First Name	Last Name	Principal Investigator	Title	Research Area	Poster Group	Room #	Poster Subsection	Poster #
Rose	Abramoff	Margaret Torn	Minerals control soil decomposition and organic carbon accumulation over decadal timescales: A modeling analysis	LBNL-SFA (TES)	Belowground	1	A	3
Deb	Agarwal	Margaret Torn, LBNL	AmeriFlux Carbon Flux Data System	AmeriFlux Management Project	Flux/Aboveground	1	B	11
Robert	Andres	Paul Hanson & Daniel Ricciuto, ORNL TES SFA PIs	Toward a More Nuanced Understanding of Carbon Dioxide Emissions from Fossil Fuel Combustion: Highlights of the Last Year of TES Funding	ORNL-SFA (TES)	ORNL SFA/Wetlands	1	A	51
Christian	Andresen	Stan Wullschleger	Wetter or drier? A model intercomparison of soil moisture and runoff predictions in permafrost landscapes	NGEE - Arctic	Arctic/permafrost	9ab	C	16
Bhavna	Arora	Susan Hubbard, Lawrence Berkeley Laboratory	Flood Plain Modeling: Hydrological, Biogeochemical, and Microbial Controls on Carbon and Nitrogen Fluxes	LBNL-SFA (SBR)	LBNL-SFA (SBR)	21	C	71
Vanessa	Bailey	Vanessa Bailey	Pore- to Core-Scale Research to Inform Ecosystem-Scale Soil C Biogeochemistry	PNNL (TES)	Belowground	1	B	48
John	Bargar	John R. Bargar	SLAC SFA: Mechanistic linkages between floodplain critical element and contaminant redox cycles	SLAC-SFA (SBR)	SLAC-SFA (SBR)	21	D	48
John	Bargar	John R. Bargar	SLAC SFA: Coupled cycling of organic matter, uranium, and biogeochemical critical elements in subsurface systems	SLAC-SFA (SBR)	SLAC-SFA (SBR)	21	D	49
Harry	Beller	Harry Beller	Using strain-resolved metatranscriptomic analysis to highlight active biogeochemical processes in the subsurface	LBNL-SFA (SBR)	LBNL-SFA (SBR)	21	C	63
Jayne	Belnap	Sasha C. Reed	Dryland feedbacks to future climate: Strong interactions among climate, biota, carbon cycling, and energy balance	Federal Agency-Led Research	Flux/Aboveground	1	B	35
Sebastien	Biraud	Margaret Torn	AmeriFlux Management Project Tech Team	AmeriFlux Management Project	Flux/Aboveground	1	B	56
W. Robert	Bolton	Stan Wullscheger	Conceptualization of Intermediate- to Large-scale Parameter Estimation of Landscape Transitions Using Proper Orthogonal Decomposition (POD) Techniques	NGEE - Arctic	Arctic/permafrost	9ab	C	20
Maxim	Boyanov	Ken Kemner	The effect of surfaces and ligands on the reduction and reoxidation reactions of U studied in mixed-batch reactors and flow-through columns	ANL-SFA (SBR)	ANL-SFA (SBR)	21	A	12
Amy	Breen	Stan D. Wullschleger	The Alaska Arctic Vegetation Archive: A report on the status of the Arctic Vegetation Archive and an application in northern Alaska	NGEE - Arctic	Arctic/permafrost	9ab	A	13
Eoin	Brodie	Susan S. Hubbard	Genome-enabled modeling of microbial biogeochemistry using a trait-based approach. Does increasing metabolic complexity increase predictive capabilities?	LBNL-SFA (SBR)	LBNL-SFA (SBR)	21	C	64
Eoin	Brodie	Margaret Torn	LBNL Terrestrial Ecosystem Science SFA - Impact of warming on microbiology and carbon cycling in deep soils.	LBNL-SFA (TES)	Belowground	1	B	4
Scott	Brooks	Eric Pierce	Periphyton Biofilms Generate Methylmercury in a Contaminated Creek System	ORNL-SFA (SBR)	ORNL-SFA (SBR)	21	D	25
Kristine Grace	Cabugao	Richard Norby	Tree species influences phosphatase activity and microbial community composition	Student Poster	Tropics	9ab	D	3
Zoe	Cardon	Zoe G. Cardon	Modeling the impact of hydraulic redistribution on carbon fluxes and storage using CLM4.5 at four AmeriFlux Sites	University-Led Research	Flux/Aboveground	1	C	18

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Rosemary	Carroll	Susan Hubbard: Lawrence Berkeley National Laboratory	Building Observational Networks for Hydrologic Characterization of the Snow-Dominated SFA East River Watershed Study Site	LBNL-SFA (SBR)	LBNL-SFA (SBR)	21	C	67
Jeffrey	Catalano	Jeffrey Catalano	Evaluating Trace Metal Limitations on Methane Fluxes in Terrestrial Ecosystems	University-Led Research	University (SBR)	21	A	20
Molly	Cavaleri	Molly Cavaleri	Tropical Response to Altered Climate Experiment (TRACE): adventures in warming a wet tropical forest in Puerto Rico	University-Led Research	Tropics	9ab	B	2
Jeff	Chambers	Jeff Chambers	Next Generation Ecosystem Experiments–Tropics Project Overview	NGEE - Tropics	Tropics	9ab	C	4
Hongmei	Chen	Eric Pierce	High-Resolution Mass Spectrometric Analyses of Mercury-DOM Complexation and Cellular Response of Geobacter sulfurreducens PCA Following its hgcAB Gene Deletion	ORNL-SFA (SBR)	ORNL-SFA (SBR)	21	D	27
Xingyuan	Chen	Xingyuan Chen	Field-scale Modeling of Hydrologic and Biogeochemcial Dynamics in the Hyporheic Zone of the Columbia River along the Hanford Reach	PNNL-SFA (SBR)	PNNL-SFA (SBR)	21	B	5
Laura	Condon	Reed Maxwell	Assessing groundwater surface water interactions using an integrated hydrologic model of the Continental US	IDEAS	IDEAS	21	A	44
Robert	Danczak	Michael J. Wilkins	Snowmelt-induced hydrologic shifts drive biogeochemical and ecological processes in hyporheic zone environments	Student Poster	LBNL-SFA (SBR)	21	C	58
Stuart	Davies	Stuart Davies	From leaf to ecosystem level: controls of transpiration in seasonal tropical forests across a rainfall gradient	NGEE - Tropics	Tropics	9ab	B	6
Wenming	Dong	Susan S. Hubbard	Subsurface carbon inventories and fluxes in a semi-arid region floodplain, Rifle Colorado	LBNL-SFA (SBR)	LBNL-SFA (SBR)	21	C	68
Dipankar	Dwivedi	David Moulton	Testing Code Interoperability and Productivity on Modeling Integrated Surface- Subsurface Water Flow and Biogeochemical Cycling in the Hyporheic Zone – IDEAS Use Case 1	IDEAS	IDEAS	21	A	42
Dennis	Dye	Dennis G. Dye	Understanding the Response of Photosynthetic Metabolism in Tropical Forests to Seasonal Climate Variations	GOAmazon	Tropics	9ab	A	1
David	Eissenstat	David Eissenstat	Topographic Controls on Soil Respiration and Fine Root Distribution at the Shale Hills Critical Zone Observatory	University-Led Research	Belowground	1	D	25
Zhaosheng	Fan		CHARACTERIZING ORGANIC MATTER LABILITY IN ALASKAN TUNDRA SOILS USING MID-INFRARED SPECTROSCOPY	ANL-SFA (TES)	Arctic/permafrost	9ab	D	15
Boris	Faybishenko	Tetsu Tokunaga	Statistical Analysis Of Long-Term Meteorological Data to Assess the Effect of Climatic Changes on Hydrological Conditions At The Rifle Site	LBNL-SFA (SBR)	LBNL-SFA (SBR)	21	C	60
Scott	Fendorf	John Bargar	SLAC SFA: Molecular controls over uranium mobility in organic-rich sediments	SLAC-SFA (SBR)	SLAC-SFA (SBR)	21	D	47
Scott	Fendorf	Scott Fendorf	Spatial Variation in Microbial Processes Controlling Carbon Mineralization within Soils and Sediments	University-Led Research	ORNL SFA/Wetlands	1	A	29
Adrien C.	Finzi	Adrien Finzi	Measuring and modeling CO2 and CH4 flux in response to experimental manipulations of temperature and atmospheric CO2 in a black SPRUCE peatland	University-Led Research	ORNL SFA/Wetlands	1	C	24

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Rosie	Fisher	Rosie Fisher	Vegetation demographics in Earth System Models: Capturing tropical forest response to novel disturbance regimes	NGEE - Tropics	Tropics	9ab	A	11
Lauren	Foster	Reed Maxwell	Development of multiple simulation capabilities to model hydrologic partitioning and biogeochemical cycling at the Berkeley Lab's East River Field Site	Student Poster	University (SBR)	21	B	53
Patricia	Fox	Peter S. Nico	Chemical Characterization and Release Dynamics of Sediment Associated Organic Matter at the Rifle, Co Field Site	LBNL-SFA (SBR)	LBNL-SFA (SBR)	21	C	69
Christopher	Francis	John Bargar	SLAC SFA: Diversity and biogeography of subsurface nitrogen-cycling communities at uranium-contaminated DOE legacy sites in the upper Colorado River Basin	SLAC-SFA (SBR)	SLAC-SFA (SBR)	21	D	50
David	Genereux	David P. Genereux	Regional groundwater systems convey deep crustal carbon into rainforest water, air, and plants in Costa Rica	University-Led Research	Tropics	9ab	D	7
Allison	Gill	Adrien Finzi	Effect of belowground warming on surface methane and CO2 fluxes from a boreal black spruce peatland	Student Poster	ORNL SFA/Wetlands	1	D	23
David	Graham	Stan D. Wullschleger	Biogeochemical Controls on Microbial CO2 and CH4 Production Across Polygonal Arctic Soils and Permafrost	NGEE - Arctic	Arctic/permafrost	9ab	D	19
Natalie	Griffiths	ORNL TES SFA PIs: Paul Hanson, Daniel Ricciuto	Peatland porewater chemistry responses to deep peat and whole-ecosystem warming	ORNL-SFA (TES)	ORNL SFA/Wetlands	1	C	44
Charlotte	Grossiord	Nate McDowell	Physiological and acclimatory responses of pine and juniper to sustained heat and drought manipulation	LANL (TES)	Flux/Aboveground	1	D	19
	Grunewald	Elliot Grunewald	Rapid Scanning Surface NMR for Efficient Land and Airborne Hydrologeologic Mapping	SBIR Program	SBIR Program	21	C	57
Baohua	Gu	Eric Pierce	Anaerobic Mercury Methylation and Demethylation by Geobacter bemidjiensis Bem, and factors affecting methylmercury export and distribution	ORNL-SFA (SBR)	ORNL-SFA (SBR)	21	D	26
Lianhong	Gu	Paul Hanson	Testing a land model in ecosystem functional space via a comparison of observed and modeled ecosystem flux responses to precipitation regimes and associated stresses in a central USA forest	ORNL-SFA (TES)	ORNL SFA/Wetlands	1	B	6
Paul	Hanson	Paul J. Hanson	ORNL's Terrestrial Ecosystem Science – Scientific Focus Area (TES SFA) A 2016 Overview	ORNL-SFA (TES)	ORNL SFA/Wetlands	1	D	43
Dylan	Harp	Cathy Wilson	Fine-scale modeling of permafrost using the Arctic Terrestrial Simulator	NGEE - Arctic	Arctic/permafrost	9ab	A	17
Susan	Heinz	Stan Wullschleger	Implementing a Shared Project Management Strategy across NGEE-Arctic and NGEE-Tropics	NGEE - Arctic	Arctic/permafrost	9ab	D	23
Nancy	Hess	Nancy Hess	EMSL: A DOE Scientific User Facility for Terrestrial and Subsurface Science Research	EMSL	EMSL/JGI	21	A-D	16
Caitlin	Hicks Pries	Margaret Torn	Soil depths respond differently to in situ warming	LBNL-SFA (TES)	Belowground	1	A	27
Ross	Hinkle	C. Ross Hinkle	Carbon Dynamics of the Greater Everglades Watershed and Implications of Climate Change	University-Led Research	ORNL SFA/Wetlands	1	A	49
Suzanne	Hodgkins	Curtis J. Richardson	Latitudinal Differences in Peatland Organic Chemistry observed by FTIR, UV/Vis Absorption, and Fluorescence Spectroscopies	Student Poster	ORNL SFA/Wetlands	1	D	69
Forrest	Hoffman	Jeff Chambers	Forecasting Pan-Tropical Ecological Impacts of the 2015 El Niño Southern Oscillation (ENSO)	NGEE - Tropics	Tropics	9ab	B	10

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Kirsten	Hofmockel	Kirsten Hofmockel	Microbial Response to Deep Peat Heating	University-Led Research	ORNL SFA/Wetlands	1	A	7
Jennifer	Holm	Jeffrey Chambers	Vegetation demographics in Earth System Models: Capturing tropical forest response to novel disturbance regimes	NGEE - Tropics	Tropics	9ab	D	11
Les	Hook	Les Hook	ORNL's TES SFA Data Acquisition, Quality Assurance, and Archiving to Support Modeling and Synthesis Tasks	ORNL-SFA (TES)	ORNL SFA/Wetlands	1	A	31
Anya	Hopple	Jason Keller and Scott Bridgham	How does deep warming of a peatland affect methane production?	Student Poster	ORNL SFA/Wetlands	1	A	5
Zhangshuan (j	Hou	John Zachara, Pacific Northwest National Laboratory	Facies Delineation at Local and Reach Scales	PNNL-SFA (SBR)	PNNL-SFA (SBR)	21	B	3
Heileen	Hsu-Kim	Heileen Hsu-Kim	Nanoscale Mercury Sulfide-Organic Matter Interactions: Practical Applications for Environmental Risk Assessment	University-Led Research	University (SBR)	21	D	30
Maoyi	Huang	Pacific Northwest National Laboratory	Quantifying Reach-scale Dynamics of Groundwater-Surface Water Exchange and Land-Atmosphere Interactions along the Columbia River Shoreline through Model-Data Integration	PNNL-SFA (SBR)	PNNL-SFA (SBR)	21	B	2
Susan	Hubbard	Susan Hubbard	Berkely Lab Watershed Function SFA: Biogeochemical Dynamics from Genome to Watershed Scales	LBNL-SFA (SBR)	LBNL-SFA (SBR)	21	C	59
Colleen	Iversen	Paul Hanson (ORNL)	Introducing FRED: A growing Fine-Root Ecology Database	ORNL-SFA (TES)	ORNL SFA/Wetlands	1	B	30
Kolby	Jardine	Jeffrey Q. Chambers	Disentangling temperature-driven influences to water and carbon plant physiological processes in the Central Amazon during the 2015/16 El Niño	NGEE - Tropics	Tropics	9ab	C	8
Julie	Jastrow	Julie Jastrow	Bioavailable Carbon and the Relative Degradation State of Organic Matter in Active Layer and Permafrost Soils	ANL-SFA (TES)	Arctic/permafrost	9ab	A	21
Yongqin	Jiao	Annie Kersting	The Effect of Natural Organic Matter on Actinide Redox Transformations and Sorption Reactions	LLNL-SFA (SBR)	LLNL-SFA (SBR)	21	C	34
Jeffrey	Johnson	David Moulton	Interoperable software for integrated watershed scale models	IDEAS	IDEAS	21	A	41
Tim	Johnson	John Zachara	Model-driven hydro-geophysical characterization of the groundwater-surface water interaction zone	PNNL-SFA (SBR)	PNNL-SFA (SBR)	21	B	4
Alexander	Johs	Eric Pierce	Insights into the Biochemistry of Microbial Mercury Methylation	ORNL-SFA (SBR)	ORNL-SFA (SBR)	21	D	28
Ralph	Keeling	Ralph Keeling	Atmospheric signatures of large-scale variations in the isotopic fractionation of terrestrial photosynthesis	University-Led Research	Flux/Aboveground	1	A	12
Marco	Keiluweit	Scott Fendorf	Functional Aerobic-Anaerobic Metabolic Heterogeneity within Soils	University-Led Research	ORNL SFA/Wetlands	1	C	70
Jason	Keller	Jason Keller - Chapman University	Warming effects on peat column CH4 dynamics in a Minnesota bog	University-Led Research	ORNL SFA/Wetlands	1	D	21
Ken	Kemner	Ken Kemner	The Argonne National Laboratory Subsurface Biogeochemical Research Program SFA: Fe and S Biogeochemistry in Redox Dynamic Environments	ANL-SFA (SBR)	ANL-SFA (SBR)	21	A	14
Annie	Kersting	Annie Kersting	LLNL's Subsurface Biogeochemistry of Actinides SFA	LLNL-SFA (SBR)	LLNL-SFA (SBR)	21	C	33
Terri	Killeffer	Stan Wullschleger	The NGEE Arctic Data Archive: Data Sharing, DOI Services, and Modeling Archive	NGEE - Arctic	Arctic/permafrost	9ab	B	36

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Anthony	King	Anthony W. King, Oak Ridge National Laboratory, kingaw@ornl.gov	Functional Unit Testing in the Investigation of Black Spruce Foliar Dark Respiration	ORNL-SFA (TES)	ORNL SFA/Wetlands	1	D	41
Laurel	Kluber	Paul Hanson	Microbial Response to the SPRUCE Deep Peat Heating Experiment	ORNL-SFA (TES)	ORNL SFA/Wetlands	1	B	50
Joel	Kostka	Joel E Kostka	The response of belowground carbon turnover and heterotrophic microbial communities to warming in peatlands at the ecosystem scale.	University-Led Research	ORNL SFA/Wetlands	1	C	22
Jitendra	Kumar	Stan D. Wullschleger	Characterizing biotic and abiotic properties of landscape and their implications for ecohydrological processes across scales	NGEE - Arctic	Arctic/permafrost	9ab	D	37
Jung-Eun	Lee	Jung-Eun Lee	Collaborative Research on Ecophysiological controls on Amazonian precipitation seasonality and variability	University-Led Research	Tropics	9ab	B	44
Emmanuel	Léger	Stan Wullschleger (NGEE Arctic PI)	Quantifying the Distribution of Soil and Permafrost Properties and Their Linkage with Landscape Properties in Arctic Tundra Ecosystem	NGEE - Arctic	Arctic/permafrost	9ab	B	18
L. Ruby	Leung	Jeff Chambers	Modeling hydrologic processes in the Amazon: Comparison of hydrologic variability in a hierarchy of model simulations	NGEE - Tropics	Tropics	9ab	A	9
John	Lin	James Ehleringer (University of Utah)	Scaling biospheric CO2 fluxes in the Western U.S. from site to region using the Community Land Model	University-Led Research	Flux/Aboveground	1	C	38
Marcy	Litvak	Marcy Litvak	Determining the Impact of Forest Mortality in Semi-Arid Woodlands on Local and Regional Carbon Dynamics	University-Led Research	Flux/Aboveground	1	D	37
Yuanyuan	Liu	John Zachara	Fine Scale Biogeochemical Processes in Hyporheic Zone Sediments	PNNL-SFA (SBR)	PNNL-SFA (SBR)	21	B	9
Chongxuan	Liu	John Zachara	Functional Enzyme-based Metabolic Models for Simulating Biogeochemical Processses	PNNL-SFA (SBR)	PNNL-SFA (SBR)	21	B	10
Meng	Lu	J. Patrick Megonigal	Shrinking stems of marsh plant under elevated carbon dioxide	Institute	ORNL SFA/Wetlands	1	C	42
Yiqi	Luo	Yiqi Luo	The third dimension of the land carbon cycle dynamics	University-Led Research	Flux/Aboveground	1	A	36
Kate	Maher	Kate Maher	A multiscale approach to modeling carbon cycling within a high-elevation watershed	University-Led Research	University (SBR)	21	B	52
Jiafu	Mao		A framework for the detection and attribution of terrestrial ecosystem dynamics	ORNL-SFA (TES)	ORNL SFA/Wetlands	1	D	65
Roser	Matamala	Julie D. Jastrow	Mid infrared spectral properties of northern soils across a latitudinal transect in Alaska	ANL-SFA (TES)	Arctic/permafrost	9ab	B	22
Paula	Matheus Carnevali	Susan Hubbard	Variability in microbial community structure and function across and among meanders in the East River SFA Watershed Study Site	LBNL-SFA (SBR)	LBNL-SFA (SBR)	21	C	70
Melanie	Mayes	Paul Hanson, Dan Ricciuto	Improving Soil C Dynamic Models Through the Incorporation of Microbial Processes	ORNL-SFA (TES)	ORNL SFA/Wetlands	1	C	66
Matthew	Mcclellan	Ross Hinkle	Carbon Dynamics of the Greater Everglades Watershed and Implications of Climate Change	Student Poster	ORNL SFA/Wetlands	1	B	8
Nate	Mcdowell	Jeff Chambers	NGEE-Tropics El Nino and drought impacts research	NGEE - Tropics	Tropics	9ab	C	12
Karis	Mcfarlane	Karis McFarlane	Terrestrial Carbon Cycling: Insights Gained through Radiocarbon Analysis and Interpretation at SPRUCE, NGEE-Arctic, and AmeriFlux	LLNL (TES)	ORNL SFA/Wetlands	1	D	39

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Lois	Mcinnes	Lois Curfman McInnes	Interoperable Design of Extreme-scale Application Software (IDEAS): Software development methodologies that enhance scientific productivity	IDEAS	IDEAS	21	A	40
Pat	Megonigal	Pat Megonigal	Coastal Wetland Carbon Sequestration in a Warmer Climate	Institute	ORNL SFA/Wetlands	1	D	63
Bhoopesh	Mishra	Kenneth M. Kemner	Abiotic redox dynamics between Hg and Mn	ANL-SFA (SBR)	ANL-SFA (SBR)	21	A	11
Jessica	Moore	Aimee T. Classen	Roots stimulate carbon cycling while mycorrhizae stimulate nitrogen cycling in a boreal upland forest	Student Poster	ORNL SFA/Wetlands	1	B	32
Rebecca	Neumann	Rebecca B Neumann	Methane Flux and Oxidation in a Thermokarst Bog in Interior Alaska: The Role of Plants	University-Led Research	Arctic/permafrost	9ab	A	39
Michelle	Newcomer	Michelle Newcomer	Exploring climate controls on hyporheic zone dynamics and feedbacks between sediment distribution, riverbed bioclogging, infiltration, and microbial CO2 production	LBNL-SFA (SBR)	LBNL-SFA (SBR)	21	C	72
Brent	Newman		Understanding Lateral Hydrological Flow Paths in the Arctic Coastal Plain	NGEE - Arctic	Arctic/permafrost	9ab	B	40
Richard	Norby	Jeff Chambers	Photosynthetic parameters of diverse woody species in Panama are correlated with foliar nitrogen and phosphorus content	NGEE - Tropics	Tropics	9ab	D	41
Edward	O'loughlin	Kenneth Kemner	Effects of soluble electron shuttles on microbial Fe(III) reduction and methanogenesis in wetland sediments	ANL-SFA (SBR)	ANL-SFA (SBR)	21	A	13
Scott	Painter	Scott Painter	A multiscale strategy for process-rich, microtopography-aware simulations of thermal hydrology in polygonal tundra	IDEAS	IDEAS	21	A	43
Scott	Painter	Scott Painter	Exposure-time based approach for modeling mercury transport and transformation in low-order streams	ORNL-SFA (SBR)	ORNL-SFA (SBR)	21	D	24
Jerry	Parks	Jerry M. Parks, ORNL	Probing Electrochemistry and Chemical Equilibria with Computational Chemistry: Corrinoids Related to Mercury Methylation	ORNL-SFA (SBR)	ORNL-SFA (SBR)	21	D	29
Ljiljana	Pasa-Tolic	Ljiljana Pasa-Tolic	Exploring the Soil Microbiome and Elemental Cycling via Advanced Mass Spectrometry at EMSL	EMSL	EMSL/JGI	21	A-D	17
Eric	Pierce	Eric M Pierce	Biogeochemical Transformations at Critical Interfaces Science Focus Area: An Overview	ORNL-SFA (SBR)	ORNL-SFA (SBR)	21	D	23
Rachel	Porras	Margaret S. Torn	Synthetic Mineral-Organo Associations in Soil: Vulnerability of Mineral Associated Carbon to Microbial Decomposition with Depth	LBNL-SFA (TES)	Belowground	1	D	45
Brian	Powell	Annie Kersting	Identification of Processes Controlling Pu Behavior Under Field Conditions and at Field Relevant Timescales	LLNL-SFA (SBR)	LLNL-SFA (SBR)	21	C	36
Brian	Powell	Brian A. Powell	Understanding Technetium Transport in Porous Media with Batch Geochemical Tests, 4D Emission Imaging Experiments and Modeling Studies	University-Led Research	University (SBR)	21	A	21
Brian	Powell	Brian A. Powell	Development of a Self-Consistent Model of Plutonium Sorption: Quantification of Sorption Enthalpy and Ligand-Promoted Dissolution	University-Led Research	University (SBR)	21	A	22
Brian	Powell	Brian A. Powell	The influence of plant and microbial exudates on radionuclide mobility in subsurface environments	University-Led Research	University (SBR)	21	A	38

First Name	Last Name	Principal Investigator	Title	Research Area	Poster Group	Room #	Poster Subsection	Poster #
Jennifer	Powers	Jennifer Powers	Extrapolating carbon dynamics of seasonally dry tropical forests across geographic scales and into future climates: improving simulation models with empirical observations	University-Led Research	Tropics	9ab	A	43
Brett	Raczka	David Bowling	An observational constraint on stomatal function in forests: evaluating coupled carbon and water vapor exchange with carbon isotopes in the Community Land Model (CLM 4.5)	University-Led Research	Flux/Aboveground	1	A	55
Jonathan	Raff	Jonathan D. Raff	Towards a Mechanistic Understanding of Land-Atmosphere Interactions of Reactive Oxides of Nitrogen	Early Career	University (SBR)	21	A	18
Daniel	Ricciuto	Paul Hanson	A new model intercomparison at SPRUCE	ORNL-SFA (TES)	ORNL SFA/Wetlands	1	B	52
Curtis	Richardson	Curtis J. Richardson	The Role of Phenolic Compounds, Aromatics and Black Carbon Controls on Decomposition, GHG losses in Peatlands Along a Latitudinal Gradient from Minnesota to Panama	University-Led Research	ORNL SFA/Wetlands	1	B	34
Adam	Rivers	Susannah Tringe	The DOE Joint Genome Institute: A dedicated user facility for environmental & energy genomics	JGI	EMSL/JGI	21	A-D	15
Eric	Roden	John Zachara	Composition and Metabolic Activity of Columbia River SIZ Microbial Communities in Relation to Habitat and DOC Source	PNNL-SFA (SBR)	PNNL-SFA (SBR)	21	B	8
Joel	Rowland	Joel Rowland	The flux of soil organic carbon into arctic rivers from river bank erosion	Early Career	University (SBR)	21	B	51
Peter H	Santschi	Peter H. Santschi	COLLABORATIVE RESEARCH: NATURAL ORGANIC MATTER AND MICROBIAL CONTROLS ON MOBILIZATION/IMMOBILIZATION OF I AND PU IN SOILS AND WATERS AFFECTED BY RADIONUCLIDE RELEASES IN USA AND JAPAN	University-Led Research	University (SBR)	21	A	37
Karina	Schafer	Karina Schafer	Canopy water use efficiency before, during and after gypsy moth attack in an upland forest in the New Jersey Pine Barrens	University-Led Research	Flux/Aboveground	1	C	62
Timothy	Scheibe	John Zachara (PNNL)	Hybrid Multiscale Simulation of Hydro-Biogeochemical Processes in the Groundwater-Surface Water Interaction Zone	PNNL-SFA (SBR)	PNNL-SFA (SBR)	21	B	6
Andres	Schmidt	Beverly Law	Project title: Carbon cycle dynamics in Oregon's urban-suburban-forested-agricultural landscapes	University-Led Research	Flux/Aboveground	1	A	10
Ted	Schuur	Edward (Ted) Schuur	The impact of permafrost carbon loss on the carbon balance of an experimentally warmed tundra ecosystem	University-Led Research	Arctic/permafrost	9ab	A	35
Yuning	Shi	David Eissenstat	Using a spatially-distributed hydrologic biogeochemistry model to study the spatial variation of carbon processes in a Critical Zone Observatory	Federal Agency-Led Research	Belowground	1	B	28
Xiaoying	Shi	Paul J. Hanson	Representing northern peatland hydrology and biogeochemistry with the Community Land Model	ORNL-SFA (TES)	ORNL SFA/Wetlands	1	A	9
Ingrid	Slette		Characterizing rooting depth distribution and nitrogen acquisition by dominant tundra plant species	NGEE - Arctic	Arctic/permafrost	9ab	C	24
Peyton	Smith	Vanessa Bailey	Pore- to Core-Scale Research: The Effects of Drought and Rewetting on the Fate of C in Soils	PNNL (TES)	Belowground	1	C	26

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James	Stegen	John Zachara	Linkages among Geophysical Facies, Microbial Composition, Biogeochemical Rates, and Seasonal Hydrology in the Hyporheic Zone	PNNL-SFA (SBR)	PNNL-SFA (SBR)	21	B	7
Allan	Strand	Allan Strand	Inducing and characterizing root senescence through anatomical, chemical, and transcriptional approaches.	University-Led Research	Belowground	1	D	75
Tetsu	Tokunaga	Susan S. Hubbard	Deep vadose zone respiration contributions to CO2 fluxes from a semi-arid floodplain	LBNL-SFA (SBR)	LBNL-SFA (SBR)	21	C	61
Margaret	Torn		Berkeley Lab Terrestrial Ecosystem Science SFA: Belowground carbon cycling	LBNL-SFA (TES)	Belowground	1	C	46
Margaret	Torn	Margaret Torn	The AmeriFlux Management Project	AmeriFlux Management Project	Flux/Aboveground	1	D	61
Amy	Trowbridge	Amy Trowbridge	Net bVOC emissions from a mixed hardwood forest floor: Importance of species composition and belowground processes in driving seasonal dynamics	University-Led Research	Belowground	1	C	72
Charuleka	Varadharajan	Susan Hubbard	Agile data management and synthesis for heterogeneous, multiscale watershed datasets	LBNL-SFA (SBR)	LBNL-SFA (SBR)	21	C	73
Charuleka	Varadharajan	Jeffrey Chambers	Development and management of tropical forest datasets for model simulation and benchmarking	NGEE - Tropics	Tropics	9ab	C	42
Lydia	Vaughn	Margaret Torn	Soil carbon inputs and ecosystem respiration: a field priming experiment in Arctic coastal tundra	NGEE - Arctic	Arctic/permafrost	9ab	B	14
Roelof	Versteeg	Roelof Versteeg	A Cloud Based Framework For Monitoring And Predicting Subsurface System Behavior	SBIR Program	SBIR Program	21	C	74
Ate	Visser	Ate Visser	Applications of Isotope and Noble Gas Analyses for Water Resources Management	Federal Agency-Led Research	University (SBR)	21	B	39
Haruko	Wainwright	Susan Hubbard	Above and Below-Ground Geophysical Characterization of Watershed Structure and Functioning	LBNL-SFA (SBR)	LBNL-SFA (SBR)	21	C	66
Nicholas	Waldo	Rebecca Neumann	Using Optical Oxygen Sensors and Targeted Microbial Analyses to Examine Methane Dynamics in the Boreal Rhizosphere	Student Poster	ORNL SFA/Wetlands	1	B	54
Anthony	Walker	Anthony Walker	Global sensitivity analysis of a leaf photosynthesis model composed of multiple competing hypotheses	ORNL-SFA (TES)	ORNL SFA/Wetlands	1	A	33
Matthew	Wallenstein	Matthew Wallenstein	Tracking the fate of Arctic carbon: will shrub expansion result in a loss of soil carbon?	University-Led Research	Arctic/permafrost	9ab	C	38
Dali	Wang	Dali Wang	Building A Virtual Ecosystem Dynamic Model for Root Research	ORNL-SFA (TES)	ORNL SFA/Wetlands	1	C	20
Jeff	Warren	Jeff Warren	Ecophysiology and water relations of woody plants within an Picea-Sphagnum ombrotrophic bog	ORNL-SFA (TES)	ORNL SFA/Wetlands	1	A	53
David	Weston	Paul Hanson	Insights into Sphagnum physiology and the associated microbiome at SPRUCE	ORNL-SFA (TES)	ORNL SFA/Wetlands	1	C	40
Will	Wieder	Will Wieder	Benchmarking and improving microbial-explicit soil biogeochemistry models	University-Led Research	Belowground	1	A	47
Kenneth	Williams	Susan Hubbard	From Rifle to RMBL: MODEX activities at Berkeley Lab's East River Watershed Study Site	LBNL-SFA (SBR)	LBNL-SFA (SBR)	21	C	65
Stan	Wullschleger	Stan Wullschleger	Next-Generation Ecosystems Experiment (NGEE Arctic): Progress and Plans	NGEE - Arctic	Arctic/permafrost	9ab	C	34
Chonggang	Xu	Nate McDowell	Toward a better prediction of water stress on vegetation dynamics in Earth System Models	LANL (TES)	Flux/Aboveground	1	B	17
Steve	Yabusaki	Susan Hubbard	Rifle Floodplain Water Table Dynamics: Biogeochemical Cycling and Uranium Mobility	LBNL-SFA (SBR)	LBNL-SFA (SBR)	21	C	62

First Name	Last Name	Principal Investigator	Title	Research Area	Poster Group	Room #	Poster Subsection	Poster #
Yu	Yang	Yu Yang	Systematic Investigation of the Biogeochemical Stability of Iron Oxide-Bound Organic Carbon: Linking Redox Cycles and Carbon Persistence	University-Led Research	University (SBR)	21	A	19
Ziming	Yang	Stan Wullschleger	Influences of climate warming on labile organic carbon transformation and mercury methylation in saturated tundra from Barrow, Alaska	NGEE - Arctic	Arctic/permafrost	9ab	A	31
Xiaojuan	Yang		Improve the representation of phosphorus availability and uptake in land surface models	ORNL-SFA (TES)	ORNL SFA/Wetlands	1	B	64
Ming	Ye	Ming Ye	Computational Bayesian Framework for Quantification of Predictive Uncertainty in Environmental Modeling	Early Career	University (SBR)	21	B	54
John	Zachara	John M. Zachara	Pacific Northwest National Laboratory SFA: Hydro-Biogeochemical Process Dynamics in the Groundwater-Surface Water Interaction Zone	PNNL-SFA (SBR)	PNNL-SFA (SBR)	21	B	1
Mavrik	Zavarin	Annie Kersting	Development of Spectroscopic and Computational Methods to Probe Actinide Behavior	LLNL-SFA (SBR)	LLNL-SFA (SBR)	21	C	35
Qing	Zhu	Stan Wullschlegger	Linkage between root competitive traits and tundra nitrogen uptake patterns	NGEE - Arctic	Arctic/permafrost	9ab	D	33