

NEHRP-related Grants

Link to Award Number	Title	Principal Investigator	Organization
GEOSCIENCES DIRECTORATE			
1941953	CAREER: Measuring the tectonic and volcanic stresses* preserved in crystals	Kenneth Befus	Baylor University
1946651	Constraining the release of oxidizing fluids from the mafic slab during subduction	Paul Starr	Boston College
1936254	Community Facility Support: The Global CMT Project	Goran Ekstrom	Columbia University
1753676	Collaborative Research: A Seismic Study of Oceanic-Arc Crustal Construction Processes at the Archetypal Andreanof Segment of the Aleutian Arc	Donna Shillington	Columbia University
1933196	Validating Pressure Gauges for Seafloor Seismology and Geodesy	Spahr Webb	Columbia University
1951142	Cooling During Deformation: An Overlooked Scenario with Implications for the Analysis of Ductily Deformed Rocks	Steven Kidder	CUNY City College
2016995	Collaborative Research: Future Directions for Seafloor Geodesy Workshop 2020	Andrew Newman	Georgia Tech Research Corporation
1951203	Collaborative Research: HIPER - 3D Onshore-Offshore Imaging of Controls on Subduction Zone Megathrust Rupture and Slip Behavior	Anne Meltzer	Lehigh University
2001463	Collaborative Research: Paleoseismology of the M7.3 1915 Pleasant Valley Earthquake Ruptures	Lewis Owen	North Carolina State University
2004684	Collaborative Research: Permanent forearc strain partitioning in Northern Cascadia	Christine Regalla	Northern Arizona University
1945543	CAREER: Impacts of Earthquake Shaking on Seafloor Sediment Stability and Landslide Hazards	Derek Sawyer	Ohio State University
1946347	Collaborative Research: Cascadia2020: Investigating subduction zone segmentation with a 3D high-resolution Vp model	Anne Trehu	Oregon State University
1946434	The granular physics contribution to rate- and state-dependent fault friction	Allan Rubin	Princeton University
1946396	Collaborative Research: Cascadia2020: Investigating subduction zone segmentation with a 3D high-resolution Vp model	Kevin Ward	South Dakota School of Mines and Technology
1947448	Earthquake Sequence Simulations with Thermomechanical Coupling and Fault-Zone Fluid Transport	Eric Dunham	Stanford University
1945513	CAREER: High-resolution Simulations of Subduction Along the Pacific Rim of Fire	Margarete Jadamec	SUNY at Buffalo

1951467	Collaborative Research: Experiments and Simulations at the Nexus of Geophysics, Chemistry, Materials Science and Mechanics to Determine the Physical Basis for Rate-State Friction	James Batteas	Texas A&M University
2016934	Collaborative Research: Future Directions for Seafloor Geodesy Workshop 2020	Donna Charlevoix	UNAVCO, Inc.
1951202	Collaborative Research: HIPER - 3D Onshore-Offshore Imaging of Controls on Subduction Zone Megathrust Rupture and Slip Behavior	Susan Beck	University of Arizona
1948902	Linking Surface Deformation to Slab-Mantle Flow in the Cascadia Subduction Zone through 3D Dynamic Models	Menno Fraters	University of California-Davis
1955127	Development of an integrated Borehole Geodetic and Seismic Sensor: Project Completion	Mark Zumberge	University of California-San Diego Scripps Inst of Oceanography
1935996	Community Seafloor Geodetic Infrastructure for the Measurement of Deformation	C. David Chadwell	University of California-San Diego Scripps Inst of Oceanography
2001541	Collaborative research: Investigating effects of geologic complexity on induced seismicity, using M0-M5.7 seismicity from Prague, Oklahoma	Heather Savage	University of California-Santa Cruz
1940026	Constraining Frictional and Low-Temperature Plastic Rheology of Oceanic Lithosphere by Modeling Observations of Load-Induced Deformation from the Hawaiian Islands to Japan Trench	Shijie Zhong	University of Colorado at Boulder
2019910	RAPID: Capture of ephemeral fault slip data from the North Anatolian slow slip event Dec2019 and triggered slip data from the East Anatolian Mw=6.8 earthquake	Roger Bilham	University of Colorado at Boulder
1927087	Collaborative Research: An Open Access Experiment to Seismically Image Galapagos Plume-Ridge Interaction	Garrett Apuzen-Ito	University of Hawaii
1943742	CAREER: Investigating the Relationship between Fault Damage Zones and Earthquakes through Seismic Observations and Earthquake Cycle Simulations	Yihe Huang	University of Michigan Ann Arbor
1946426	Collaborative Research: Cascadia2020: Investigating subduction zone segmentation with a 3D high-resolution Vp model	Emilie Hooft Toomey	University of Oregon Eugene
1928197	Collaborative Research: An Open Access Experiment to Seismically Image Galapagos Plume-Ridge Interaction	Emilie Hooft Toomey	University of Oregon Eugene

1951462	Collaborative Research: Experiments and Simulations at the Nexus of Geophysics, Chemistry, Materials Science and Mechanics to Determine the Physical Basis for Rate-State Friction	David Goldsby	University of Pennsylvania
2018714	RAPID: Assessing Thermal and Chemical Response of Hot-springs to Puerto Rico's Continuing 2020 Seismic Sequence	Thomas Hudgins	University of Puerto Rico Mayaguez
2022264	RAPID: Quantifying Post-Seismic Crustal Deformation in Southwestern Puerto Rico	Alberto Lopez	University of Puerto Rico Mayaguez
1927133	Collaborative Research: An Open Access Experiment to Seismically Image Galapagos Plume-Ridge Interaction	Yang Shen	University of Rhode Island
2020059	Collaborative Research: Controls on along-strike variations in locked and creeping megathrust behavior at the Hikurangi convergent margin	Demian Saffer	University of Texas at Austin
2022832	Collaborative Research: Unlocking the secrets of slow slip by drilling at the northern Hikurangi subduction margin, New Zealand: CORK observatory development and installation	Demian Saffer	University of Texas at Austin
1940024	CoPe EAGER: Coastal Hazard Planning in Time	Daniel Abramson	University of Washington
1945975	EAGER: Bubble Plume Emissions from Fault Zones within the Puget Sound Forearc	Harlan Johnson	University of Washington
2022468	RAPID GPS data acquisition in Jamaica for coseismic and postseismic studies of the Jan. 28, 2020 M=7.7 Oriente Fault earthquake	Dennis DeMets	University of Wisconsin-Madison
1951314	Collaborative Research: Experiments and Simulations at the Nexus of Geophysics, Chemistry, Materials Science and Mechanics to Determine the Physical Basis for Rate-State Friction	Izabela Szlufarska	University of Wisconsin-Madison
1945763	Acquisition of a Rock Deformation Apparatus to Study Rheology and Microstructure	Philip Skemer	Washington University
1945264	CAREER: Path Dependent Slip of the Shallow Subduction Megathrust	Melodie French	William Marsh Rice University
1753704	Collaborative Research: A Seismic Study of Oceanic-Arc Crustal Construction Processes at the Archetypal Andreanof Segment of the Aleutian Arc	Daniel Lizarralde	Woods Hole Oceanographic Institution
1939311	Construction and Field-Testing of 16 Broadband Ocean Bottom Seismographs for the OBSIC Fleet	John Collins	Woods Hole Oceanographic Institution

ENGINEERING DIRECTORATE

2000560	RAPID/Collaborative Research: Japan-U.S. Collaboration on the Seismic Performance of Reinforced Concrete Structures	Mohamed Moustafa	Board of Regents, NSHE, obo University of Nevada, Reno
2002617	2019 Ridgecrest, California, Earthquake Sequence Sessions at the 2020 National Earthquake Conference; San Diego, California; March 2-6, 2020	Heidi Tremayne	Earthquake Engineering Research Institute
1933217	Earthquake Resilience of the Western Power Grid	Ted Brekken	Oregon State University
1937070	Planning Grant: Engineering Research Center for Built Infrastructure Geospatial Data Acquisition, Visualization, and Analysis (BIGDAVA)	Michael Olsen	Oregon State University
1947448	Earthquake Sequence Simulations with Thermomechanical Coupling and Fault-Zone Fluid Transport	Eric Dunham	Stanford University
1945513	CAREER: High-resolution Simulations of Subduction Along the Pacific Rim of Fire	Margarete Jadamec	SUNY at Buffalo
1944301	CAREER: Leveraging Existing Knowledge and Artificial Intelligence to Understand the Performance of Civil Infrastructure Under Extreme Hazard Loads	Stephanie Paal	Texas A&M Engineering Experiment Station
1951467	Collaborative Research: Experiments and Simulations at the Nexus of Geophysics, Chemistry, Materials Science and Mechanics to Determine the Physical Basis for Rate-State Friction	James Batteas	Texas A&M University
2016934	Collaborative Research: Future Directions for Seafloor Geodesy Workshop 2020	Donna Charlevoix	UNAVCO, Inc.
1951202	Collaborative Research: HIPER - 3D Onshore-Offshore Imaging of Controls on Subduction Zone Megathrust Rupture and Slip Behavior	Susan Beck	University of Arizona
2006323	RAPID: Group Effects on Pile Downdrag Following Liquefaction	Richard Coffman	University of Arkansas
1948902	Linking Surface Deformation to Slab-Mantle Flow in the Cascadia Subduction Zone through 3D Dynamic Models	Menno Fraters	University of California-Davis
1955127	Development of an integrated Borehole Geodetic and Seismic Sensor: Project Completion	Mark Zumberge	University of California-San Diego Scripps Inst of Oceanography
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2001541	Collaborative research: Investigating effects of geologic complexity on induced seismicity, using M0-M5.7 seismicity from Prague, Oklahoma	Heather Savage	University of California-Santa Cruz

1940026	Constraining Frictional and Low-Temperature Plastic Rheology of Oceanic Lithosphere by Modeling Observations of Load-Induced Deformation from the Hawaiian Islands to Japan Trench	Shijie Zhong	University of Colorado at Boulder
2019910	RAPID: Capture of ephemeral fault slip data from the North Anatolian slow slip event Dec2019 and triggered slip data from the East Anatolian Mw=6.8 earthquake	Roger Bilham	University of Colorado at Boulder
2022390	RAPID/Collaborative Research: Multi-Hazard Damage to Puerto Rico's Civil Infrastructure - Investigation of the Interactions of 2017 Hurricane Maria and 2020 Earthquake Sequence	Arash Esmaili Zaghi	University of Connecticut
1927087	Collaborative Research: An Open Access Experiment to Seismically Image Galapagos Plume-Ridge Interaction	Garrett Apuzen-Ito	University of Hawaii
1943742	CAREER: Investigating the Relationship between Fault Damage Zones and Earthquakes through Seismic Observations and Earthquake Cycle Simulations	Yihe Huang	University of Michigan Ann Arbor
2001957	RAPID/Collaborative Research: Households Immediate Response During a Night Time Earthquake	Hao-Che Wu	University of North Texas
1943917	CAREER: Mitigation of Seismic Risk to Critical Building Contents via Optimum Nonlinear 3D Isolation	Philip Harvey Jr.	University of Oklahoma Norman Campus
1946426	Collaborative Research: Cascadia2020: Investigating subduction zone segmentation with a 3D high-resolution Vp model	Emilie Hooft Toomey	University of Oregon Eugene
1928197	Collaborative Research: An Open Access Experiment to Seismically Image Galapagos Plume-Ridge Interaction	Emilie Hooft Toomey	University of Oregon Eugene
1951462	Collaborative Research: Experiments and Simulations at the Nexus of Geophysics, Chemistry, Materials Science and Mechanics to Determine the Physical Basis for Rate-State Friction	David Goldsby	University of Pennsylvania
2018714	RAPID: Assessing Thermal and Chemical Response of Hot-springs to Puerto Rico's Continuing 2020 Seismic Sequence	Thomas Hudgins	University of Puerto Rico Mayaguez
2022264	RAPID: Quantifying Post-Seismic Crustal Deformation in Southwestern Puerto Rico	Alberto Lopez	University of Puerto Rico Mayaguez

1927133	Collaborative Research: An Open Access Experiment to Seismically Image Galapagos Plume-Ridge Interaction	Yang Shen	University of Rhode Island
1940197	Dual System Strongback Designs for Seismic Damage-Resistant Structures	Mark Denavit	University of Tennessee Knoxville
1944513	CAREER: Protecting Buildings and Structures from Vibration Damage using Variable Inertance Mechanisms	Nicholas Wierschem	University of Tennessee Knoxville
2020059	Collaborative Research: Controls on along-strike variations in locked and creeping megathrust behavior at the Hikurangi convergent margin	Demian Saffer	University of Texas at Austin
2022832	Collaborative Research: Unlocking the secrets of slow slip by drilling at the northern Hikurangi subduction margin, New Zealand: CORK observatory development and installation	Demian Saffer	University of Texas at Austin
2000478	RAPID/Collaborative Research: Japan-U.S. Collaboration on the Seismic Performance of Reinforced Concrete Structures	Paolo Calvi	University of Washington
1940024	CoPe EAGER: Coastal Hazard Planning in Time	Daniel Abramson	University of Washington
1945975	EAGER: Bubble Plume Emissions from Fault Zones within the Puget Sound Forearc	Harlan Johnson	University of Washington
2022468	RAPID GPS data acquisition in Jamaica for coseismic and postseismic studies of the Jan. 28, 2020 M=7.7 Oriente Fault earthquake	Dennis DeMets	University of Wisconsin-Madison
1951314	Collaborative Research: Experiments and Simulations at the Nexus of Geophysics, Chemistry, Materials Science and Mechanics to Determine the Physical Basis for Rate-State Friction	Izabela Szlufarska	University of Wisconsin-Madison
2002382	RAPID: Evaluation of Pre and Post Blast Liquefaction Soil and Site Parameters	Jonathan Hubler	Villanova University
1945763	Acquisition of a Rock Deformation Apparatus to Study Rheology and Microstructure	Philip Skemer	Washington University
2022427	RAPID/Collaborative Research: Multi-Hazard Damage to Puerto Rico's Civil Infrastructure - Investigation of the Interactions of 2017 Hurricane Maria and 2020 Earthquake Sequence	Jamie Padgett	William Marsh Rice University
1945264	CAREER: Path Dependent Slip of the Shallow Subduction Megathrust	Melodie French	William Marsh Rice University

1753704	Collaborative Research: A Seismic Study of Oceanic-Arc Crustal Construction Processes at the Archetypal Andreanof Segment of the Aleutian Arc	Daniel Lizarralde	Woods Hole Oceanographic Institution
1939311	Construction and Field-Testing of 16 Broadband Ocean Bottom Seismographs for the OBSIC Fleet	John Collins	Woods Hole Oceanographic Institution

COMPUTER AND INFORMATION SCIENCES DIRECTORATE

1942053	RAPID: A Smart and Mobile Sensor Fusion Framework for Earthquake Hazard Reduction, Situational Assessment, and Relief Efforts	Karen Panetta	Tufts University
1931352	Elements: PASSPP: Provenance-Aware Scalable Seismic Data Processing with Portability	Yinzhi Wang	University of Texas at Austin

OTHER DIRECTORATES

1929151	RII Track-4: Quantifying Seismic Resilience of Multi-Functional Floor Isolation Systems through Cyber-Physical Testing	Philip Harvey Jr.	University of Oklahoma Norman Campus
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