

2026

SCEC ANNUAL MEETING

August 30-September 2 | HILTON PALM SPRINGS, CA



STATEWIDE CALIFORNIA EARTHQUAKE CENTER



Statewide California Earthquake Center (SCEC)

With funding from the National Science Foundation, U.S. Geological Survey, and other sources, SCEC collaborates with academic, government, industry, and other organizations to: (1) Gather and analyze data from field observations and laboratory experiments. (2) Develop system-level models and simulations of earthquake processes to synthesize knowledge as a physics-based understanding of seismic hazard. (3) Communicate that understanding to expand knowledge and reduce earthquake risk.

SCEC's mission is to develop and share cutting-edge earthquake system science to enhance California's resilience and to educate and inspire future scientists.

SCEC is a consortium of more than 90 institutions and a **community of over a thousand individuals**, guided by diverse leadership teams to fulfill the Center's mission.

The Statewide California Earthquake Center builds on SCEC's legacy of leveraging cutting-edge research, interdisciplinary collaborations, and a systems-level approach. SCEC now focuses on the entire San Andreas Fault System which allows us to: **Address key science questions** in a broader tectonic context, **Strengthen partnerships** across disciplines to improve earthquake science and hazard analysis, and **Engage a wider range of participants**, from academia and government to the public.



Sunday, August 30

www.scec.org/meetings/2026/am

- 13:00 - 15:30 SCEC Annual Meeting Check-In, *Hilton Lobby*
- 13:00 - 15:30 Poster Setup: Group A, *Plaza Ballroom and Hilton Lobby*
- 15:30 - 17:00 Session 1: The State of SCEC, *Horizon Ballroom***
Why Earthquake System Science Matters Now. The Sunday opening session will include the State of SCEC address from the Director and a 35th-anniversary recognition of SCEC's scientific accomplishments, community impact, and major service contributions. This will set the stage for SCEC2026 and the Center's next phase.
- Moderator: Greg Beroza (USC)
- 15:30 - 16:00 State of SCEC from the Director, Ahmed Elbanna (USC)
- 16:00 - 16:15 Community Engagement & Workforce Development, Mark Benthien (USC)
- 16:15 - 16:50 Outcomes from 2026 SCEC Community Science Workshops
- 16:50 - 17:00 Q&A
- 17:00 - 17:30 Break
- 17:30 - 18:30 Distinguished Speaker:** Roland Bürgmann (UC Berkeley) on "Aseismology - Learning from slow fault slip in California"
- 18:30 - 20:00 Welcome Dinner, *Hilton Poolside*
- 20:00 - 22:00 Poster Viewing 1 (Group A), *Plaza Ballroom, Hilton Lobby, and Online Poster Gallery***

Monday, August 31

- 07:00 - 08:00 Continental Breakfast, *Hilton Poolside*
- 07:00 - 08:00 SCEC Transitions Program Breakfast Club, *Tapestry Room***
Join fellow students and early-career peers and connect with experienced SCEC researchers in a relaxed, informal setting. Participants will gain valuable insights on networking strategies, fostering collaboration, maintaining work-life balance, and more.
- 08:00 - 09:30 Session 2. Get Ready to ShakeOut, *Horizon Ballroom***
Preparing California for the Next Great Earthquake. This session will highlight the role of transdisciplinary collaboration across earthquake science, earthquake engineering, social sciences, and risk modeling in strengthening public preparedness and statewide resilience. Invited speakers will discuss lessons from large earthquake scenarios, other major earthquakes, and advances in risk communication in helping communities, agencies, and decision-makers prepare for future seismic events.
- Moderator: W. Ashley Griffith (Ohio State)
- 08:00 - 08:10 Remarks from SCEC Sponsor, Jonn Foster (FEMA)
- 08:10 - 08:30 ShakeOut Scenario 2.0: Leading the way for a Quake-safe Future Across California, Lucy Jones (Caltech)
- 08:30 - 08:50 Building the scientific foundations of the ShakeOut Scenario 2.0, Kate Scharer (USGS)
- 08:50 - 09:10 Scenarios as agents of change, Sara McBride (CSSC)
- 09:10 - 09:30 Community Discussion
- 09:30 - 10:00 Break

10:00 - 11:30	Session 3. Frontiers in Statewide California Earthquake System Science I – Observing the Earthquake Cycle, <i>Horizon Ballroom</i> <u>New Frontiers in Geodesy, Geology, and Distributed Sensing.</u> This session will highlight observational advances and data needs for understanding the earthquake cycle across California. Invited speakers will discuss observations from seismology, earthquake geology, geodesy, remote sensing, distributed acoustic sensing, and imaging of crustal structure and fluids. The session will emphasize how new observing capabilities can support SCEC's statewide mission while identifying persistent data gaps across the transform plate boundary. <u>Moderator:</u> Gareth Funning (UCR)
10:00 - 10:10	Remarks from SCEC Sponsor, Gavin Hayes (USGS)
10:10 - 10:30	From Seconds to Millennia: Fault Mechanics Across the Earthquake Cycle, Alba Rodriguez Padilla (USU)
10:30 - 10:50	Better Earthquake Imaging Through NISAR, Molly Zebker (UCSD)
10:50 - 11:15	Community Discussion
11:15 - 11:30	2026 SCEC Technical Activity Groups: • Creep Rate, Episodicity, and Earthquake Potential (CREEP) TAG, Christie Rowe (UNR) • Integrating Community Research into a Consensus Geodetic Model (CGM) TAG, Katia Tymofyeyeva (NASA JPL)
11:30 - 12:00	Live Poster Lightning Talks (Group A), <i>Horizon Ballroom</i>
12:00 - 14:00	Group Lunch, <i>Hilton Poolside, Terrace Restaurant, Tapestry Room</i>
14:00 - 15:30	Session 4. Frontiers in Statewide California Earthquake System Science II – Modeling the Earthquake Cycle, <i>Horizon Ballroom</i> <u>New Frontiers in Physics-Based Multi-cycle Earthquake Simulations.</u> This session will focus on modeling approaches that connect earthquake processes across spatial and temporal scales. Topics will include earthquake-cycle simulations, dynamic rupture modeling, multicycle and system-level models, AI-accelerated simulations, complex fault geometries, and time-dependent seismic hazard. The session will also consider how models can be tested against observations and how simulation-based science can inform future hazard assessment and community products. <u>Moderator:</u> Morgan Page (USGS)
14:00 - 14:10	Remarks from SCEC Sponsor, Luciana Astiz (NSF)
14:10 - 14:30	From hazard to design variable: slip-induced permeability enhancement in understressed faults and the future of geothermal energy, Taeho Kim (Stanford)
14:30 - 14:50	Why we need Multicycle Physics-Based Earthquake Simulators, Ned Field (USGS)
14:50 - 15:15	Community Discussion
15:15 - 15:30	2026 SCEC Technical Activity Groups: • Understanding Natural Recurrence of Earthquakes and Slip over Time (UNREST) TAG, Mike Oskin (UC Davis) • Advancing Simulations of Sequences of Earthquakes and Aseismic Slip (SEAS) TAG, Brittany Erickson (U of Oregon)
15:30 - 17:30	Poster Viewing 2 (Group A): <i>Plaza Ballroom and Hilton Lobby, and Online Poster Gallery</i>
17:30 - 18:00	Poster Switch Out: Group A posters removed by 6:00 pm. Group B posters installed by 6:30 pm.
18:30 - 20:00	Group Dinner, <i>Hilton Poolside</i>
20:00 - 22:00	Poster Viewing 3 (Group B), <i>Plaza Ballroom and Hilton Lobby, and Online Poster Gallery</i>

07:00 - 08:00	Continental Breakfast, <i>Hilton Poolside</i>
08:00 - 09:30	Session 5. Frontiers in Statewide California Earthquake System Science III – Physics-Based Seismic Hazard Analysis & Ground Motion Forecasting, <i>Horizon Ballroom</i> <u>Transforming Earthquake Physics into Hazard Information</u>. This session will showcase SCEC community products and their role in connecting earthquake science to practical applications. Short presentations will highlight products such as Community Earth Models, CyberShake, and the Broadband Platform. The session will focus on current capabilities, statewide expansion, validation needs, and opportunities to make SCEC products more useful to researchers, engineers, and agencies. <u>Moderator</u>: Morgan Moschetti (USGS)
08:00 - 08:20	SCEC's Earthquake Rupture and Ground Motion Forecasting Capabilities, Xiaofeng Meng (USC)
08:20 - 08:40	SCEC's Physics-Based Seismic Hazard Modeling Platforms, Scott Callaghan (USC)
08:40 - 09:00	SCEC Ground Motion Tools Supporting Engineering Applications, Edric Pauk (USC)
09:00 - 09:30	2026 SCEC Technical Activity Groups: • Next Generation 3D Community Fault Model for California (CFM) TAG, Scott Marshall (Appalachian State) • Multi-scale Community Velocity Model (CVM) TAG, Kim Olsen (SDSU) • Community Stress Drop Validation Study TAG, Annemarie Baltay (USGS) and Rachel Abercrombie (Boston U)
09:30 - 10:00	Break
10:00 - 11:30	Session 6. Who Uses Earthquake Science—and What Do They Need Next?, <i>Horizon Ballroom</i> <u>Perspectives from Practitioners and the User Community</u>. This moderated panel will bring together industry and partner perspectives on how SCEC products and science are used in practice. Panelists will discuss needs from utilities, engineering, insurance, and building-code development. The discussion will identify where SCEC science has had practical impact, where product development or communication can be improved, and how partnerships can support California's earthquake resilience. <u>Moderators</u>: Jillian Maloney (SDSU) and Tran Huynh (USC)
10:00 - 10:20	2026 SCEC Technical Activity Groups: • Shallow Earth Materials (SEM) TAG, Ashley Griffith (OSU) • Next-Generation Ground Motion Simulation, Validation, and Utilization (GM-SVU) TAG, Sanaz Rezaeian (USGS)
10:20 - 10:40	Practitioner Decision Stories: • Insurance and Financial Risk Decisions, Shawna Ackerman (CEA) • Utilities and Infrastructure Risk Decisions, Albert Kottke (PGE) • Engineering Practice and Building Codes, C.B. Crouse (AECOM)
10:40 - 11:15	Community Discussion: Exploring the Gaps
11:15 - 11:30	Community Discussion: Collective Opportunities
11:30 - 12:00	Live Poster Lightning Talks (Group B) , <i>Horizon Ballroom</i>
12:00 - 14:00	Group Lunch, <i>Hilton Poolside, Terrace Restaurant, Tapestry Room</i>



14:00 - 15:30 Session 7. Translating Earthquake Science into Action, Horizon Ballroom

Building More Resilient Communities Through Engineering, Policy, and Planning. This session will examine how earthquake science informs societal resilience and public policy. Topics may include cascading hazards, infrastructure impacts, emergency planning, and risk communication. The session will emphasize how SCEC can help translate scientific advances into actionable knowledge for communities, agencies, policymakers, and the public.

Moderator: Christie Rowe (UNR)

- 14:00 - 14:10 Remarks for SCEC Sponsor, Jose Lara (Cal OES)
- 14:10 - 14:30 Closing the Earthquake Science to Public Action Gap, Lori Peek (CU Boulder)
- 14:30 - 14:50 Science, Safety and Solvency: Working with Governments, Utilities and Insurers to Enhance California's Earthquake Readiness and Resilience, Laurie Johnson (LJC)
- 14:50 - 15:15 Community Discussion
- 15:15 - 15:30 Remarks from the SCEC External Advisory Council: Steve Bohlen (LLNL, retired)
- 15:30 - 17:30 Poster Viewing 4 (Group B): Plaza Ballroom and Hilton Lobby, and Online Poster Gallery**
- 17:30 - 18:00 Poster Switch Out: Group B posters removed by 6:00 pm.
- 18:30 - 20:00 Group Dinner, *Hilton Poolside*

07:00 - 08:00	Continental Breakfast, <i>Hilton Poolside</i>
08:00 - 09:30	Session 8. Open Problems in Earthquake System Science, <i>Horizon Ballroom</i> <u>Scientific Grand Challenges for the Next Decade.</u> This moderated panel will explore grand open questions in earthquake science and the opportunities created by SCEC's statewide scope, new TAG structure, and expanded partnerships. The session will bring together diverse viewpoints and career stages to identify scientific questions that SCEC is uniquely positioned to address. <u>Moderators:</u> Alice Gabriel (UCSD) and Greg Beroza (Stanford)
08:00 - 08:15	2026 SCEC Technical Activity Groups: • Northern California Cascadia–San Andreas Transition (NORCAT) TAG, Vera Schulte-Pelkum (CU Boulder) • Sierra Earthquake Risk Reduction (SiERRa) TAG, Rich Koehler (UNR)
08:15 - 08:30	Panelists Opening Statements: • Camilla Cattania (MIT, modeling) • Mostafa Mousavi (Harvard/Google, AI/ML) • Devin McPhillips (USGS, earthquake geology)
08:30 - 08:45	Moderated Discussion
08:45 - 09:25	Community Discussion
09:25 - 09:30	Synthesis and Closing
09:30 - 10:00	Break
10:00 - 11:55	Session 9. What Should SCEC Build Together?, <i>Horizon Ballroom</i> <u>Community Priorities for California's Earthquake System Science Enterprise.</u> This closing session will synthesize priorities emerging from SCEC2026 and perspectives from across the SCEC community. The session will provide an opportunity for broad community input on priorities, questions, and future directions for SCEC. <u>Moderator:</u> Ahmed Elbanna
10:00 - 10:25	Key Priorities Emerging from SCEC2026: • Reports from Moderators (Sessions 1-8)
10:25 - 10:45	Perspectives from Across the SCEC Community: • Early Career Researchers and Professionals • SCEC Institutions and Board of Directors • International Community • SCEC Science Steering Committee
10:45 - 11:20	Open Community Discussion: Priorities and Opportunities for SCEC's Next Phase
11:20 - 11:55	How community input will shape SCEC's programs and future directions, Ahmed Elbanna (USC)
11:55 - 12:00	Closing Remarks, <i>SCEC2026 Adjourns</i>

Poster Sessions

www.scec.org/meetings/2026/am/posters

Posters are divided into two groups: Group A (odd-numbered posters) and Group B (even-numbered posters). Each group has two dedicated poster sessions. Posters are on display in the Plaza Ballroom and Hilton Lobby.

Sunday, August 30

20:00 - 22:00 Poster Group A

Monday, August 31

11:30 - 12:00 Group A Live Lightning Talks

12:00 - 14:00 Lunch Break

15:30 - 17:30 Poster Group A

20:00 - 22:00 Poster Group B

Tuesday, September 1

11:30 - 12:00 Group B Live Lightning Talks

12:00 - 14:00 Lunch Break

15:30 - 17:30 Poster Group B



All posters also have a virtual “poster space” in the online SCEC Annual Meeting platform, open August 30–September 9. Go to the online poster gallery to view posters and videos, message authors, or leave feedback.

Fault and Rupture Mechanics (FARM)

Posters 001-041, 043, 045

GROUP A

- 001 SEM: Shallow Earth Materials (TAG), *William Griffith, Alexis Ault, Thomas Rockwell, Brady Cox, Eileen Evans, Yihe Huang, Kathryn Materna, Alba Rodriguez Padilla, and Hiroki Sone*
- 003 Shallow Geomaterial Properties Control Strike-Slip Surface Rupture Expression, *Curtis Baden, Josie Nevitt, and Fernando Garcia*
- 005 Geomechanical Understanding of Fault Zone Properties in Sedimentary Rocks and their Implications for Fluid Flow, Fault Stability, and Tectonic and Induced Earthquakes, *Brook Runyon, and John Shaw*
- 007 Offset well pressure transient caused by fault slip constrains fault zone hydraulic properties in EGS stimulation, *Meng Li, Taeho Kim, Eric Dunham, Sireesh Dadi, Paul Segall, Aleksei Titov, Richard Gibson, and Shanna Chu*
- 009 Hydraulic Forcing and Fault-Network State Govern Injection-Induced Rupture Cascades, *Zhengze Li, and Sylvain Barbot*
- 011 Gas compressibility suppresses injection induced fault rupture, *Dimitri Trifunac, Taeho Kim, and Hamdi Tchelepi*
- 013 Gutenberg– Richter or Safer? On the Magnitude–frequency Distributions of Induced Seismicity, *Linxuan Li, Kyungjae Im, and Jean-Philippe Avouac*
- 015 Conditions for runaway ruptures

during reservoir operations: magnitude–frequency distribution implications and application to Groningen, *Qian Shi, Alexis Sáez, Linxuan Li, Kyungjae Im, Stephen Bourne, Jan van Elk, and Jean-Philippe Avouac*

017 Rupture sensitivity to dynamic source parameters revealed by variational fracture mechanics and adjoint rupture dynamics, *Rikuto Fukushima, and Eric Dunham*

019 Adjoint-based inversion for stress and frictional parameters in 3D dynamic earthquake rupture models, *Wenqiang Zhang, and Eric Dunham*

021 Characterization of earthquake source properties for weak events using broadband dynamic rupture models, *Frantisek Gallovic, Lubica Valentova K., Lav Joshi, and Sara Sgobba*

023 Controls on the Connected, Multistage 2026 Mw 7.6 Venezuela Earthquake from EKI MultiCMT, 3D Dynamic Rupture Modeling, NISAR and ALOS-2 InSAR analyses, *Alice-Agnes Gabriel, Jeremy Wing Ching Wong, Rubi Garcia-Gonzalez, Eitan Rapaport Bruck, Mathilde Marchandon, Molly Zebker, Baoning Wu, Yohai Magen, Claudia Abril, David Sandwell, Yuri Fialko, and Wenyan Fan*

025 A Simple Discrete Elastic Model Exhibits Both the Statistical Properties and Migration Patterns of Slow Slip, *Ling Xia, and Allan Rubin*

027 Fault Connectivity Controls Synthetic Earthquake Catalogs and 30-Year Rupture Probabilities in RSQSim Simulations of the Eastern San Francisco Bay Area, *Evan Marschall, Alice-Agnes Gabriel, Bruce Shaw, Jeena Yun, Albert Kottke, Jennifer Donahue, and Michael Oskin*

029 Dynamic Rupture Behavior Across Asymmetric Fault Intersections in the Hayward-Calaveras System, *Christodoulos Kyriakopoulos, Brittany Botell, and Gareth Funning*

031 Comparing Dynamic Rupture Behavior of the Southern San Andreas Fault over Multiple Earthquake Cycles between CFM5.3 and CFM7 with a 3D Fully Dynamic Earthquake Simulator, *Hasti Bordbar, and Benchun Duan*

033 An Updated San Andreas Fault Geometry in Parkfield, California, *Adam Margolis, and David Oglesby*

035 Dynamic branching and surface rupture in the Signal Hill Stepover on the Newport-Inglewood Fault, Southern California, *David Oglesby, Natasha Toghramadjian, Andreas Plesch, John Shaw, and Wenqiang Zhang*

037 The influence of fracture propagation mode on surface rupture morphology during the 2019 M7.1 Ridgecrest, California earthquake, *Josie Nevitt, Benjamin Brooks, Todd Erickson, Nima Ekhtari, Craig Glennie, Kenneth Hudnut, and Simone Yeager*

- 039 The equation of motion for rate-and-state supershear earthquake rupture, *Zekang Gong, Federico Ciardo, and Dmitry Garagash*
- 041 Surface CO₂ flux tracks rupture-dependent healing along continental strike-slip faults, *Alexis Ault, Dennis Newell, Musa Balkaya, Sinan Akciz, Srisharan Shreedharan, and Greg Hirth*
- 043 Influence of fault zone overstrengthening on earthquake rupture across distributed fault networks: Insights from Ridgecrest, CA, *Zachary Smith, Roland Bürgmann, Ruyi Yan, Franics Waligora, William Griffith, Josie Nevitt, Matthew Gleeson, Christine Jilly, Tamara Jeppson, Eric Burdette, Kathryn Materna, and Matthew Idzakovich*
- 045 Investigating reverse fault paleoseismic trench observations with geomechanical models to infer earthquake source characteristics, *Kristen Chiana, Caje Kindred Weigandt, James Dolan, and John Shaw*
- GROUP B**
- 002 Cessation of nearby low-frequency earthquake activity following the December 2024 Mw 7.0 Mendocino earthquake: the likely role of pore pressure reductions, *David Shelly, and Kathryn Materna*
- 004 Effect of Coseismic Stress Changes from the 1999 Chi-Chi and 2024 Hualien Earthquakes on the Ambient Stress Field, *Ruoyan Wang, and Heidi Houston*
- 006 Lithology and Stiffness Controls on Coseismic Fault Weakening and Re-Strengthening in Stick-Slip Friction Experiments, *Xiaofeng Chen*
- 008 Anisotropic roughness evolution of triaxially fractured granite, *Eric Burdette, N. Beeler, Brian Kilgore, and David Lockner*
- 010 Free-surface controls on the stability of shallow rate-and-state faults, *Ari Silver, and Federico Ciardo*
- 012 Periodic and chaotic aseismic and seismic slip sequences on rate-state faults in three dimensions with two loading approaches, *So Ozawa, and Robert Viesca*
- 014 Ubiquitous interactions and subcritical patches explain the irregularity of repeating earthquakes, *Nadia Lapusta, and Linxuan Li*
- 016 A Tale of Two Heterogeneities: How Lithology and Geometry Set the Earthquake Clock, *Srisharan Shreedharan, Alejandro Aguilar, Alba Rodriguez Padilla, Chas Bolton, and Kelian Dascher-Cousineau*
- 018 When and where does aseismic creep stop rupture propagation?, *Julian Lozos*
- 020 Thermal localization and rheological control on the steady-state width of 1D ductile shear zones, *N. Beeler, Hannah Shabtian, and Greg Hirth*
- 022 Evolving seismic asperities by velocity- and temperature-dependent friction, *Binhao Wang, and Sylvain Barbot*
- 024 The friction of natural fault rocks, *Heather Savage, and Demian Saffer*
- 026 Evolution of frictional strength and fluid flow in shear fractures in granitic rock under hydrothermal conditions, *Tamara Jeppson, David Lockner, Joshua Taron, N. Beeler, Stephen Hickman, Diane Moore, and Brian Kilgore*
- 028 Earthquake Cycle Simulations on Complex Three-Dimensional Fault Geometries Using Curved Boundary Elements, *Yudong Sun, Andrew Bradley, and Paul Segall*
- 030 Advancing Community Benchmarking for Sequences of Earthquakes and Aseismic Slip: Objectives and Planned Activities of the SCEC SEAS Technical Activity Group, *Taeho Kim, Mohamed Abdelmeguid, Eric Dunham, Brittany Erickson, Valere Lambert, Pierre Romanet, and Prithvi Thakur*
- 032 Bayesian Calibration of dynamic models of earthquake sequences using observations from past large earthquakes, *Hojjat Kaveh, Oliver Dunbar, Jean-Philippe Avouac, and Andrew Stuart*
- 034 Machine Learning Enhanced Earthquakes Reveal Stress Changes in Icelandic Geothermal Fields, *Colin Pennington, Egill Guðnason, Þorbjörg Ágústsdóttir, Anette Mortensen, and Rögnvaldur Magnússon*
- 036 Thermoelastic unclamping and pressure-driven fluid loss during multiyear circulation in enhanced geothermal systems, *Matthew Weingarten, and David Dempsey*
- 038 Generalization of Satellite-Based Building Damage Mapping Across Earthquake Events, *Yifan Sun, and Lingsen Meng*
- 040 Transient Strain and Electrical Conductivity due to Fault Formation across Laboratory Steppovers, *Sara Beth Cebry, Tamara Jeppson, David Lockner, and Eric Burdette*

Plate Boundary System (PBS)

Posters 042, 044, 046

- GROUP B**
- 042 Seismic Imaging of the Mendocino Triple Junction: Defining the Geodynamics of an Evolving Plate Boundary Transition, *Kevin Furlong, Matthew Herman, & Kirsty McKenzie*
- 044 Redefining the 3-D Plate Boundary Structure of the Mendocino Triple Junction (MTJ), *Sarah Kummerfeldt, Kevin Furlong, and Kirsty McKenzie*
- 046 Seismicity along the Southern Edge of the Subducted Gorda Plate, *Jianhua Gong*

Stress and Deformation Over Time (SDOT)

Posters 048-058 (even numbers)

- GROUP B**
- 048 A millennium of loading: Paleoseismically constrained Coulomb stress evolution on the Carrizo and Coachella segments of the San Andreas Fault, *Liliane Burkhard, and Bridget Smith-Konter*
- 050 Evolving shear traction and its spatial variability on the southern San Andreas fault system since 1000 CE, *Emery Anderson-Merritt, and Michele Cooke*
- 052 Viscoplastic deformation of naturally damaged rocks from the San Andreas Fault from creep and pure shear experiments, *Nairong Du, and Hiroki Sone*
- 054 Investigating the impact of restraining bend dip on fault evolution using scaled experiments, *Michelle Nishimoto, and Michele Cooke*

056 A Preliminary 3D Mechanical Model of Central California Fault Slip Rates, *Francisco Roland-Sagui, and Scott Marshall*

058 Can we reliably resolve near-fault complexity along the creeping central San Andreas with high-resolution lidar differencing?, *Catherine Hanagan, Stephen DeLong, Jessie Vermeer, Morena Hammer, and Chelsea Scott*

Tectonic Geodesy

Posters 047-059 (odd numbers), 060-072

GROUP A

047 USGS GNSS data collection and analysis for quantifying interseismic fault creep and imaging slip throughout the earthquake cycle, *Jessica Murray, Eleyne Phillips, and Ryan Turner*

049 Linking Fault Slip and Near-Surface Deformation on the Southern San Andreas Fault at Painted Canyon: Preliminary Results, *Asenath Kwagalakwe, Eileen Evans, Gladys Pantoja, Allen Gontz, Yehuda Bock, Aubrey Bennett, Jennifer Haase, Matthew Brandin, Yuri Fialko, and Cornelius Waldhausen*

051 The June 24, 2026 M5.6 Redwood Valley, CA earthquake and creep on the Maacama fault, *Gareth Funning*

053 Investigating the complex multi-segment rupture of the 2025 M 6.0 Afghanistan earthquake from Sentinel-1 InSAR data, *Karlee Rivera*

055 Coseismic 3D surface deformation and slip distribution of the M7.5 Venezuela Earthquake doublet revealed by NISAR and ALOS-2 InSAR data, *Rubi Garcia-Gonzalez*

057 A geologic block model of southern California, *Eileen Evans, Abigail Travers, Jayson Sellars, Monica Diaz, and Jack Loveless*

059 Off-Fault Geodetic Deformation in California May Be Largely Aseismic, *Nicolas Castro-Perdomo, and Kaj Johnson*

061 A GNSS-Derived Strain Rate Map of North America and Implications for Continental, *Yuehua Zeng*

063 Time-dependent strain rate field for California from inversion of geodetic data, *Kaj Johnson*

065 Depth-Dependent Crustal Deformation from a Physics-Based Joint Inversion of GNSS and InSAR in Southern California, *Mradula Vashishtha, William Holt, and Jeonghyeop Kim*

067 How did two large ($M > 6.5$) earthquakes affect creep rates on the Pütürge segment of the East Anatolian Fault?, *Celeste Hofstetter, Seda Özarpacı, and Gareth Funning*

069 Spatiotemporal variability of shallow creep along Mount Etna's segmented faults: 2015–2025 Sentinel-1 InSAR time series, *Steven Brooks, Roland Bürgmann, Raffaele Azzaro, and Francesco Guglielmino*

GROUP B

060 Multi-Track InSAR Resolves Distributed, Seasonal, and Ridgecrest-Related Deformation Across the Southern Walker Lane, *Yu Jiang, Jingyi Chen, and Daniel Trugman*

062 Detection of Nonlinear Slow Deformation From Wrapped Phase Gradients in Low-Coherence Terrain, *Zhen Li, and Jean-Philippe Avouac*

064 Parallel InSAR Streams for the Community Geodetic Model: Evaluating Statewide Kinematics using Customizable Level-2 ARIA, Standardized Level-3 OPERA DISP-S1 Archives, and Preliminary NISAR Data, *Simran Sangha, Gareth Funning, Marin Govorcin, and David Bekaert*

066 Towards 3D InSAR time series displacement with Kalman filtering - Feasibility and theoretical accuracy, *Li-Chieh Lin, and Gareth Funning*

068 Analyzing GNSS Time-Series Parameterization of Interseismic and Early Postseismic Deformation, *Aubrey Bennett, Yehuda Bock, and Lavoisiane Ferreira*

070 Binary Probabilistic Inference of Megathrust Segmentation in the Presence of Slow Slip Events: Insights from the Mexico Subduction Zone, *Axel Perillat, Gareth Funning, and Roland Bürgmann*

072 What mechanical coupling reveals about seismic potential: A case study in the Chilean Atacama Gap, *Valeria Becerra-Carreño, Jorge Crempien, Marcos Moreno, and Roberto Benavente*

Community Earth Models (CEM)

Posters 071, 073-089

GROUP A

071 Full Waveform Inversion Tomography of the San Francisco Bay Area, *Arthur Rodgers, Claire Doody, Jiun-Ting Lin, and Qingkai Kong*

073 Refining Near-Surface Seismic Structure in the San Francisco Community Velocity Model (SFCVM), *Anupam Patel, and Kim Olsen*

075 Multi-scale Statewide California Seismic Velocity Models: Version 1, *Te-Yang Yeh, Yehuda Ben-Zion, and Kim Olsen*

077 SCEC Multi-scale Community Velocity Model TAG, *Kim Olsen, Evan Hirakawa, Te-Yang Yeh, Yehuda Ben-Zion, Clifford Thurber, Oliver Boyd, and the SCEC Multi-scale Community Velocity Model TAG Working Group*

079 Expanding UCVI with New Models, Methodologies, and Data Formats, *Mei-Hui Su, Scott Callaghan, Te-Yang Yeh, Yehuda Ben-Zion, Andreas Plesch, John Shaw, Scott Marshall, and Ahmed Elbanna*

081 Seismic wave speed variability beyond geology-based rules in the

western United States, *Oliver Boyd, Evan Hirakawa, and Daniel Scheirer*

083 Regionalization of a California-wide seismic tomography model, *Laurent Montesi, and Arfan Rashid*

085 GNSS/InSAR Integration for 3-D Deformation Time Series in Southern California, *Zheng-Kang Shen, and Zhen Liu*

087 Integrating Community Research into a Consensus Geodetic Model: A Community Velocity Field Exercise for the SCEC Community Geodetic Model (CGM), *Ekaterina Tymofeyeva, Michael Floyd,*

Kathryn Materna, Zhen Liu, Zheng-Kang Shen, Gareth Funning, Molly Zebker, Eric Fielding, Mradula Vashishtha, and William Holt

- 089 Expansion of the combined GNSS component of the Community Geodetic Model for the Statewide California Earthquake Center, *Michael Floyd, Thomas Herring, and Zheng-Kang Shen*

GROUP B

- 074 Earthquake-to-fault associations across northern California, *Esmeralda Callejas, Scott Marshall, Andreas Plesch, Walker Evans, and John Shaw*
- 076 Planning SCEC CFM 8.0 and the TAG: updates, analysis and use cases, *Andreas Plesch, Scott Marshall, Rebecca Fildes, and John Shaw*

- 078 Newly recognized active blind thrust faults in the northwest Los Angeles basin, *Gabrielle Ursin, John Shaw, and Andreas Plesch*

- 080 Suitable 3D Geometry for the San Andreas Fault ShakeOut Scenario 2.0 from Seismicity, *Craig Nicholson*

- 082 Spatially continuous slip rake angles across nonplanar fault geometry, *Matthew Knepley, Brad Aagaard, and Charles Williams*

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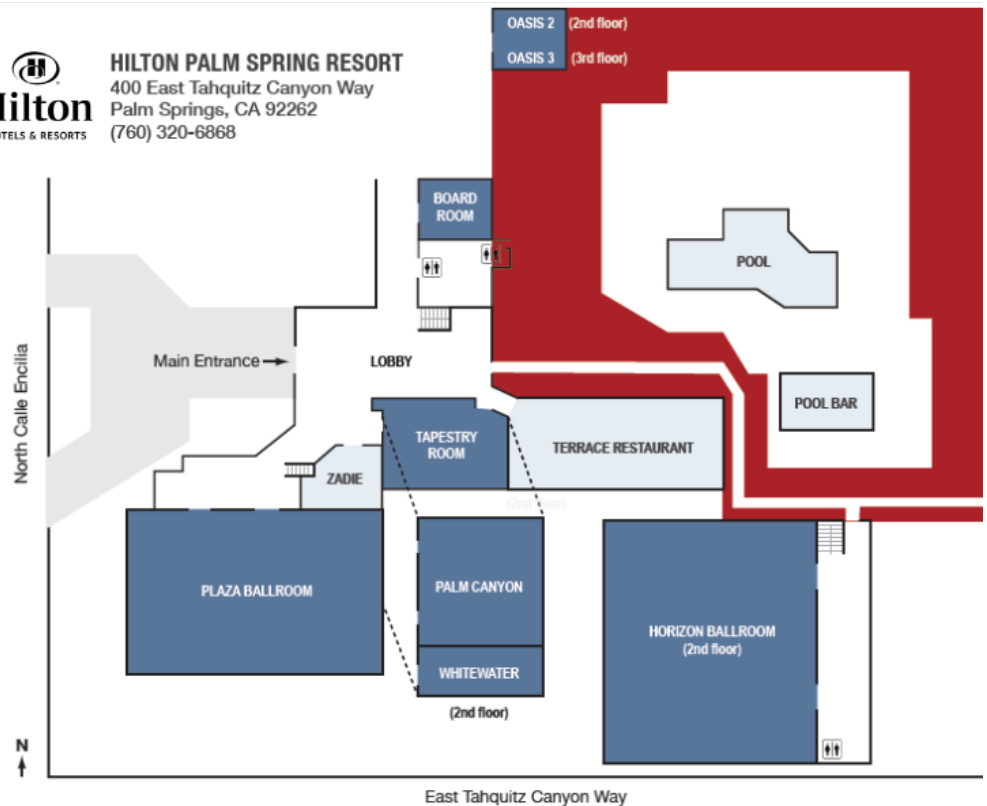
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Agua Caliente Band of Cahuilla Indians Land Acknowledgement Video: youtu.be/04TIEenxiwIA



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KEEPING HEALTHY See the CDC Respiratory Virus Guidance for protections against the spread of COVID-19, RSV and Flu (www.cdc.gov/respiratory-viruses/prevention/index.html). While community transmission rates are low, the nature of this event (dense gatherings in indoor spaces) requires everyone to commit to common sense hygiene and prevention strategies. The National Weather Service has issued Extreme Heat Warnings for southern California during SCEC2026. Stay hydrated, and be on the lookout for signs of heat-related illness in yourself and others (www.cdc.gov/niosh/heat-stress/about/illnesses.html).