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

Fate and Transport

NATIONAL CENTER FOR ENVIRONMENTAL RESEARCH

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

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

Search Performed: Thursday November 08, 1999