediment Systems	University of Michigan, Environmental and Water Resources Engineering and Chemical Engineering	T. Michael Keinath II	34,000	9/8/98

51	none	The History of Anthropogenic Effects Recorded in Cores	Center for Ecological Health Research (Cal-Davis)	Peter Richerson, Tom Suchanek	none	6/30/95 ending date
52	R821195	Ion-Pair/Supercritical Fluid Extraction and Derivatization for Polar Organic Pollutant Analysis	Oregon State University	Jennifer Field	$392,272	September 1995 - September 1998
53	none	Mercury and Iron Biogeochemistry	Center for Ecological Health Research (Cal-Davis)	Thomas Suchanek, Peter Richerson	none	6/30/95 ending date
54	R825151	Trophic Transfer of Atmospheric and Sedimentary Contaminants Into the Great Lakes Fisheries Controls on the Ecosystem Scale Response Times	University of Maryland; Michigan State University	Joel E. Baker; Nathaniel E. Ostrom,	$617,254	October 1, 1996 - September 30, 1999
55	none	Mobility and Transport of Radium in Sediment and Waste Pits	SOUTH AND SOUTHWESTERN HSRC	DeLaune, Pardue, Patrick, Lindau	none	January 1, 1991 - December 31, 2000
56	R825399	Processes Influencing the Mobility of Arsenic and Chromium in Reduced Soils and Sediments	University of Idaho	Scott Fendorf	$293,573	January 28, 1997 - January 27, 2000

57	none	Biochemical Indicator Patterns and their Linkages to Adverse Effects on Benthic Invertebrate Patterns	Center for Ecological Health Research (Cal-Davis)	Teresa Fan, Richard Higashi	none	6/30/96 ending date
58	R825353	Digestive Solubilization of Sediment-Sorbed Contaminants A Comparison of In Vitro and In Vivo Processes	University of California, Berkeley; University of Maine	Donald P. Weston, Larry M. Mayer, and Deborah L. Penry	$374,945	December 1, 1996 - November 30, 1999
59	none	Characterization of Laguna Madre Contaminated Sediments	Texas A&M University - Kingsville	A. N. S. Ernest	none	none
60	none	Source Identification, Transformation, and Transport Processes of N-, O-, and S- Containing Organic Chemicals in Wetland and Upland Sediments	Louisiana State University	W. James Catallo	none	none
61	R826202	Assessment and Control of Arsenic Mobility in Contaminated Sediments	California Institute of Technology	Janet G. Hering	$288,049	October 1, 1997 - September 30, 2000

62	R826282	An Integrated Watershed Approach to Evaluate and Model Ecosystem Effects of Erosion and Pollutant Transport in Urbanized Subalpine Landscapes	University of California	Charles R. Goldman, John E. Reuter, Alan D. Jassby, M. Levant Kavvas and Geoffrey Schladow	$879,376	June 1, 1998 - May 31, 2001
63	R826940	CISNet San Pablo Bay Network of Environmental Stress Indicators	University of California, Davis	S.G. Schladow, T. M. Young, I. Werner, B. Thompson, J. Collins, J. Davis, S. Siegel, N. Nur, D. Schoellhamer	$599,764	October 1, 1998 - September 30, 2001
64	R825962	A Comprehensive Investigation of the Effects of Organic Geochemistry on the Sorption-Desorption, Sequestration, and Bioavailability of Mixed Organic Contaminants in Subsurface Systems	The University of Michigan	Walter J. Weber, Jr.	$440,748	January 1, 1998 - December 31, 2000
65	none	Evaluation of Placement and Effectiveness of Sediment Caps	Louisiana State University	D. D. Reible, K. T. Valsaraj and L. J. Thibodeaux	none	none

66	R822626	Analysis of Halogenated Organic Particle-Scale Desorption Via Column Studies and C Solid State NMR Spectroscopy	Stanford University	Martin Reinhard	$177,916	September 1995 - August 1998
67	R825418	Effect of Spatial Heterogeneity on the Natural Bioattenuation of Dissolved Hydrocarbons	North Carolina State University	Morton A. Barlaz and Robert C. Borden	$449,052	October 28, 1999 - October 27,1999
68	R824776	Resistance of Communities to Chronic Haloaromatic Contamination from Biogenic and Anthropogenic Sources	University of South Carolina	David E. Lincoln, Sarah A. Woodin, Charles R. Lovell, V. Pernell Lewis	$470,000	January 1996 - December 1998
69	GF-95-01732	Reductive Dechlorination and Degradation of Model Chlorophenols in Marine and Estuarine Sediments	University of Maryland	Kimberly Warner	$23,150	6/95

70	R826307	Fate and Effects of Gymnodinium breve Toxins in the Marine Environment, Phase 1	Florida Department of Environmental Protection; Florida Marine Research Institute; and National Oceanic and Atmospheric Administration, Beaufort Laboratory	Karen A. Steidinger, Carmelo R. Tomas, and Patricia A. Tester	$33,000	January 15, 1998 - January 14, 1999
71	R825959	The Influence of Nanoporosity in Soils from Contaminated Sites on Hydrocarbon Desorption Kinetics and Bioavailability	The Connecticut Agricultural Experiment Station , New Haven; and Princeton University	Joseph J. Pignatello and Alexander V. Neimark	$436,399	January 1, l998 - December 31, 2000
72	R825751	Effects of natural and anthropogenic processes on Tillamook Bay and its watershed: An integrated process study and land-use perspective	Oregon State University	James McManus, Paul Komar, M.S. Jesse Ford, and Courtland Smith	$749,995	October 1, 1997 - September 30, 2000
73	R82-0944	Sorption and Transport of HOCs in Aquatic Systems	University of California, Santa Barbara	Wilburt Lick	$267,993	2 years
74	none	Nutrient Loading	Center for Ecological Health Research (Cal-Davis)	Charles Goldman	none	6/30/95 ending date

75	R824778	The Role of Hg(II) Reduction and Chemical Speciation in Controlling the Concentration of Mercury and its Methylation in Natural Waters	Department of Geosciences, Princeton University	Franþois M.M. Morel	$349,950	November 1, 1995 - October 31, 1998
76	R823487	Evaluation of Rangeland Stream Condition and Recovery Using Physical and Biological Assessments of Nonpoint Source Pollution	Sierra Nevada Aquatic Research Laboratory and Marine Science Institute, University of California, Santa Barbara	David B. Herbst	$249,647	September 1, 1995 - August 31, 1998
77	R825439	Sediment Contaminant Effects on Genetic Diversity New Approach using DNA Analyses of Meiobenthos	University of South Carolina	Bruce C. Coull, G. Thomas Chandler and Joseph M. Quattro	$372,642	February 24, 1997 - February 23, 2000

78	R825381	Integrated Urban Watershed Analysis The Los Angeles Basin and Coastal Environment	University of California-Los Angeles; Environmental Health Sciences; UCLA	Richard Turco; Richard Ambrose; Richard Berk, Johannes Feddema, Peggy Fong, Graham Forrester, Robert Fovell, Sheldon Friedlander, Glen MacDonald, James McWilliams, Antony Orme, Marilyn Raphael, Melissa Savage, Michael Stenstrom, Keith Stolzenbach, Irwin S	$1,200,000	December 1, 1996 - November 30, 1999
79	GF-95-00234	Assessing the Exposure of Winter Flounder to Genotoxic Compounds in Boston Harbor and Massachusetts Bay by Measuring Carcinogen-DNA Adducts	none	Phanendrakumar Penmetsa	$24,786	June, 1995
80	R825960	Dependence of Metal Ion Bioavailability on Biogenic Ligands and Soil Humic Substances	University of California-Davis	Richard M. Higashi, Teresa W-M. Fan, and Andrew N. Lane	$345,816	January 1, 1998 -December 31, 2001

81	R825246	Reducing Uncertainty in Estimating Toxaphene Loading to the Great Lakes	University of Minnesota; Indiana University	Deborah L. Swackhamer and Ronald A. Hites	$296,996	November 15, 1996 - November 14, 1999
82	R825355	Developing a New Monitoring Tool for Benthic Organisms in the Gulf of Mexico Loss of Genetic Variability in Meiofaunal Populations	University of Texas at Austin	Paul A. Montagna	$243,469	December 1, 1996 - November 30, 1998
83	R82-1627	Envirommental Monitoring and assessment of Wetlands Using Sedimentary Diatoms from Present and Past	University of Louisville	R. Jan Stevenson	$255,798	2 years
84	104LSU0435	Sonochemical Treatment of Hazardous Organic Compounds II: Process Optimization and Pathway Studies	Louisianna State University	Thomas Junk, W. James Catallo	none	none
85	R823873	Ecological Assessment of the Phototoxic Polycyclic Aromatic Hydrocarbon Fluoranthene in Freshwater Systems	Miami University (Ohio); Wright State University	James T. Oris and Sheldon I. Guttman, and G. Allen Burton	$505,274	October 1995 - October 1998

86	none	Chlorinated Hydrocarbons	Center for Ecological Health Research (Cal-Davis)	Charles Goldman, Fumio Matsumura	none	6/30/95 ending date
87	R823575	Bioconversion and Mass Transfer of Pesticides in a Model Wetlands System	Rutgers University	Lily Young	$59,720 (Year 1)	October 1995 - September 1998
88	R825396	Surface Chemistry of Oil/Soil/Water Systems for Improved Oil Removal from Contaminated Soil by Air-Sparged Hydrocyclone Flotation	University of Utah	Jan D. Miller and Jaroslaw Drelich	$315,706	January 20, 1997 - January 19, 2000
89	R827084	The Development of a DNA Based Specific Assay for Pfiesteria piscicida in Water and Sediments	University of Maryland Biotechnology Institutes, Baltimore1 and University of North Carolina, Greensboro2	David Oldach1 and Parke Rublee2	$709,537	October 8, 1998 - October 7, 2001

90	U91-5327	Investigation of the reductive transformation of chlorinated solvents in iron reducing sediments and to assess the relative contributions of biological and abiotic reactions to dechlorination.	University of Michigan	Mike McCormick	30,374	9/1/98
91	R826791	ECOHAB: DNA-Based Molecular Diagnostics for Pfiesteria-Complex Organisms in Chesapeake Bay	Virginia Institute of Marine Science, The College of William and Mary	Kimberly S. Reece, Eugene M. Burreson, and Nancy A. Stokes	$279,202	October 1, 1998 - September 30, 2001
92	R825368	Field Determination of Organics from Soil and Sludge using Sub-critical Water Extraction Coupled with Solid Phase Extraction	University of North Dakota	Steven B. Hawthorne	$279,935	October 1, 1996 - September 30, 1999
93	none	Anaerobic Biodegradation of 2,4,6-Trinitrotoluene and other Nitroaromatic Compounds by Clostridium Acetobutylicum	Rice University	J.Hughes , F. Rudolph , G. Bennett	none	none

94	R826941	The Choptank River: A Mid-Chesapeake Bay Index Site for Evaluating Ecosystems Responses to Nutrient Management	University of Maryland Center for Environmental Science	Thomas C. Malone, William C. Boicourt, Jeffrey C. Cornwell, Lawrence W. Harding, Jr., and J. Court Stevenson	$596,097	September 15, 1998 - September 14, 2001
95	none	Remediation of Soils Contaminated with Wood-Treatment Chemicals	University of Missouri; U.S. Army Corps of Engineers	R.K. Bajpai, S.K. Banerji, and R.K. Puri; M.E. Zappi	none	none
96	R827133	Understanding Seasonal Variation of Bioavailability of Residual NAPL in the Vadose Zone	University of California, Santa Barbara	Patricia Holden and Arturo A. Keller	$425,000	October 1, 1998 - September 30, 2001
97	R823526	Catalytic Dehalogenation of PCBs and Pesticides in Supercritical Fluids	University of Georgia Research Foundation and the Department of Chemistry at the University of Georgia	R. Bruce King	$189,104	October 1, 1995 - September 30, 1997
98	none	Scaling Responses of Pelagic-Benthic Ecosystems: Variations in Light Intensity, Wall Periphyton, and Trophic Complexity	none	Kemp (Chen and Petersen)	none	ending date

99	none	Fish in MEERC: Top-Down Control, Bioenergetic Models and Experimental Protocols	none	Houde and Madon	none	none
100	none	Regional Hydrologic Modeling	Center for Ecological Health Research (Cal-Davis)	M. Levent Kavvas (Civil and Environmental Engineering) and Su-tzai Soong (Land, Air and Water Resources)	111,838	6/30/95 ending date
101	none	Environmental Fate and Risk Assessment Tool (EFRAT)	Michigan Technological University	David R. Shonnard, Alex S. Mayer, Kurtis G. Paterson, and Martin T. Auer	none	none
102	none	Transport and Biodegradation of Volatile Organic Chemicals in Terrestrial Ecosystems	Center for Ecological Health Research (Cal-Davis)	Kate Scow (Land, Air and Water Resources), Ben McCoy (Chemical Engineering and Material Science), and Dennis Rolston (Land, Air and Water Resources)	146,855	6/30/95 ending date

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Tabular Query Results of NCER Program and Solicitation Information

3 Abstracts are listed

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Amount	Proposed Start Date
1	68D60030	Signal Amplification of Nonextractive Immunoassay	Fayette Environmental Services, Inc.	Dr. Rhys N. Thomas	$70,000	September 1996 - March 1997
2	68D70060	Signal Amplification of Nonextractive Immunoassay	Fayette Environmental Services, Inc.	Dr. Rhys N. Thomas	$225,000	September 1997 - September 1999
3	68D60023	Phosphate - Induced Metal Stabilization	NW Environmental Services, Testing & Training	Dr. James Conca	$66,307	September 1996 - March 1997

Collections that were searched are:
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Return to top of this document.

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Tabular Query Results of NCER Program and Solicitation Information

21 Abstracts are listed

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Amount	Proposed Start Date
1	104UAL0446	Soil Remediation by Agglomeration with Petroleum Coke	University of Alabama	David Arnold, Robert A. Griffin	none	none
2	none	Design and Operation of Biological Activated Carbon Adsorption Systems	Great Lakes and Mid-Atlantic HSRC	Voice	none	January 1, 1991 - December 31, 2000

3	none	Phase equilibria and transport properties of surfactant systems of interest to soil remediation	GREAT LAKES AND MID-ATLANTIC HSRC	Abriola, Weber	none	January 1, 1991 - December 31, 2000
4	none	Microbial Degradation of Toluene Under Sulfate-Reducing Conditions: The Role of Iron	Western Region HSRC	Gribic'-Galic', Reinhard	none	January 1, 1991 - December 31, 2000
5	none	Efficiency of surfactant remediation scenarios for non-aqueous phase liquid (NAPL) cleanup near the water table	GREAT LAKES AND MID-ATLANTIC HSRC	Wallace, Wiggert	none	January 1, 1991 - December 31, 2000
6	R821114	Reformulated Gasoline Transport and Clean-up of Spills to the Subsurface	Clarkson University, Potsdam, NY	Susan E. Powers	$240,479	October 1, 1995 - September 30, 1998
7	R826242	Ecotoxicity Risks Associated with the Land Treatment of Petrochemical Wastes	Oklahoma State University	Robert L. Lochmiller and Charles W. Qualls, Jr.	$406,229	October 1, 1997 - September 30, 2000
8	R825407	Partitioning Tracers for In-Situ Detection and Measurement of Nonaqueous Phase Liquids in Porous Media	University of Arizona	Mark Brusseau and N.T. Nelson	$246,339	November 1, 1996 - October 31, 1999

9	none	Surfactant Selection Protocol for Ex Situ Soil Washing	University of Oklahoma	Dr. David A. Sabatini, Dr. Jeffrey H. Harwell	none	none
10	R825396	Surface Chemistry of Oil/Soil/Water Systems for Improved Oil Removal from Contaminated Soil by Air-Sparged Hydrocyclone Flotation	University of Utah	Jan D. Miller and Jaroslaw Drelich	$315,706	January 20, 1997 - January 19, 2000
11	none	In-Situ Anaerobic Biodegradation of BTEX Hydrocarbon Contaminant	Northern Arizona University	Aregai Tecle	none	none
12	R 825197	Development of an Integrated End-To-End Marine Contaminant Management System	University of South Florida; Florida Department of Environmental Protection	Mark E. Luther, Boris Galperin, Edward S. Van Vleet, Nancy J. Schmidt, Mark S. Vincent, and Chris Friel	$588,777	October 1, 1996 - September 30, 1999
13	none	Evaluation of Strategies for Full Scale Bioremediation of the Seal Beach Site Using Anaerobic Microbial Processes	Stanford University	Martin Reinhard, Gary Hopkins, and Peter Kitanidis	none	none

14	none	Assessment of Surfactant-Enhanced Bioremediation for Soils/Aquifers Containing Polycyclic Aromatic Hydrocarbons	Princeton University	Peter R. Jaffe	none	none
15	none	Evaluation of Biosparging Performance and Process Fundamentals for Site Remediation	Utah State University	R.R. Dupont, D.L. Sorensen, and W.J. Doucette	none	none
16	none	Evaluation and Modeling of Subsurface Biobarrier Formation and Persistence	Montana State University; University of Wyoming	A.B. Cunningham; B.M. Chen	none	none
17	none	Modeling for Design and Testing of Treatment and Remediation Technologies for Aquifer Soils Contaminated with Organic Waste Chemicals	University of Colorado	T.H. Illangasekare	none	none
18	none	Bioremediation of Sediments Contaminated with Polynuclear Aromatic Hydrocarbons	Rice University	J. B. Hughes and C. H. Ward	none	none

19	none	Development of a Phytoremediation Handbook: Considerations for Enhancing Microbial Degradation in the Rhizosphere	none	Todd A. Anderson	none	none
20	R81-9417	Hydrocarbon Degrading	University of Alaska	Don K. Button	$352,201	3 years
21	R8255961	Bioavailability and Biostabilization of Multicomponent Nonaqueous Phase Liquids in the Subsurface	University of Colorado	Tissa Illangasekare, Anuradha Ramaswami, and Anglea Bielefeldt	$433,441	October 1, l997 - September 30, 2000

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Return to top of this document.

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Tabular Query Results of NCER Program and Solicitation Information

4 Abstracts are listed

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Amount	Proposed Start Date
1	68D98138	Development of an Improved BIO-SOK for Use in Bilge to Reduce Nonpoint Source Pollution	GMS Technologies	Dr. W. Michael Griffin	$69,932	September 1998 - March 1999
2	68D30136	Fixation of Lead and Select Organic Compounds Using a Cold Mix Asphalt Process	Eckenfelder, Inc.	Dr. Ann N. Clarke	$50,000	September 1993 - March 1994

3	68D10046	Develop Biodegradable, Non-Toxic, Oleophilic Hydrophobic Sorbent for Oil Spill Cleanup	Sea Sweep, Inc.	Thomas B. Reed	$50,000	September 1991 - March 1992
4	68D10034	Safe, Environmentally Acceptable Resources Recovery from Oil Refinery Sludge	Calderon Energy Company of Bowling Green, Inc.	Albert Calderon	$49,724	September 1991 - March 1992

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Return to top of this document.

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Tabular Query Results of NCER Program and Solicitation Information

86 Abstracts are listed

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Amount	Proposed Start Date
1	none	Introduction to Waste Minimization Technology and Applications	GREAT PLAINS ROCKY MOUNTAIN HSRC	Hiskey	none	January 1, 1991 - December 31, 2000
2	none	Fostering Pollution Prevention in Mid-Sized Firms: Strategies for More Effective Technology Transfers	SOUTH AND SOUTHWESTERN HSRC	Elliott, Foley	none	January 1, 1991 - December 31, 2000

3	none	Transfer of Manufacturing Pollution Prevention Technology	GREAT PLAINS ROCKY MOUNTAIN HSRC	Edwards	none	January 1, 1991 - December 31, 2000
4	R824747	Development of a Model Pollution Prevention Diffusion Partnership for Small Business	University of North Carolina-Charlotte	Randall D. Forsythe and Alisa B. Wickliff	$180,000	October 1, 1995 - September 30, 1997
5	R824750	Environmental Technology Initiative '95	Maryland Center for Environmental Training, Charles County Community College	Jake Bair	$119,824	October 1, 1995 - September 30, 1997
6	none	Waste Management: Development of Pollution Prevention Educational Materials for Farms and Small Acreages	GREAT PLAINS ROCKY MOUNTAIN HSRC	Niemeyer, Woldt, Dahab, Grisso	none	January 1, 1991 - December 31, 2000
7	none	Formulation and Development of a Short Course on Pollution Prevention	NORTHEAST HSRC	Petrides	none	January 1, 1991 - December 31, 2000
8	R82-1312	Economics of Transition of Sustainable Farming	University of Maryland College Park	Erik Lichtenberg	$219,788	2 years

9	R824751	Pollution Prevention Information Dissemination (P2ID) Printing Industry Project	Northeast States Pollution Prevention Roundtable, Northeast Waste Management Officials' Association	Terri Goldberg	$160,000	October 1, 1995 - September 30, 1997
10	none	Louisiana Environmental Leadership Pollution Prevention Program	Urban Waste Management & Research Center	Harry Freeman, Director	none	none
11	R824741	Pollution Prevention Technology Transfer for the Printing Industry	Institute of Advanced Manufacturing Sciences, Inc. (IAMS)	Sally Clement and Larry Kramer	$259,284	October 1995 - October 1997
12	none	LaTAP, Louisiana Technical Assistance Program: Pollution Prevention for Small Businesses	Urban Waste Management & Research Center	Albert T. Knecht, PH.D., Associate Professor, Civil and Environmental Engineering	none	none
13	R824742	Encouraging Industry Environmental Technology Innovation Through the Implementation of Environmental Management Systems	NSF International; Industrial Technology Institute	Craig Diamond and Christine Branson	$187,802	October 1, 1995 - September 30, 1997
14	none	Pollution Prevention Process Simulator	Michigan Technological University	B.A. Barna, T.N. Rogers, P.P. Radecki	none	none

15	R823360	Pollution Prevention and Enhancement of Biodegradability via Isomer Elimination in Consumer Products	University of Missouri-Rolla	Daniel W. Armstrong	$269,020	October 1, 1995 - September 30, 1998
16	R824746	Pollution Prevention Assistance to Small Manufacturers in Automotive Supply Chains	NIST Great Lakes Manufacturing Technology Center; CAMP, Inc.	Lawrence Boyd, Gus Eskamani and Amy Whitehead	$245,000	October 1, 1995 - September 30, 1997
17	R826118	Development of Biotechnology to Sustain the Production of Environmentally Friendly Transportation Fuel Ethanol from Cellulosic Biomass	Purdue University	Nancy W. Y. Ho	$359,877	November 1, 1997 - October 31, 2000
18	R825327	Pollution Prevention with the Use of Molecular Assemblies	University of Massachusetts at Boston	John C. Warner	$344,713	October 15, 1996 - October 14, 1999
19	none	Pollution Prevention Assessment of an Electrodeposition Coating and Pre-treatment System	University of Minnesota	P.L. Brezonik	none	none
20	R824738	Demanufacturing Partnership Program Located at Rutgers University	Rutgers University, Newark	Joan Mahon	$200,000	October 1, 1995 - September 30, 1997

21	R826739	New Methods for Assessment of Pollution Prevention Technologies: Integration of Probabilistic Process Modeling and Design; Life-Cycle Analysis; and Regional Environmental Benefits Assessment	North Carolina State University	H. Christopher Frey and Morton A. Barlaz	$180,000	October 1, 1998 - September 30, 1999
22	none	Development of Pollution Prevention Program for Small Quantity Generators in EPA Regions VII and VIII	GREAT PLAINS ROCKY MOUNTAIN HSRC	Dahab, Woldt	none	January 1, 1991 - December 31, 2000
23	R825338	Biocatalytic Polymer Synthesis in and from Carbon Dioxide for Pollution Prevention	University of Pittsburgh	Alan Russell and Eric Beckman	$180,000	October 1, 1996 - September 30, 1999
24	084LUB7139	Pollution Prevention by Process Modification	Lamar University	Jack R. Hopper, Carl L. Yaws	none	none
25	094LSU0410	Pollution Prevention by Process Modification Using On-Line Optimization	Louisianna State University	Ralph W. Pike	none	none

26	none	Demonstration of In-Situ Bioremediation of Chlorinated Aliphatics by Methanotrophs at St. Joseph (Supported by the Gas Research Institute and the U.S. EPA Biosystems Program)	WESTERN REGION HSRC	McCarty, Roberts, Gorelick, Kitanidis, Semprini	none	January 1, 1991 - December 31, 2000
27	104UHH2345	Life-Cycle Environmental Costing for Managing Pollution Prevention in the Chemical and Petroleum Refining Industries: A Cross-Border Approach	University of Houston	Beth Beloff, David Shields, Miriam Heller	none	none
28	none	Pollution Prevention In Carc Coatings Using The Supercritical Carbon Dioxide (UNICARB) Process	University of Detroit Mercy	H. B. Bai, M. J. Chen, H. X. Xiao, B. Suthar, K. C. Frisch, D. Klempner	none	none
29	R825330	Photochemical Alternatives for Pollution Prevention	Iowa State University; Virginia Polytechnical Institute	George Kraus and James Tanko	$400,000	October 1, 1996 - September 30, 1999
30	R826123	Development of Green Chemistry for Syntheses of Polysaccharide-Based Materials	Wayne State University	Peng George Wang, Wenhua Xie, Jun Li, Yongsheng Chen	$180,000	November 1, 1997 - October 31, 2000

31	R826731	Continuous Micro-Sorting of Complex Waste Plastics Particle Mixtures Via Liquid-Fluidized Bed Classification (LFBC) for Waste Minimization and Recycling	Brown University	J.M. Calo	$120,000	February 1, 1999 - January 31, 2001
32	R824732	Intelligent Decision Making and System Development for Comprehensive Waste Minimization in the Electroplating Industry	Wayne State University	Yinlun Huang	$100,000	September 1, 1995 - September 30, 1997
33	104UAL4276	Waste Minimization in the Magnetic Tape Industry: Waterborne Coating Formulations for Magnetic Tape Manufacture	University of Alabama	David E. Nikles, Alan M. Lane	none	none
34	R825331	Pollution Prevention in Industrial Condensation Reactions	Research Triangle Institute	James J. Spivey and Makarand R. Gogate	$359,906	October 1, 1996 - September 30, 1999
35	none	Clean Chemicals Manufacturing Integrated Synthesis and Processing of Chemicals	University of Minnesota	P. Daoutidis, R.W. Carr, E.L. Cussler, L.D. Schmidt and F. Srienc	none	none

36	R824737	Evaluation and Demonstration of Wet Cleaning Alternatives to Perchloroethylene-based Garment Care	University of California, Los Angeles	Robert Gottlieb	$129,968	October 1, 1995 - June 1997
37	R824752	Policy Frameworks to Stimulate Environmental Technology in the Computer and Electronics Sector	The World Resources Institute	Dr. Daryl Ditz and Ms. Frances Irwin, co-investigators	$240,000	October 1, 1995 - September 30, 1997
38	none	Process Simulation and Control for Waste Minimization	Michigan Technological University	K. Wilson and N. Kim	none	none
39	none	Intelligent Process Design and Control for the Minimization of Waste Production and Treatment of Hazardous Waste	Kansas State University	L.T. Fan	none	none
40	R826165	Spouted Bed Electrolytic Recovery of Metals for Source Reduction and Waste Minimization	Brown University	Joseph M. Calo	$291,499	January 14, 1998 - January 13, 2001

41	R824748	Regulation, Business, and Sustainable Development The Management of Environmentally Conscious Technological Innovation Under Alternative Market Conditions	University of Oklahoma	Mark Sharfman, Mark Meo and Rex Ellington	$244,955	October 1, 1995 - September 30, 1997
42	R825325	Nearcritical Water For Environmentally Benign Chemical Processing	School of Chemical Engineering and Chemistry, Georgia Institute of Technology	C.A. Eckert and C.L. Liotta	$180,000 (EPA share, additional $180,000 from NSF)	October 1, 1996 - September 30, 1999
43	R825329	Environmental Hazard Assessment for Computer-Generated Alternative Syntheses	Brandeis University	James B. Hendrickson	$275,235	October 15, 1996 - September 14, 1999
44	none	The Design Option Ranking Tool	Michigan Technological University	B.A. Barna and T.N. Rogers	none	none
45	R826120	Catalysts for Environmentally Benign Organic Reactions in Water	The Ohio State University	T. V. (Babu) RajanBabu	$280,000	November 1, 1997 - October 31, 2000
46	R824562	Encouraging Innovation Through Umbrella Permitting	Research Triangle Institute	none	$239,998	October 1995 - September 1997

47	R826733	Environmentally Benign Polymeric Packaging from Renewable Resources	Colorado School of Mines	John R. Dorgan, Daniel M. Knauss	$275,000	November 1, 1998 - October 31, 2001
48	none	Process Simulation and Control for Waste Minimization	Michigan Technological University	T. B. Co, N. Kim, D. W. Hubbard, and T. N. Rogers	none	none
49	none	Pollution Prevention and Remediation through Photocatalytic Oxidation Processes	Michigan Technological University	J.C. Crittenden, D.W. Hand, V.H. Selzer, D.L. Perram, Y. Zhang, and B. Liu	none	none
50	R826121	Tailored Solvents for Pollution Source Reduction in Pharmaceutical and Fine Chemical Processing	Massachusetts Institute of Technology	T. Alan Hatton	$180,000	November 1, 1997 - October 31, 2000
51	R825324	A Novel Pressure-Exchange Ejector Refrigeration System with Steam as the Refrigerant	The George Washington University	Catherine Mavriplis	$175,000	October 1, 1996 - September 30, 1999
52	R825328	Chemical Plant Wastewater Reuse and Zero Discharge Cycles	University of Oklahoma	Miguel J. Bagajewicz	$224,977	October 1, 1996 - September 30, 1999
53	none	Data for Waste Inventory Factors	Michigan Technological University	D.R. Shonnard and A.S. Mayer	none	none

54	R825326	Water-Based Coatings via Miniemulsion Polymerization	Georgia Institute of Technology	F. Joseph Schork	$274,984	October 1, 1996 - September 30, 1999
55	none	Integrated Environmental Management Plan for Shipbuilding Facilities	Urban Waste Management & Research Center	Bhaskar Kura, Ph.D., Assistant Professor, Civil and Environmental Engineering	none	none
56	none	Amphophilic Solvents for Pollution Prevention	University of Minnesota	E.L. Cussler	none	none
57	R824730	Design and Synthesis of CO2-Soluble Affinity Ligands for Use in CO2 Extraction of Proteins	University of Pittsburgh	Eric Beckman and Alan Russell	$150,000	October 1, 1995 - September 30, 1998
58	none	Environmentally Conscious Design for Construction	Michigan Technological University and The M.W. Kellogg Company	R.M. Patty, J.W. Sutherland, C.R. Baillod, D.W. Hertz and D. Grandy	none	none
59	104TAM0441	Homogeneous Catalysis in Supercritical Carbon Dioxide	Texas A & M University	Aydin Akgerman	none	none
60	R825345	Environmentally Conscious Design and Manufacturing with Input Output Analysis and Markovian Decision Making	Michigan Technology University	Drs. Walter Olson, John Sutherland and Sandar Pandit Technology University	$180,000 (EPA share, additional $180,000 from NSF)	October 1, 1996 - September 30, 1999

61	R826738	In situ Diagnostic Techniques for Probing Solvation Effects in Supercritical Fluid Reaction Media for Synthetic Organic Chemistry	Massachusetts Institute of Technology	Jeffrey I. Steinfeld and Jefferson W. Tester	$265,000	October 1, 1998 - September 30, 2001
62	none	Oil Recovery From Cutting Fluids	University of Minnesota	M.J. Semmens	none	none
63	R826653	Biomimetic Chemistry in Water Solution	Columbia University	Ronald Breslow	$376,747	August 3, 1998 - August 2, 2001
64	R825304	Environmentally Benign Photo-Assisted Catalysis Selective Oxidation Reactions in Zeolites	University of Iowa	Sarah C. Larsen and Vicki H. Grassian	$260,228	October 1, 1996 - September 30, 1999
65	none	Clean Process Advisory System (CPAS) Core Activities	Michigan Technological University	J.R. Baker, P.P. Radecki, B.A. Barna, and T.N. Rogers	none	none
66	R824745	P2 Incentive Contracts Enhancing Diffusion of P2 Technologies in the Metal Plating Industry	Illinois State University	Thomas J. Bierma and Francis L. Waterstraat	$199,964	October 1, 1995- September 30, 1997
67	104UHH0455	Membrane Technology Selection System for the Metal Finishing Industry	University of Houston	Miriam Heller	none	none

68	R824727	High Yield Membrane Reactors	Georgia Institute of Technology	Mary Rezac and Haskell Beckham	$269,999	October 1, 1995 - September 30, 1998
69	none	Environmentally Conscious Manufacturing: Prediction of Processing Waste Streams for Discrete Products	Michigan Technological University	John W. Sutherland and Walter W. Olson	none	none
70	R822343	Using Membrane Reactors to Reduce the Generation of Waste Products	SUNY - Buffalo	Carl R. F. Lund	$193,389	October 1995 - September 1997
71	R824731	Phase Equilibria of CO2-Based Reaction Systems	University of Notre Dame	Joan F. Brennecke and Mark A. Stadtherr	$200,000 total ($100,000 EPA and $100,000 NSF)	October 1995 - September 1997
72	R826119	Microstructural, Morphological and Electrical Studies of a Unique Dry Plasma Metal Deposition for Printed Circuit Boards (PCBs)	Colorado State University	W. S. Sampath, Kurt Barth	$200,001	September 1, 1997 - August 31, 2000

73	R825339	Novel Nanocoatings On Cutting Tools For Dry Machining	Oklahoma State University (OSU), Technology Assessment & Transfer (TA&T) Inc., Annapolis, MD	Professor Ranga Komanduri and Dr. Frank Kustas	$180,000 (EPA share, additional $180,000 from NSF)	October 1, 1996 - September 30, 1999
74	104 TAM0401	Use of Inorganic Ion Exchangers for Hazardous Waste Remediation	Texas A & M University	Abraham Clearfield, A. I. Bortun	none	none
75	R827125	In Process Contaminant Removal from Chromium Electroplating Baths Using a Fuel Cell Electrode Ion Exchange Membrane Process	Illinois Institute of Technology, Chicago, IL.1, Clarkson University, Potsdam, NY2	H. Ted Chang1, J. Robert Selman1, Eugene S. Smotkin1, Thomas M. Holsen2	$331,389	October 1, 1998 - September 30, 2001
76	R826734	Multiphase Reactive Equilibria In CO2-Based Systems	University of Notre Dame	Joan F. Brennecke and Mark A. Stadtherr	$295,000	October 1, 1998 - September 30, 2001
77	R826729	Metabolic Engineering of Methylotrophic Bacteria for Conversion of Methanol to Higher Value Added Products	University of Washington	Mary E. Lidstrom, Steven Van Dien	$190,000	October 1, 1998 - September 30, 2001
78	R826737	Alternative Wafer Cleaning Using HF-H2O Processing	Massachusetts Institute of Technology	Herbert H. Sawin	$340,000	January 1, 1999 - December 31, 2001

79	R826115	Nonionic Surfactants for Dispersion Polymerizations in Carbon Dioxide	University of North Carolina at Chapel Hill	Joseph M. DeSimone	$370,000	November 1, 1997 - October 31, 2000
80	R826116	Environmentally Benign Synthesis of Resorcinol from Glucose	Michigan State University	John V. Frost	$337,202	November 1, 1997 - October 31, 2000
81	R824729	Coking and Activity of Solid Acid Alkylation Catalysts in Supercritical Reaction Media	University of Kansas	Bala Subramaniam	$220,000	October 1, 1995 - September 30, 1998
82	R826034	Solid-Catalyzed Reactions in Supercritical Reaction Media	University of Kansas	Bala Subramaniam	$125,000	October 1, 1998 - September 30, 2001
83	R824728	Replacement of Organic Solvents by Carbon Dioxide for Forming Aerosols in Coating Processes	University of Colorado	R. E. Sievers, Barbara A. Watkins, and Chongying Xu	$200,000	October 1, 1995 - September 30, 1997
84	R827121	Solvent-less, Electron Beam-Cured Vinyl Ether Coating Formulations for Flexible Magnetic Media Manufacture	The University of Alabama	David E. Nikles	$328,209	October 1, 1998 - September 30, 2001

85	R826113	Synthetic Methodology "Without Reagents" Tandem Enzymatic and Electrochemical Methods for the Manufacturing of Fine Chemicals	University of Florida	Tomas Hudlicky, Gabor Butora, David Gonzalez	$411,593	September 1, 1997 - August 31, 2000
86	none	Selection of Processes to Support Environmentally Conscious Design and Manufacturing	Michigan Technological University	W.W. Olson and J.W. Sutherland	none	none

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Office of Research and Development
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Tabular Query Results of NCER Program and Solicitation Information

93 Abstracts are listed

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Amount	Proposed Start Date
1	68D50	Solvent-Free Polymerization for Pollution Prevention	KSE, Inc.	Dr. J. R. Kittrell	$299,858	September 1995 - March 1996
2	68D40042	Pollution Prevention Pump	Dame Engineering, Inc.	Mr. Don Dame	$55,000	September 1994 - March 1995
3	68D60034	Surface Functionalization of Packaging Films to Promote Adhesion of Aqueous-Based Inks	Sigma Labs, Inc.	Dr. Angelo Yializis	$70,000	September 1996 - March 1997

4	68D70012	Hazardous Metal-Free Color Pigments	Nanomaterials Research Corporation	Dr. Tapesh Yadav	$70,000	September 1997 - March 1998
5	68D99067	CFC-Free Refrigeration Process	Sigma Technologies International, Inc.	Dr. Ali Boufelfel	$70,000	September 1999 - March 2000
6	68D70058	Surface Functionalization of Packaging Films To Promote Adhesion of Aqueous-Based Inks	Sigma Labs, Inc.	Dr. Richard E. Ellwanger	$225,000	September 1997 - September 1999
7	68D99048	A Cost-Competitive Functional Trivalent Chromium Plating Process To Replace Hexavalent Chromium Plating	Faraday Technology, Inc.	Dr. Robert P. Renz	$69,873	September 1999 - March 2000
8	68D98141	Development of an Environmentally Benign Primer for Metal Adhesive Bonding	Chemat Technology, Inc.	Haixing Zheng	$70,000	September 1998 - March 1999
9	68D98163	Hazardous Metal-Free Color Pigments	Nanomaterials Research Corporation	Dr. Dimitri Routkevitch	$225,000	September 1998 - September 2000
10	68D60043	Low Cost, Environmentally Benign Non-Chromate Conversion Coatings	Chemat Technology, Inc.	Mr. Haixing Zheng	$70,000	September 1996 - March 1997
11	68D98120	Office Paper De-Copying	Imagex Technologies, Inc.	Dr. Sushil Bhatia	$69,950	September 1998 - March 1999

12	68D98136	In-Process Recycling of a Spent Electroless Nickel Plating Bath	Faraday Technology, Inc.	Robert P. Renz	$69,857	September 1998 - March 1999
13	68D98140	In-Process Recycling of Spent Hexavalent Chromium Plating Bath	Faraday Technology, Inc.	Robert P. Renz	$69,428	September 1998 - March 1999
14	68D98124	Environmentally and Occupationally Safer Hard Chrome Plating	IonEdge Corporation	Mandar Sunthankar	$70,000	September 1998 - March 1999
15	68D60038	Sol-Gel Derived Composite Coating as a Surface Pretreatment for Aluminum Alloy Adhesive Bonding	Chemat Technology, Inc.	Mr. Haixing Zheng	$70,000	September 1996 - March 1997
16	68D98131	Waste-Heat Driven Absorption Transport Refrigerator	NRG Solutions, Inc.	Michael A. Garrabrant	$70,000	September 1998 - March 1999
17	68D70057	Solvent-Free Production of Performance Ceramics	Nanomaterials Research Corporation	Dr. Shahid Pirzada	$225,000	September 1997 - September 1999
18	68D98142	A Liquid Absorbent for In-Process Recycling of Ethylene from Purge Streams	Bend Research, Inc.	Dr. David Lyon	$70,000	September 1998 - March 1999
19	68D70023	Novel Membranes for In-Process Recycling of Hydrocarbon Feedstocks in Oxygen-Oxidation Processes	Membrane Technology and Research, Inc.	Dr. J.G. Wijmans	$70,000	September 1997 - March 1998

20	68D98156	Novel Membranes for In-Process Recycling of Hydrocarbon Feedstocks in Oxygen-Oxidation Processes	Membrane Technology and Research, Inc.	Dr. Hans Wijmans	$225,000	September 1998 - September 2000
21	68D70024	The Development of a Biodegradable Hydraulic Fluid	Material Innovation, Inc.	Dr. Behrooz A. Khorramian	$70,000	September 1997 - March 1998
22	68D40036	Monomer Removal from Latex Emulsions	Membrane Technology and Research, Inc.	Dr. Amulya Athayde	$55,000	September 1994 - March 1995
23	68D60032	Plasma Processes for Pretreatment of Metal Surfaces	Brighton Technologies Group, Inc.	Dr. R. Giles Dillingham	$69,006	September 1996 - March 1997
24	68D98144	Metal Injection Molding to Prevent Pollution from Automotive and Steel Industry	Nanomaterials Research Corporation	Dr. Tapesh Yadav	$70,000	September 1998 - March 1999
25	68D98127	New Environmentally Benign Heteropolymolybdate Conversion Coatings for Aluminum Alloys	Lynntech, Inc.	Dr. Zoran Minevski	$70,000	September 1998 - March 1999
26	68D98148	Pollution-Free Process for Surface Protection	Surface Treatment Technologies, Inc.	Terri L. Tramel	$69,667	September 1998 - March 1999
27	68D50	Zero-Waste Dry Plating Commercialization	IonEdge Corp.	Mr. Mandar Sunthankar	$300,000	September 1995 - March 1996

28	68D70013	In-Process Recycling of Monomer From Purge Streams in Polyethylene and Polypropylene	Membrane Technology and Research, Inc.	Dr. Ingo Pinnau	$70,000	September 1997 - March 1998
29	68D50	Electrolytic Regeneration of Acid Cupric Chloride Printed Circuit Board Etchant	Oxley Research, Inc.	Dr. J. E. Oxley	$300,000	September 1995 - March 1996
30	68D60053	Control of High-Volume, Low-VOC-Concentration Air Streams	Membrane Technology and Research, Inc.	Dr. J. W. Wijmans	$225,000	September 1996 - December 1998
31	68D99042	Ionic Liquids as Alternative Solvents for Industrial Alkylation Chemistry	Eltron Research, Inc.	Mr. Michael T. Carter	$69,997	September 1999 - March 2000
32	68D98134	Cradle-to-Grave Environmentally Compliant, No-VOC Furniture Coating	Foster-Miller, Inc.	Dr. Robert F. Kovar	$69,957	September 1998 - March 1999
33	68D99083	Development of an Environmentally Benign Primer for Metal Adhesive Bonding	Chemat Technology, Inc.	Mr. Haixing Zheng	$225,000	September 1999 - September 2001
34	68D98147	High-Performance, Low-Global-Warming Refrigerant for Domestic Refrigerators	Environmental Technology and Education Center, Inc.	Dr. Jonathan S. Nimitz	$69,898	September 1998 - March 1999

35	68D70055	Low-Cost, Environmentally Benign, Non-Chromated Corrosive Resistant Coatings	Chemat Technology, Inc.	Mr. Haixing Zheng	$225,000	September 1997 - September 1999
36	68D70056	Plasma Processes for Pretreatment of Metal Surfaces	Brighton Technologies Group, Inc.	Dr. Giles Dillingham	$224,654	September 1997 - September 1999
37	68D98158	Long Life, Low Cost Sorbent for the Conversion of HCl to Chlorine	TDA Research, Inc.	Dr. Robert J. Copeland	$225,000	September 1998 - September 2000
38	68D99037	Solvent Nanofiltration Using Low-Cost Inorganic Membrane Modules	CeraMem Corporation	Dr. Richard J. Higgins	$70,000	September 1999 - March 2000
39	68D99051	Solventless Adhesive Systems	Gumbs Associates, Inc.	Dr. Ronald W. Gumbs	$70,000	September 1999 - March 2000
40	68D70016	A Long-Life, Low-Cost Sorbent for the Conversion of HCl to Chlorine	TDA Research, Inc.	Mr. Robert J. Copeland	$70,000	September 1997 - March 1998
41	68D99058	Combustion CVD: A Clean Alternative to Chromium Electroplating	MicroCoating Technologies, Inc.	Ms. Michelle Hendrick	$70,000	September 1999 - March 2000
42	68D00034	Suppression of Cyanide Formation in Hall Process Potlining	EMEC Consultants	Dr. Rudolf Keller	$50,000	July 1990 - January 1991

43	68D30111	In-Process Recycling of Acetic Acid From Dilute Aqueous Waste Streams	Membrane Technology and Research, Inc.	Dr. Richard W. Baker	$50,000	September 1993 - March 1994
44	68D10068	Suppression of Cyanide Formation inHall Process Potlining	EMEC Consultants	Rudolf Keller	$150,000	September 1991 - June 1994
45	68D10043	Advanced Scrubbing Systems for Removing VOCs from Air	Membrane Technology and Research, Inc.	Amulya Athayde	$50,000	September 1991 - March 1992
46	68D40027	Environmentally Acceptable Substitute for Chrome Plating Implant	Sciences Corporation	Dr. Stephen N. Bunker	$54,957	September 1994 - March 1995
47	68D50116	Novel Process for Functional Chromium Plating from Non-Toxic Trivalent Chromium (Cr(III)) Plating Bath	Faraday Technology, Inc.	Dr. Chengdong Zhou	$219,788	September 1995 - September 1996
48	68D99072	Development of Thermal Spray Circuit Board (TSCB) Technology To Replace Electroplating and "Print-and-Etch" Circuit Board Fabrication Techniques	Thermal Spray Technologies, Inc.	Dr. William J. Lenling	$66,627	September 1999 - March 2000
49	68D99050	Precision Cleaning/Submicron Level Cleaning With Liquid/Supercritical CO2 Technology	GT Equipment Technologies, Inc.	Dr. Ijaz H. Jafri	$70,000	September 1999 - March 2000

50	68D99084	Pollution-Free Process for Surface Protection	Surface Treatment Technologies, Inc.	Mr. Michael J. Riley	$224,960	September 1999 - September 2001
51	68D98155	Manufacturing Methods for Sulfur Concrete Sewer Pipe	Brimstone Pipe Company	Dr. D. Y. Lee	$225,000	September 1998 - September 2000
52	68D00032	Automated Mixing and Application of Agricultural Chemicals	MAIS, Inc.	Mr. Michael H. Magnuson	$46,275	August 1990 - February 1991
53	68D10042	Electrolytic Regeneration of Acid Copper Chloride Etchant	Oxley Research, Inc.	J. E. Oxley	$49,985	September 1991 - March 1992
54	68D30125	Selective Elimination of Waste in a Metal Finishing Operation	IonEdge Corporation	Mr. Mandar Sunthankar	$50,000	September 1993 - March 1994
55	68D50079	In-Process Recycling of Plating Wastes	Faraday Technology, Inc.	Dr. Chendong Zhou	$64,416	September 1995 - March 1996
56	68D60049	In-Process Recycling of Plating Wastes	Faraday Technology, Inc.	Dr. Chendong Zhou	$224,928	September 1996 - September 1998
57	68D40078	Environmentally Benign Alternative to Chromate Conversion	IonEdge Corporation	Mr. Mandar Sunthankar	$165,000	September 1994 - January 1997

58	68D99060	Real-Time Analytical Technology for Environmental Applications	Nanomaterials Research Corporation	Dr. Bijan Miremadi	$70,000	September 1999 - March 2000
59	68D99082	High-Performance, Low-Global-Warming Refrigerants for Domestic Refrigerators	Environmental Technology and Education Center	Dr. Jonathan S. Nimitz	$224,966	September 1999 - September 2001
60	68D00037	Valuable Products from Coal Burning Wastes	Science Ventures, Inc.	Mr. Douglas H. Laird	$50,000	July 1990 - January 1991
61	68D70038	Automated Separation of Post-Consumer Polymer Flake	National Recovery Technologies, Inc.	Dr. Edward J. Sommer, Jr.	$70,000	September 1997 - March 1998
62	68D10045	Novel Chemical Process for Bleaching De-inked Pulp	Guild Associates, Inc.	Wayne E. Ballantyne	$49,712	September 1991 - March 1992
63	68D30105	Extraction of Copper and Zinc From Mixed-Metal Cyanide Solution Using Solid Phase Extraction	ChromatoChem, Inc.	Dr. Richard F. Hammen	$50,000	September 1993 - March 1994
64	68D10039	Environmentally Safer Zinc-Cadmium Alloy Dry Plating as a Substitute for Cadmium Electroplating	IonEdge Corp.	Mandar Sunthankar	$46,918	September 1991 - March 1992

65	68D50090	An Innovative Membrane and Membrane Process for In-Process Recycling of Chromium Metal Within Chrome-Electroplating Operations	Membrane Technology and Research, Inc.	Dr. K. A. Lokhandwala	$65,000	September 1995 - March 1996
66	68D30076	Mercury-Free High CRI Efficient Lamp	Fusion Systems Corporation	Dr. Donald A. MacLennan	$148,996	September 1993 - March 1995
67	68D50084	Electroplating from Additive-Free Electrolytes	Faraday Technology, Inc.	Dr. E. Jennings Taylor	$64,597	September 1995 - March 1996
68	68D00057	High-Speed Recycling Process for Phosphate Industry Waste	Science Ventures, Inc.	Mr. Douglas H. Laird	$149,007	September 1990 - November 1992
69	68D98138	Development of an Improved BIO-SOK for Use in Bilge to Reduce Nonpoint Source Pollution	GMS Technologies	Dr. W. Michael Griffin	$69,932	September 1998 - March 1999
70	68D30080	Elimination of Hazardous Waste Via Advanced Composite Dry Plating System	IonEdge Corporation	Mr. Madar Sunthankar	$150,000	September 1993 - April 1995
71	68D30126	Development of Ink Recycling Process Technology	Resource Recycling & Remediation, Inc.	Mr. Michael Jones	$49,993	September 1993 - March 1994

72	68D60029	Solvent-Free Production of Performance Ceramics	Nanomaterials Research Corporation	Dr. Tapesh Yadav	$70,000	September 1996 - March 1997
73	68D30075	Waste Reduction Through Benzene-Free Polymerization Technology	KSE, Inc.	Dr. J.R. Kittrell	$149,949	September 1993 - January 1995
74	68D70020	An Innovative Photocatalytic Process for Silver Recovery	Wangtec Inc.	Dr. Chi S. Wang	$69,465	September 1997 - March 1998
75	68D40033	Novel Process for Hard Chromium Plating from Non-Toxic Trivalent Chromium (Cr(III) Plating Bath	Faraday Technology, Inc.	Dr. Chengdong Zhou	$54,648	September 1994 - March 1995
76	68D98143	Excess Etchant Reduction and Copper Recovery Process for Cupric Chloride Recovery	Oxley Research, Inc.	Dr. J. E. Oxley	$70,000	September 1998 - March 1999
77	68D00043	Liquid Metal/Cold Metal Bond Enhancement in a Magnetostrictively Stressed Substrate	AVCA Corporation	Mr. W. Vaughn Baltzly	$50,000	September 1990 - March 1991
78	68D50120	Electronics Industry Waste Stream Reduction	Lynntech, Inc.	Dr. Craig C. Andrews	$65,000	September 1995 - March 1996
79	68D70045	High Flash Solvent Recovery Using Dual Purpose Ceramic Membrane Technology	Media and Process Technology, Inc.	Dr. Paul K.T. Liu	$69,558	September 1997 - March 1998

80	68D30078	An Aqueous-Based, Sulfur-Free Pulping Process - Phase II	Guild Associates, Inc.	Mr. Salvatore T. DiNovo	$150,000	September 1993 - December 1995
81	68D70049	Environmentally Safe, No VOC Automotive Coating	Foster-Miller, Inc.	Dr. Robert F. Kovar	$224,995	September 1997 - September 1999
82	68D30077	Development of an Ultrasonic Prototype Instrument to Replace an Environment-Polluting Measurement Practice in the Composite Materials Industry	Xxsys Technologies, Inc.	Dr. Yan Li	$150,000	September 1993 - January 1995
83	68D30106	A New Membrane Process for Air Pollution Minimization in Chlor-Alkali Plants	Membrane Technology and Research, Inc.	Dr. Ingo Pinnau	$50,000	September 1993 - March 1994
84	68D70051	Recovery of Perfluorocarbons (PFCs) from Chemical Vapor Deposition Operations in the Semiconductor Industry	Membrane Technology and Research, Inc. (MTR)	Dr. J.G. Wijmans	$225,000	September 1997 - September 1999
85	68D99057	Recovery of Catalyst Vapors From Foundry Cold Box Core Machines	Membrane Technology and Research, Inc.	Dr. Atsushi Morisato	$70,000	September 1999 - March 2000
86	68D70054	A Low-Cost Environmentally Benign Waste Lubricant Recycling/Re-refining Technology	Media and Process Technology, Inc.	Dr. Paul K.T. Liu	$225,000	September 1997 - September 1999

87	68D40070	A New Membrane Process for Air Pollution Minimization in Chlor-Alkali Plants	Membrane Technology and Research, Inc.	Dr. Kaaeid Lokhandwala	$165,000	September 1994 - November 1997
88	68D70053	Development of a Membrane-Based System for the Recovery and Reuse of Solvents	Bend Research, Inc.	Dr. Scott B. McCray	$225,000	September 1997 - March 1999
89	68D99038	Processes for Recovery and Recycling of Chromium From Spent Chromium Oxide Fluorination Catalysts	Chemical & Metal Industries, Inc.	Dr. Darrell E. Coons	$70,000	September 1999 - March 2000
90	68D10037	Elimination of Fertilizer Discharge from Greenhouse and Nursery Container-Grown Plants	Briggs Nursery, Inc.	James A. Robbins	$50,000	September 1991 - March 1992
91	68D00056	Hydrocarbon Recovery from Petroleum Transfer Operations	Membrane Technology and Research, Inc.	Dr. J. G. Wijmans	$150,000	September 1990 - March 1992
92	68D99035	Ozone Biocidal Properties and Stimulation of Trichoderma harzianum (Strain T- 22) When Applied in Combination as an Environmentally Benign Alternative for Methyl Bromide	BioWorks, Inc.	Dr. Christopher K. Hayes	$70,000	September 1999 - March 2000
93	68D30068	Elimination to Toxic Effluent and Metallizing Process Waste via Jet Vapor Deposition	Jet Process Corporation	Dr. Bret L. Halpern	$150,000	September 1993 - November 1995

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