Fall 2020 Seminars

	Name	Affiliation	Title
September 1	Matti Morzfeld	UCSD	What is Bayesian inference, why is it useful in Earth science and why is it challenging to do numerically?
September 8	Susan Schwartz	UCSC	Where's Waldo? The Application of Template Matching to Understanding Fault and Glacier Mechanics
September 15	Lars Stixrude	UCLA	Planetary magnetic fields produced by silicate dynamos
September 22	Sylvain Barbot	USC	Excitation of San Andreas tremors by thermal instability below the seismogenic zone
September 29	Kevin Kwong	U. Washington	Insights into seismic deformation and subducting slab structure beneath Ecuador using teleseismic relocation and tomography
October 6	Magali Billen	UC Davis	Deep slab seismicity limited by rate of deformation in transition zone
October 13	Laura Wallace	GNS Science, New Zealand and University of Texas Institute for Geophysics	Relationships between slow slip events, megathrust locking, and seismicity at the Hikurangi subduction zone, New Zealand
October 20	Ebru Bozdag	CSM	Investigation of the Earth's mantle & outer core with 3D wave simulations
October 27	Frederik Simons	Princeton University	Through the Ocean to the Mantle: Twenty Thousand Leagues Under the Seas with a Fleet of Floating Seismic Robots
November 3			No seminar

November 10	Dan Shim	Arizona State University	Calcium Dissolution in Bridgmanite in the Earth's Deep Mantle
November 17	Brandon Schmandt	University of New Mexico	Seismically imaging magma reservoirs under large silicic calderas
November 24	Alex Robson	UC Berkeley	Exit Seminar
December 1	Ved Lekic	University of Maryland	To Be Announced

Spring 2020 Seminars

	Speaker	Affiliation	Title
Janury 21	**Arthur Rodgers**	LLNL	Toward Exascale Earthquake Ground Motion Simulations: Mw 7.0 Hayward Fault Ruptures
January 28	**Heather Shaddox**	UC Santa Cruz	Burst-type Repeating Earthquakes as a Proxy for Transient Aseismic Slip
February 4	**Max Wyss**	ICES International Centre for Earth Simulation Foundation	Estimating fatalities in earthquakes, and why probabilities of large earthquakes cannot be estimated based on the Gutenberg-Richter relation
February 11	**Sue Hough**	USGS, Pasadena	Earthquake Ground Motions and Building Damage: The Long and Short of It
February 18	**Tarje Nissen-Meyer**	Oxford University (visiting at Stanford)	Good Vibrations? Deciphering complex wavefields for deep Earth, shallow planets, explosions and elephants
February 25	**Vashan D. Wright**	LSU (BSL visitor)	Neotectonics and Aging Sands: A Jamaican Story
March 3	**Federico Munch**	BSL postdoc	Determining Earth's mantle thermo-chemical structure from joint analysis of seismic and electromagnetic sounding data
March 10	**Seminar canceled**		
March 17	**Yann Klinger** **(Presented remotely via Zoom.)**	BSL/IPGP	The Dead Sea fault, a strike-slip fault model
March 24	**Spring Recess - no seminar**		
March 31	**Avinash Nayak (presented via Zoom only)**	LBNL	Joint inversion of body-wave travel times and surface-wave dispersion in Central California and identification of higher mode Rayleigh waves (Video Recording) (https://drive.google.com/file/d/16FP1oDBK2mkFSkFTIeMjgTRn6o6oVBOG/view)
April 7	**Luca Dal Zilio**	Caltech	Building of the Himalaya Across Scales: From Tectonics to Earthquakes (Video Recording) (https://drive.google.com/a/berkeley.edu/file/d/1Ppy7mDHaKYsXOYniUDGReeoCh6_vak_W/view?usp=sharing)
April 14	**Yen Joe Tan**	Stanford	Axial Seamount as a unique laboratory to study how stress changes affect earthquake occurrence

April 21	**Johanna M. Nevitt**	USGS, Moffett Field	Mechanical controls on fault slip and deformation at Earth's surface during the 2014 M6.0 South Napa earthquake
April 28	**Eric Lindsey**	Earth Observatory of Singapore	Unlocking the physics of earthquake hazards with geodesy: Megathrusts, mountains and Myanmar (Video Recording) (https://drive.google.com/a/berkeley.edu/file/d/1M8GgEYDs1RWrhYWhqKAcJFD6ipVNQL_c/view?usp=sharing)

Fall 2019 Seminars:

	Speaker	Affiliation	Title
September 3	**Marco Bohnoff**	GFZ	Seismomechanical reservoir characterization and controlling induced seismicity: Recent examples from The Geysers/California and Helsinki/Finland geothermal projects
September 10	**Robert Martin-Short**	BSL	Multi-scale seismic imaging of the Alaskan subduction zone
September 17	**Lauren Waszek**	New Mexico State University	Thermochemical controls for the visibility of upper and mid-mantle discontinuities
September 24	**Kathryn Materna**	BSL	Seismic coupling on plate boundary faults at the Mendocino Triple Junction
October 1	**Stuart Russell**	Berkeley	Global seismic monitoring: A Bayesian approach
October 8	**Chi-Yuen Wang**	BSL	Earthquake effects on groundwater - studied with Earth tides
October 15	**Men-Andrin Meier**	Caltech	Harnessing the Power of Deep Learning Algorithms to Design the Next-Generation Seismic Monitoring System
October 22	**Sylvain Barbot**	USC	From the microphysics of faulting to subduction-zone dynamics: constitutive and structural controls on the seismic cycle
October 29	**Amy Williamson**	U Oregon	Coseismic or Landslide? The source of the 2018 Palu Tsunamis
November 5	**Dan Frost**	BSL	Dynamic history of the inner core constrained by seismic anisotropy
November 12	**Camilla Emily Penney**	Cambridge	The role of lateral rheology contrasts in the evolution of mountain ranges: insights from South East Tibet
November 19	**Jeremy Maurer**	JPL	Geodetic remote sensing constrains moment release from the 2017/2018 combined SSE and earthquakes near Guerrero, Mexico
November 26	**THANKSGIVING - no seminar**		
December 3	**Jeff McGuire**	USGS Menlo Park	Imaging the subducted Gorda plate from the deformation front to the ETS zone
December 10	**AGU - no seminar**		
December 17	**Felipe Orellana**	University of the Chinese Academy of Sciences	Thermo-chemical plume interactions with mantle viscosity layering and phase transformations: comparisons with seismic imaging

Spring 2019 Seminars:

Title	Speaker	Affiliation	Title
January 29	**Dr. Walter Mooney**	USGS/Menlo Park	The Upper Mantle Beneath North America: A New View from USArray Data
February 5	**Prof. William Frank**	USC	Self Diagnostic low-frequency earthquakes and the slow slip that drives them
February 12	**Prof. Michael Bostock**	Univ. of British Columbia	Controls on Seismicity in Cascadia
February 19	**Prof. Cliff Thurber**	Univ. of Wisconsin	What lies beneath Laguna del Maule, Chile?
February 26	**Camilla Cattania**	Stanford U.	Crack models to explain seismic cycles at different scales: small repeating earthquakes and vertical strike slip faults
March 5	**Dr. Arben Pitarka**	LLNL	Ground Motion Simulations of the M7, 2016 Kumamoto, Japan Earthquake Using Physics Based Rupture Models
March 12	**Prof. Philippe Lognonné**	IPG Paris	SEIS on Mars: Development challenges and first observations Abstract
March 19	**Prof. Ebru Bozdag**	Colorado School of Mines	Imaging Earth's mantle with adjoint tomography: From measurements to interpretation
March 26	**Spring Break**		
April 2	**Guang Zhai**	BSL postodc	Mechanical Modeling of Fluid-Rock Interactions: Volcano Deformation and Induced Seismicity
April 9	**Felipe Gonzalez**	EPS postdoc	Melting and stability of minerals at high pressure: consequences for Super-Earths and gas giants
April 16	**Prof. Heather Ford**	UC Riverside	Imaging the mantle structure of cratons: Implications for the formation and modification of the Wyoming lithosphere
April 23	**Mark Jellinek**	U. of British Columbia	Ice, fire or fizzle: The climate footprint of Earth's supercontinental cycles
Tuesday, April 30	**Jill Banfield (Faculty Research Lecture) 4PM Sibley Auditorium Bechtel Engineering Center**		**Mysteries of the Invisible World of Microbes**
May 7	**Tushar Mittal**	U.C Berkeley	Eruptive tempo and climatic impact of the Deccan Traps

Fall 2018 Seminars:

	Speaker	Affiliation	Title
August 28	**Kayla Kroll**	Lawrence	Testing the Efficacy of

February 14	**Han Yue**	Caltech	The 2016 Kumamoto Earthquake Sequence:how the main shock starts and stops
February 21	**Ana Aguiar Moya**	Lawrence Livermore National Laboratory	Data Mining Microseismicity using PageRank
February 28	**Pierre Dutilleul**	McGill University	Multi-frequential periodogram and correlation analyses of earthquake numbers and hypocenter depths in central California
March 7	**Bill Hammond**	University of Nevada, Reno	GPS Imaging of Earth's Vertical Motion: From Sierra Nevada to North America
Monday, March 13, special seminar Room 141 McCone (no seminar March 14th)			
March 13	**Harriet Lau**	Harvard	Tidal Tomography and Deep Mantle Buoyancy **(Monday seminar)**
March 21	**Asaf Inbal**	BSL	Transient aseismic deformation and deep seismicity along the San-Jacinto and the Newport-Inglewood faults
March 28		***spring break***	
April 4	**Yves Guglielmi**	Lawrence Berkeley National Laboratory	Exploring processes of induced seismicity from mesoscale field experiments
April 11	**Amir Allam**	University of Utah	The Denali Fault as a Plate Boundary: New Results from Double-difference Tomography, Receiver Functions, and Fault Zone Head Waves
April 18	**Matt Hornbach**	Southern Methodist University	Seismic Imaging of hydrates on US Margins (Arctic/Atlantic) with implications for hydrate/margin stability and climate
April 25	**Chris Johnson**	BSL	Exit Seminar
May 2	**Felipe Orellana Rovirosa**	BSL	Exit Seminar
May 9	**Anya Reading**	University of Tasmania	Ocean Microseisms and Antarctic Lithosphere: Seismological and Interdisciplinary Investigations

Fall 2016 Seminars:

	Speaker	Affiliation	Title
Aug 30	**Kuo Fong Ma**	National Central University, Taiwan	Investigation on fault zone and fluid migration activity after the 1999 M7.6 Chi-Chi, Taiwan, earthquake
Sept 6	**Janire Prudencio**	BSL	2D and 3D attenuation tomographies of active volcanoes
Sept 13	**William Walter**	Lawrence Livermore National Laboratory	Explosion Monitoring and the Source Physics Experiment (SPE)

March 31	**Estelle Chaussard**	UC Berkeley	Interseismic deformation and potential for larger earthquakes on the Hayward-Calaveras Fault system
April 7	**Jiayi Xie**	University of Colorado Boulder	Inferring the oriented elastic tensor from surface wave observations: Preliminary application across the Western US
April 14	**Sarah Bennett**	Stanford University	Dig a Little Deeper: Decoding Intermediate-depth Earthquakes
April 21 (Cancelled)	**Stephen Morris**	UC Berkeley	Modelling of slab-scale stresses caused by the olivine-spinel transformation
April 28	**Anne Obermann**	Swiss Seismological Service (SED) at ETH Zurich	Monitoring with ambient noise: applications to volcanoes, fault zones and injection wells

Fall 2014 Seminars:

	Speaker	Affiliation	Title
September 2	**Pierre Boue**	Stanford	Teleseismic body waves retrieval from ambient seismic noise correlation
September 9	**Allen McNamara**	ASU	Understanding the compositional structure of Earthâ©ràs mantle
September 16	**Yousef Bozorgnia**	UC Berkeley	NGA-West2 Research Project
September 23	**Angie Chung**	Stanford	Rapidly Evaluating Damage Using High Density Networks in Noisy Urban Environments
September 30	**Artie Rodgers**	LLNL	Simulations of Earthquake Ground Motions in the San Francisco Bay Area
October 7	**Justin Rubinstein**	USGS	Determining the Seismic Hazard of Natural and Induced Earthquakes
October 14	**Zhongwen Zhan**	UC San Diego	Rupture complexity of deep earthquakes: the large, the hot, and the fast
October 21	**Adrien Arnulf**	UC San Diego	Anatomy of an active submarine volcano using wavefield based techniques
October 28	**Ben Brooks**	USGS	Harvesting point clouds: Near field deformation from the South Napa Earthquake from Mobile Laser Scanning geodesy
November 4	**Meghan Miller**	USC	Imaging the upper mantle structure of northwest Africa: Influence of mantle flow on continental deformation
November 11	**NONE - Veterans Day**		
November 18	**Sang-Ho Yun**	JPL	InSAR Error Budget in the Air
November	**Diego Melgar**	UC Berkeley	Tsunami inundation prediction