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Research Projects:

Remediation

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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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