

Workshop on Modeling Earthquake Source Processes October 8-10, 2018

10/8/18 Day 1: Fault zone structure and processes	Location	Speakers	Discussion Leaders
8:30-9:00 Registration and coffee	Outside of Arms Building		
9:00-9:10 Welcome from Caltech	Sharp Lecture Hall (155 Arms)	Gurnis	
9:10-9:20 Introduction from NSF	Sharp Lecture Hall (155 Arms)	Zanzerkia	
9:20-10:00 Workshop goals and agenda	Sharp Lecture Hall (155 Arms)	Lapusta	
10:00-10:15 Coffee break	Outside of Arms Building		
10:15-11:45 Plenary session 1.1: Seismogenic fault shear zones and surrounding regions: roughness, gouge layers, shear localization, damage/healing, fluid effects, and the resulting resistance to shear	Sharp Lecture Hall (155 Arms)	Dunham, Brantut, Kitajima	
11:45-1:30 Lunch and small-group discussions on workshop goals	Athenaeum		
1:30-3:00 Plenary session 1.2: Variation of fault zone properties with depth, base of the seismogenic zone	Hameetman Auditorium	Faulkner, Fialko, Rowe	
3:00-3:30 Coffee break	Outside of Hameetman Auditorium		
3:30-4:30 Plenary session 1.3: Big computations/big data	Hameetman Auditorium	Beroza, Rodgers	
4:30-5:15 Break out discussion 1: Fault zones, their structure and properties: new research to advance our understanding and develop models suitable for modeling on various spatial scales	Millikan Board Room (117 Millikan Library) Salvatori Room (365 South Mudd) Buwalda Room (151 Arms)		Oglesby, Hirth; Bhat, Griffith; Burgmann, Manighetti
5:30-8:30 Poster session and reception	Outside North Mudd and Arms		

10/9/18 Day 2: Bridging scales	Location	Speakers	Discussion Leaders
7:45-8:00 Coffee	Outside of Arms Building		
8-9:30 Plenary session 2.1: Earthquakes and aseismic slip: modeling strategies and observational constraints	Sharp Lecture Hall (155 Arms)	Ampuero, Lay, Avouac	
9:30-10:00 Coffee break	Outside of Arms Building		
10:00-11:00 Plenary discussion of fault zone structure and processes (day 1), including short reports of the break out discussions	Sharp Lecture Hall (155 Arms)		Di Toro
11:00-11:45 Break out discussion 2.1: Observational constraints, their uncertainty, and ways to improve them	Benioff Room (254 South Mudd) Salvatori Room (365 South Mudd) Buwalda Room (151 Arms)		Gomberg, Freymueller; Park, Sone; Thomas A., Simons
11:45-1:30 Lunch and small-group discussions on bridging scales	Avery		
1:30-3:00 Plenary session 2.2: Coupling fluids and faulting	Sharp Lecture Hall (155 Arms)	Brodsky, Townend, Segall	
3:00-3:30 Coffee break	Outside of Arms Building		
3:30-5:00 Plenary session 2.3: Modeling fault system dynamics and evolution, connection to tectonics	Sharp Lecture Hall (155 Arms)	Dieterich, van Dinther, Lavier	
5:00-5:45 Break out discussions 2.2: Modeling strategies for integrating knowledge on multiple temporal and spatial scales	135 Gates Thomas Classroom (162 South Mudd) Buwalda Room (151 Arms)		Beeler, Bruhat; Barbot, Tullis; Olsen, Trugman
6:00-7:00 Light refreshments	Benioff Room (254 South Mudd)		

10/10/18 Day 3: Targeted areas, initiatives, and community building	Location	Speakers	Discussion Leaders
7:45-8:00 Coffee	Outside of Arms Building		
8:00-10:00 Plenary session 3.1: Targeted advances (modeling ecosystem; field experiments/drilling; dense networks; lab studies)	Sharp Lecture Hall (155 Arms)	Gabriel, Ellsworth, Ben-Zion, Zhu	
10:00-10:30 Coffee break	Outside of Arms Building		
10:30-11:45 Plenary session 3.2: Relevant existing or proposed communities (SCEC, CIG, SZ4D), further community building	Sharp Lecture Hall (155 Arms)	Vidale, Aagaard, Becker	
11:45-1:15 Lunch and small-group discussions on targeted areas and initiatives	Avery		
1:15-2:00 Break out discussions 3: Targeted areas for rapid progress within the next 10 years; new community initiatives that would provide substantial boost to the field; improving exchange of knowledge and collaborations between numerical modelers, laboratory experimentalists, and field/observational scientists	Benioff Room (254 South Mudd) Salvatori Room (365 South Mudd) Buwalda Room (151 Arms)		Cattania, Niemeijer; Prieto, Tobin; Erickson, Marone
2:00-3:00 Plenary discussion of bridging scales (day 2), including short reports of break out discussions	Sharp Lecture Hall (155 Arms)		Denolle
3:00-3:15 Coffee break	Outside of Arms Building		
3:15-4:00 Plenary discussion of targeted areas and initiatives, including short reports of break out discussions	Sharp Lecture Hall (155 Arms)		Lapusta
4:00 Workshop ends			
4:30-6:00 Planning for the white paper by the writing group	Benioff Room (254 South Mudd)		

Information for Wireless Access

Name of the Preferred Network: 'Caltech Conference'

Username: Earthquakes

Password: Modeling2018

If "Caltech Conference" is not available, please use 'Caltech Visitor'

Once connected, open a web browser and go to www.caltech.edu.

You will be redirected to an Authentication page where you can enter the above credentials.