



Statewide California Earthquake Center

A collaborative research and education hub that brings together
experts across geoscience and related fields

The State of SCEC

Ahmed Elbanna, PhD
Palm Springs, CA, 08/30/2026

On January 1st, 2026, I became SCEC Designate Director

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At first, I was Afraid
I was petrified

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But then quickly I realized that +
SCEC will survive!

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But then quickly I realized that †
SCEC will survive!

And this has very little to do with me
and a lot to do with how resilient and
creative you are and how amazing and
resourceful the SCEC HQ team is

On January 1st, 2026, I became SCEC Designate Director



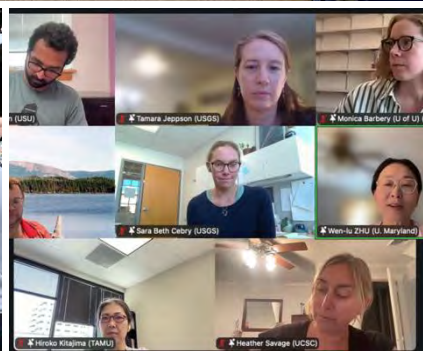
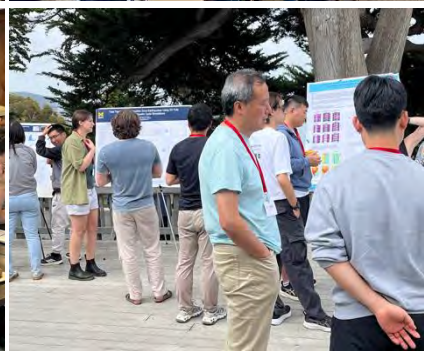
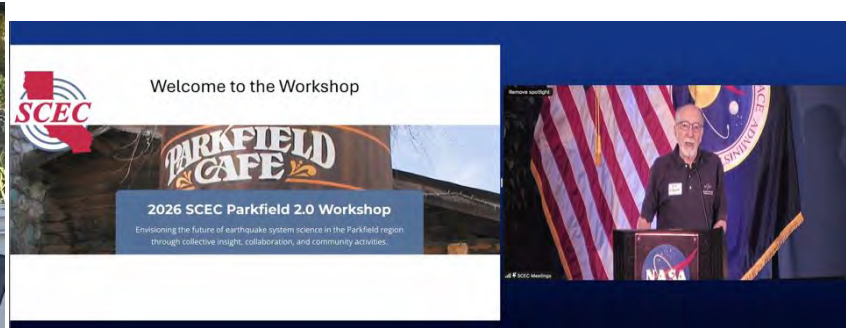
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And this has very little to do with me and a
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community, are and how amazing and
resourceful the SCEC HQ team is

So, for the next 25 minutes or so I will walk you through some of my observations on the
state of SCEC and the opportunities and challenges that lie ahead

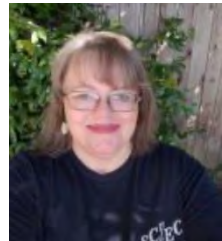
1. We Continue to Like Each Other 😊



SCEC Workshops & Meetings 2026–2027



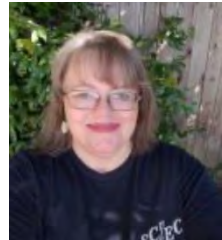
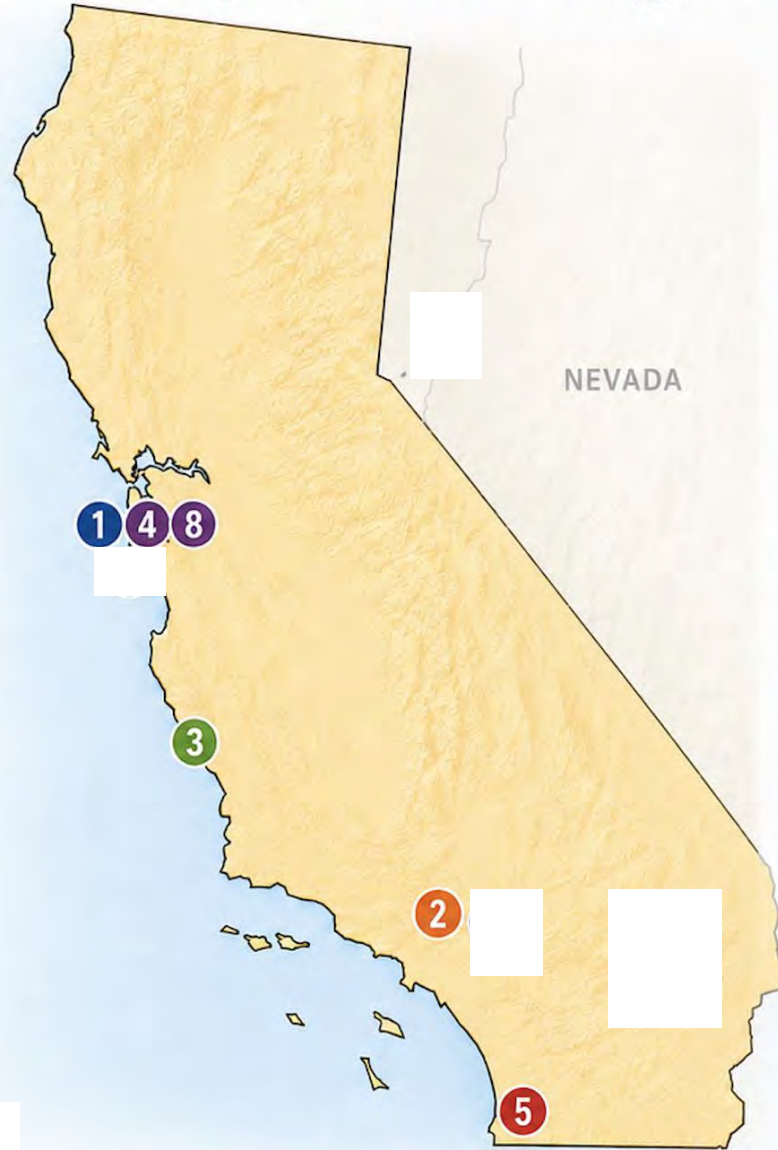
- 1** March 3–6, 2026 (SJSU)
SCEC Fault Creep Workshop
- 2** April 14–18, 2026 (Pasadena)
SSA Annual Meeting
- 3** June 1–3, 2026 (Pismo Beach)
SCEC UNREST Workshop
- 4** June 10–11, 2026 (Moffett Field)
SCEC Parkfield 2.0 Workshop
- 5** June 22–24, 2026 (UCSD)
SCEC TANDEM Training
- 6** July 13, 2026 (Portland)
SCEC/USGS GM-SVU @ 13NCEE
- 7**  July 21, 2026 (virtual)
SCEC Fault Friction Workshop 1
- 8** August 20, 2026 (Moffett Field)
SCEC Community Stress Drop



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Tune in for the
workshop reports
later in this session

2. We Love Doing Science Together!

The 2026 Collaboration Plan supports the following twelve Technical Activity Groups:

1. [ShakeOut Scenario](#)
2. [The Next Generation 3D Community Fault Model for California \(CFM\)](#)
3. [Understanding Natural Recurrence of Earthquakes and Slip over Time \(UNREST\)](#)
4. [Community Stress Drop Validation Study \(STRESS\)](#)
5. [Integrating Community Research into a Consensus Geodetic Model \(CGM\)](#)
6. [Next-Generation Ground Motion Simulation, Validation, and Utilization \(GM-SVU\)](#)
7. [Advancing Simulations of Sequences of Earthquakes and Aseismic Slip \(SEAS\)](#)
8. [Sierra Earthquake Risk Reduction \(SiERRa\)](#)
9. [Multi-scale Community Velocity Model \(CVM\)](#)
10. [Creep Rate, Episodicity, and Earthquake Potential \(CREEP\)](#)
11. [Shallow Earth Materials \(SEM\)](#)
12. [Northern California Cascadia–San Andreas Transition \(NORCAT\)](#)

Strengthening California's Community Earth Models

CFM

CVM

CGM

CREEP

UNREST

NORCAT

SEM

Advancing Hazard Scenarios and Ground-Motion Science

ShakeOut

GM-SVU

STRESS

Advancing Earthquake Forecasting and Earthquake Cycle Science

SEAS

UNREST

Supporting Resilience, Workforce Development, and Community Engagement

CREEP

SEM

NORCAT

GM-SVU

SiERRa

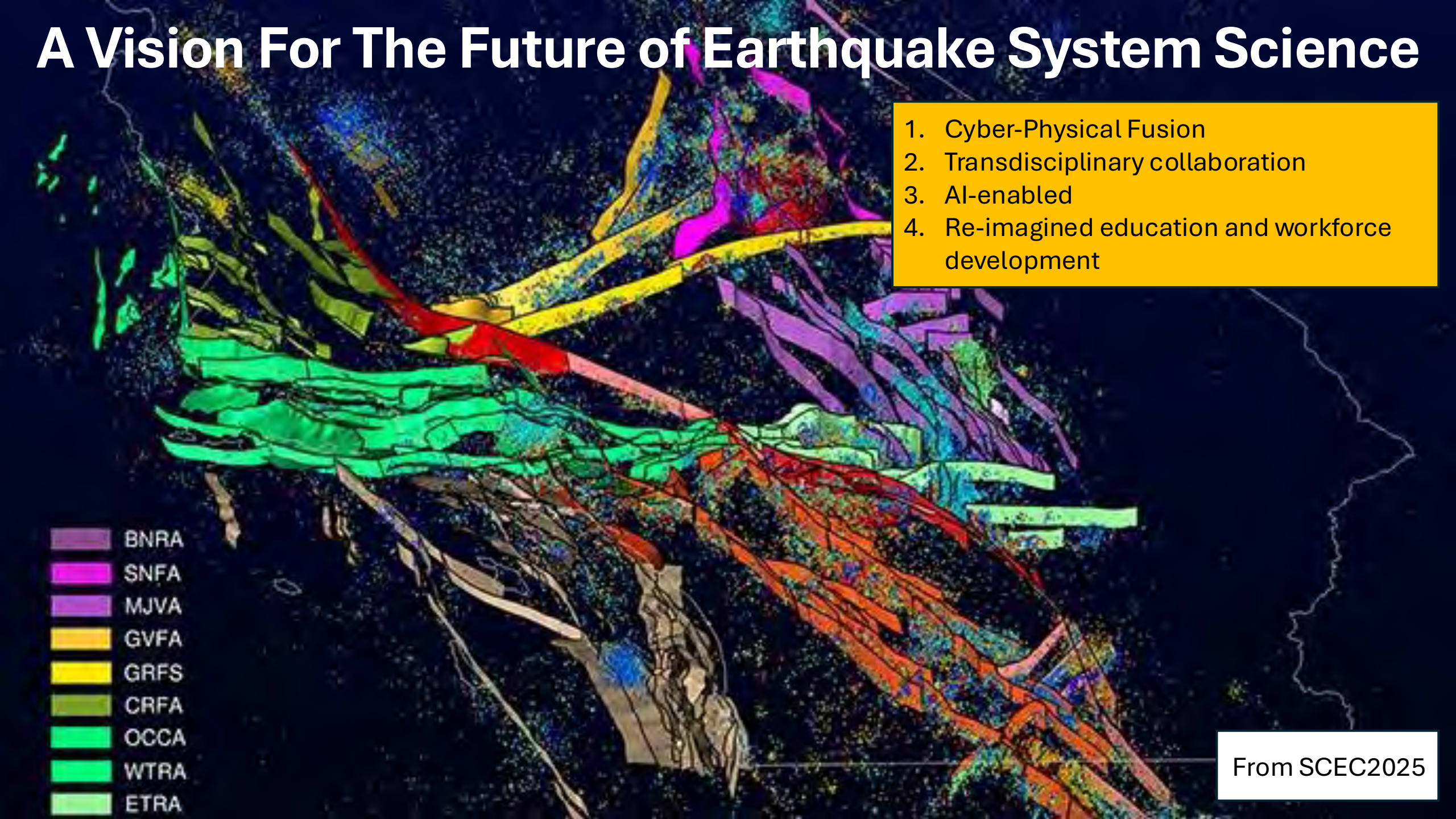
STRESS

ShakeOut

CVM

A Vision For The Future of Earthquake System Science

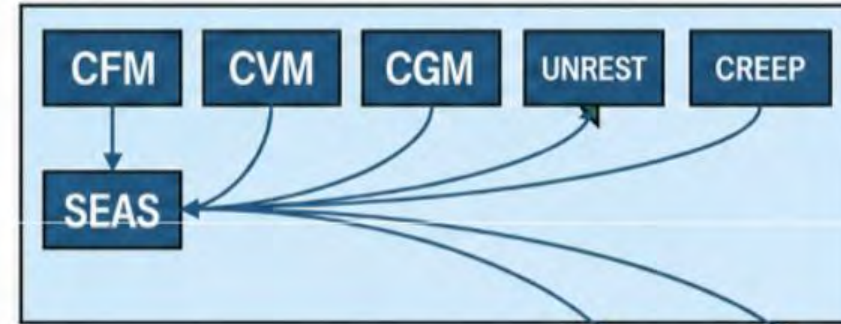
1. Cyber-Physical Fusion
2. Transdisciplinary collaboration
3. AI-enabled
4. Re-imagined education and workforce development



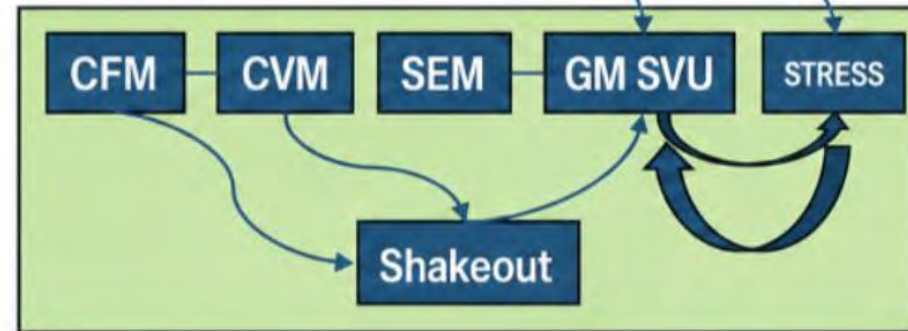
BNRA
SNFA
MJVA
GVFA
GRFS
CRFA
OCCA
WTRA
ETRA

From SCEC2025

1. **Cyber-Physical Fusion**
2. Transdisciplinary collaboration
3. AI-enabled
4. Re-imagined education and workforce development



1. Cyber-Physical Fusion
2. **Transdisciplinary collaboration**
3. AI-enabled
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1. Cyber-Physical Fusion
2. Transdisciplinary collaboration
3. AI-enabled
4. **Re-imagined education and workforce development**



Potential sites
for digital twins

Mendocino Triple
Junction (NORCAT)

Walker Lane
(Sierra)

Parkfield

SoSAF/SJF

SCEC Workshops & Meetings 2026–2027



MENDOCINO
TRIPLE
JUNCTION

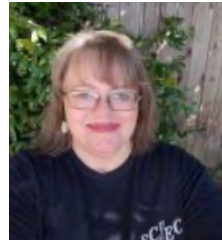


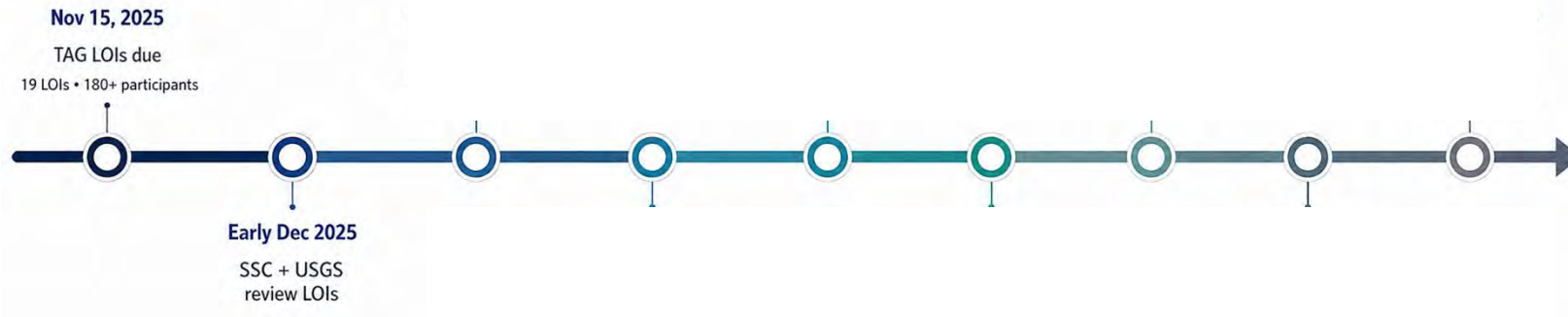
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SCEC Fault Friction Workshop 1
- 8 August 20, 2026 (Moffett Field)
SCEC Community Stress Drop

Plus follow-up workshops for GM-SVU and ShakeOut 2.0 circa December?



- 9 August 29, 2026 (Palm Springs)
SCEC Fault Friction Workshop 2
- 10 August 30, 2026 (Palm Springs)
NORCAT TAG Workshop
- 11 August 30, 2026 (Palm Springs)
SCEC CVM TAG Workshop
- 12 August 30, 2026 (Palm Springs)
SCEC ANNUAL MEETING
- 13 October 6, 2026 (USC)
SCEC ShakeOut 2.0 Meeting 1
- 14 October 20–22, 2026 (UNR)
SCEC SiERRA TAG Workshop
- 15 October 29, 2026 (tbd)
SCEC GM-SVU Workshop
- 16 January xx, 2027 (SJSU)
SCEC CREEP Bootcamp
- 17 March 8–12, 2027 (tbd)
SCEC SEM School





Science Steering Committee (SSC)

Identifies research priorities, sets the Center's science goals, and monitors progress



Greg Beroza
SCEC Co-Director



Alice Gabriel
PRC Vice-Chair



Mike Floyd
SSC Member



Lisa Grant Ludwig
SSC Member



Nadia Lapusta
SSC Member



Morgan Moschetti
SSC Member



Morgan Page
SSC Member



Patricia Persaud
SSC Member



Belle Philibosian
SSC Member

USGS Liaisons to the SSC

USGS internal coordinators for relevant SCEC areas of work (plus Mike Blanpied, who oversees internal research support)



Sarah Minson
USGS Liaison
NoCA Coordinator



Devin McPhillips
USGS Liaison
SoCA Coordinator



Fred Pollitz
USGS Liaison
EQ Source Processes



Ned Field
USGS Liaison
EQ Rupture Forecasting



Brad Aagaard
USGS Liaison
Ground Motion



Dara Goldberg
USGS Liaison
Geodesy

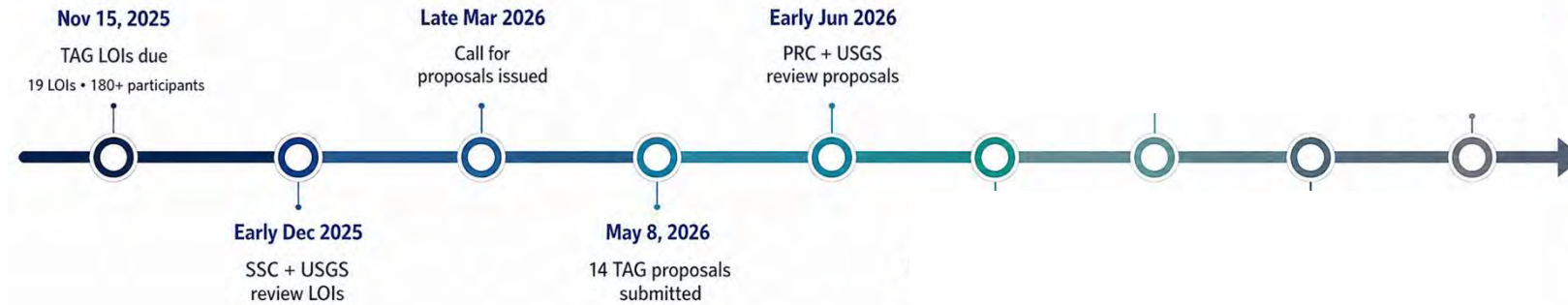


Nico Luco
USGS Liaison
Hazard, Impacts, & Risk



Mike Blanpied
USGS Liaison
EHP Leadership

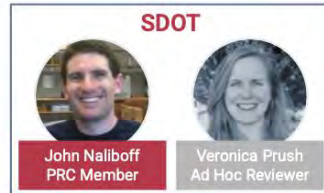
2025–2026 TAG / Science Collaboration Timeline



Proposal Review Committee (PRC) – May 2026 only

Evaluates proposals submitted to SCEC, and recommends the annual portfolio of projects for funding to the Board to approve

(A total of 24–30 reviewers that span 12 disciplinary and interdisciplinary focus areas of SCEC research.)



USGS Liaisons to the PRC

Chairs of USGS external grant review panels for relevant areas of work (plus Jill Franks, who oversees external research support)





Board of Directors (BoD)

Sets policies and oversees Center's management and governance, fostering stakeholder engagement

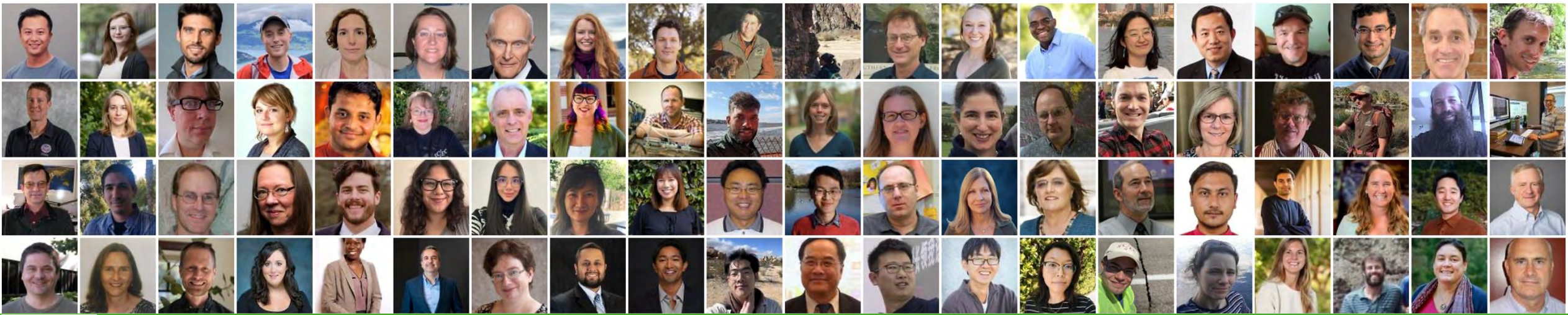
Board Officers: Elected Institutional Representatives who manage critical functions of the Board

Institutional Representatives: Appointed representatives from core and participating institutions, along with USGS liaisons

 Tim Dawson Board Chair	 Rachel Abercrombie Board Vice-Chair EAC Liaison	 Richard Allen Core Representative	 Yifeng Cui Core Representative	 Benchun Duan Core Representative	 Emily Haddad Core Representative	 Martha House Core Representative	 Chen Ji Core Representative	
 Paul Segall Board Officer Management Oversight	 David Oglesby Board Officer Professional Conduct	 Jillian Maloney Board Officer Community Involvement	 Kaj Johnson At-Large Rep	 Kayla Kroll Core Representative	 Christos Kyriakopoulos Core Representative	 Karen Luttrell At-Large Rep	 Betsy Madden Core Representative	 Scott Marshall At-Large Rep
 Heather Savage Board Officer Leadership Recruitment	 Andreas Plesch Board Officer Elections & Voting	 Daniel Trugman Board Officer Bylaws & Governance	 John Rundle Core Representative	 Caroline Seyler Core Representative	 Bruce Shaw Core Representative	 Peter Shearer Core Representative	 Weisen Shen Core Representative	 Jon Stewart Core Representative
 Sylvain Barbot Board Officer Communications	 Zach Ross Board Officer Stakeholder Management	 Ruth Harris USGS Liaison	 Morgan Moschetti USGS Liaison	 Devin McPhillips USGS Liaison				

Elected At-Large Representatives

To apply as a SCEC core or participating institution status, go to:
www.scec.org/institutions



Mid-Aug 2026
Subcontracts
executed /
projects launch

SCEC2026: TAGs meet the community: Thunder Presentations and Posters!

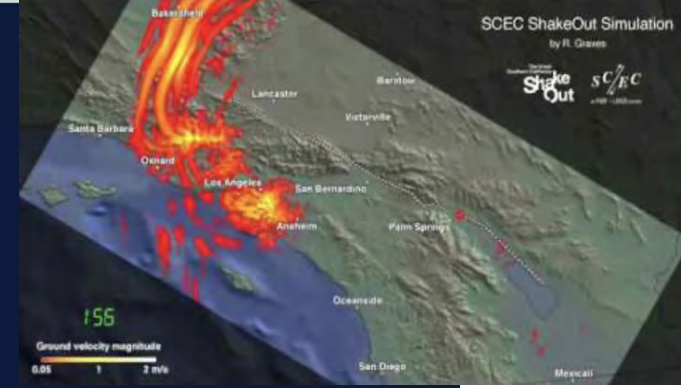


3. We Continue to Care!

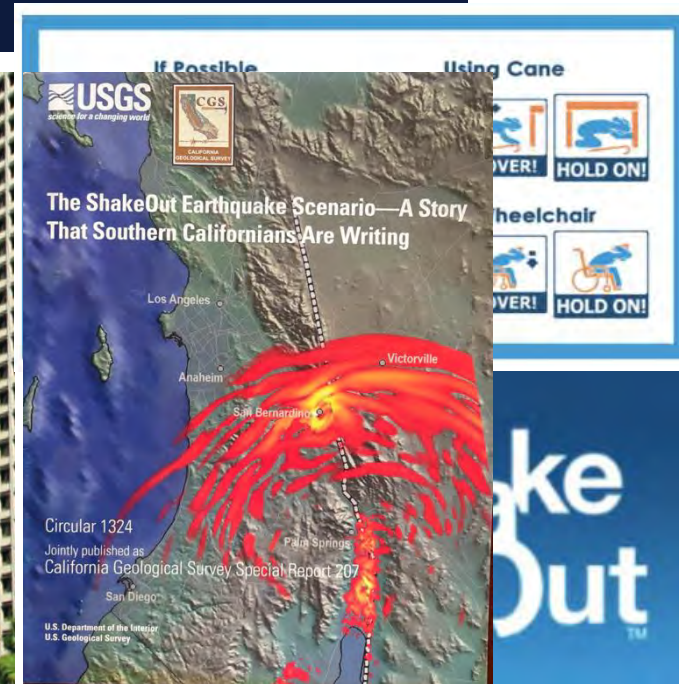
ShakeOut Scenario2.0

A New Scenario for a New California

The 2008 ShakeOut Scenario: From Science to Public Engagement to Legislation



Great ShakeOut Earthquake Drills



ShakeOut Scenario2.0

20 Years Later!

Climate Change & Cascading Hazards

Wildfire, heat, and recovery challenges can compound earthquake impacts.

More Powerful Tools

Exascale computing, dense data, and AI enable deeper analysis.

Larger Exposure

More people, assets, and systems are at risk.

Digitization & Electrification

Daily life depends more on power, data, and connected infrastructure.

Unaddressed Vulnerabilities

Many buildings, lifelines, and communities remain exposed.

Better Knowledge of CA Earthquake Systems

Improved understanding of faults, rupture, and basin effects.

ShakeOut Scenario2.0

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California is underestimating the impact of a large urban earthquake at a time the state must plan to be self-sufficient

Our Goals Are Ambitious but Achievable

01

Assess the impact of our interventions

How have our interventions in the last 20 years changed our vulnerability? What are we missing?

02

Rerun the rupture scenario and ground motion products

Reduce uncertainty about shaking intensity and distributions

03

Update our infrastructure portfolio

Evaluate risk across the full infrastructure portfolio using current models

04

Revisit multi-hazard maps

Assimilate the latest research results accounting for climate changes

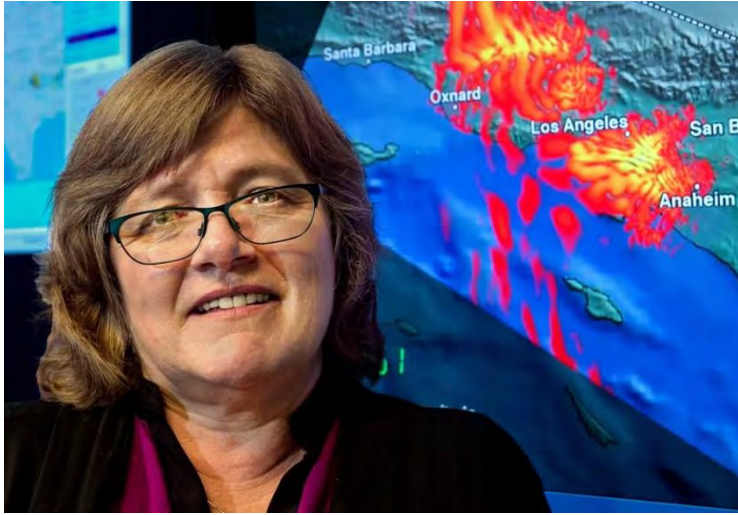
05

Social science perspective

Human behavior and response under prolonged disruption

Co-planning with emergency managers and utilities — resource allocation, optimization, operations research, and decision frameworks.

We are getting the teams together for Shakeout Scenario v2.0



Lucy Jones
(LJC/Caltech)



Kate Shearer
(USGS)



Sara McBride
(CSSC)



Wendy Bohon/Brian Olson
(CGS)

2026 SCEC ShakeOut Scenario 2.0 Workshop

Connecting science, engineering, and practice to strengthen California's earthquake resilience

Shakeout Scenario Tag : 100 +
participants

Date: October 6-7, 2026

Location: University of Southern California, Los Angeles, CA

Workshop Organizers: Kate Scharer (USGS), Ahmed Elbanna (USC), Negar Elhami-Khorasani (Univ at Buffalo), Keith Porter (SPA Risk), Lucy Jones (Caltech), Samantha Stanley (Caltech)

SCEC Award: 26067

[Apply Now](#)

Priority Deadline: August 28, 2026

Applications received after August 28 may be considered if space is available.

Additional partners across academia,
industry, and state agencies

We are getting the teams together for Shakeout Scenario v2.0



Session 2



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(LJC/Caltech)



Kate Shearer
(USGS)



Sara McBride
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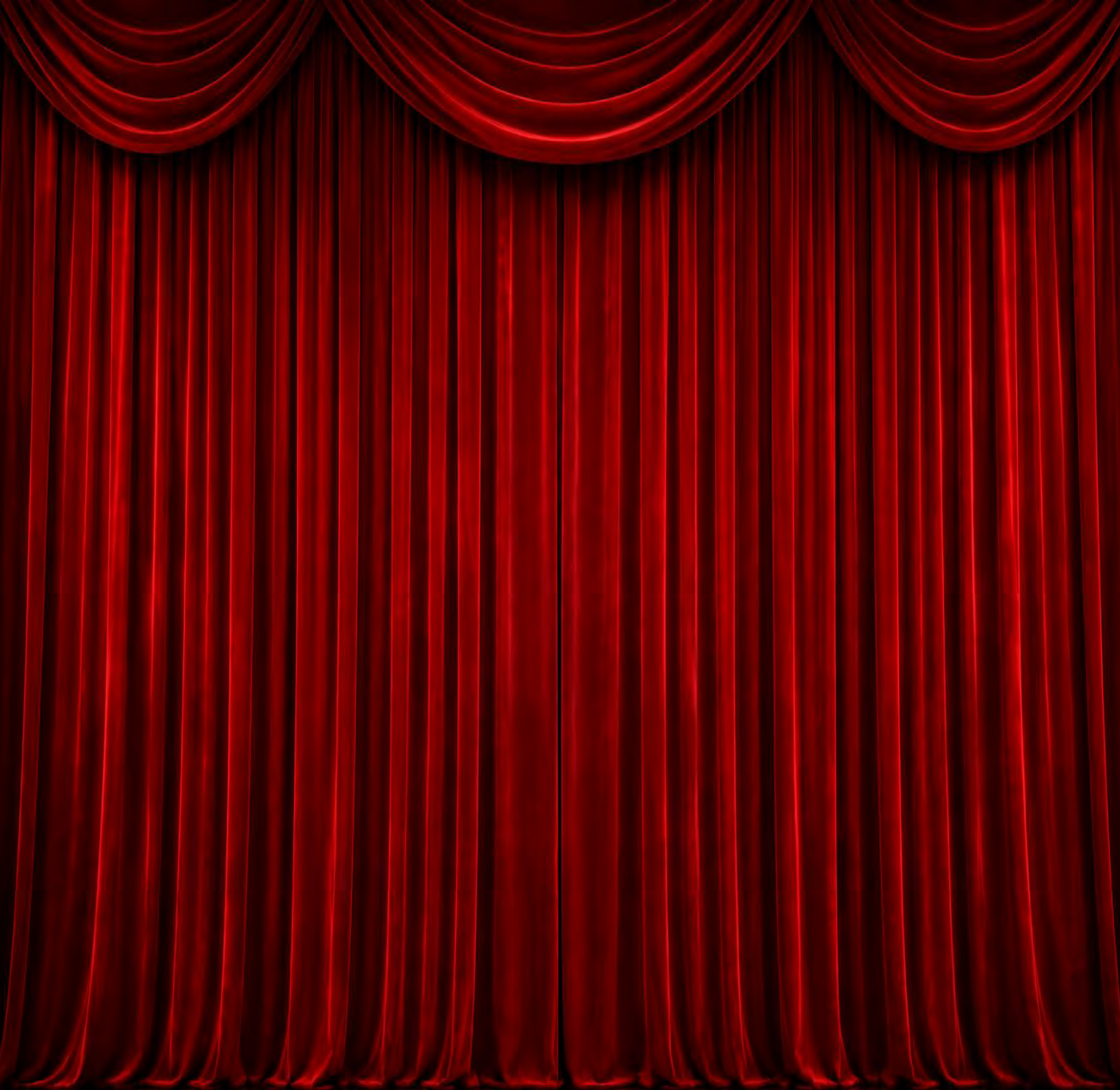
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The community response has been amazing

Groups have started meeting since late May (Geology, friction, rheology, stress, modeling)

Fascinating questions are coming up by fusing the community models to conduct the rupture simulations

We have a few preliminary candidates for the new rupture scenario simulated using  SeisSol

We will show a couple of them here

A stage with red curtains and a spotlight. The stage floor is made of wood and has several small lights along the edge. The background wall is a light yellow color.

Tomorrow with Kate!

Stay tuned

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Chunhui Zhao

Poster 225 Group A: Dynamic Rupture Simulations and 0-1 Hz Ground Motions of Two Leading Candidate Models for ShakeOut Scenario 2.0 (Zhao et al.)

4. We Continue to Support
the Next Generation!

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128 early career attendees this year

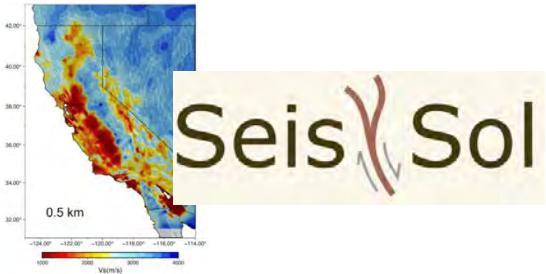
Workshops and mentoring

Travel support

Breakfast Club

Shakeout Scenario Fellows: SURE Interns

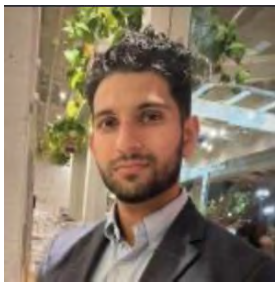
Poster 221 Group A



Fabio Silva



Mei-Hui Su



Akash Bhatthal



Rob Graves



Kevin Milner



Scott Callaghan



Chunhui Zhao

Shakeout Scenario Fellows: SOURCES Interns



Lamar



Corey



Sandi



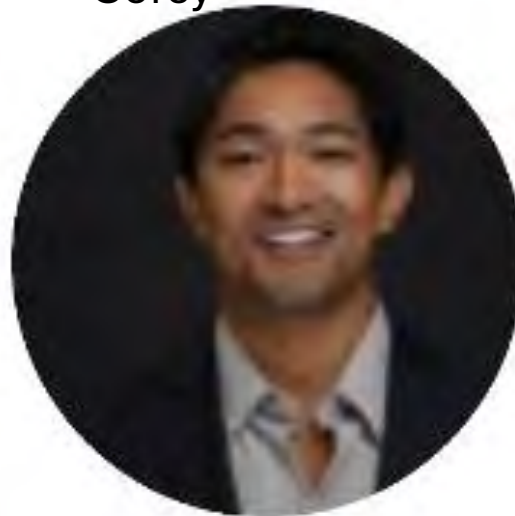
Keith Porter



Lucy Jones



Benjamin

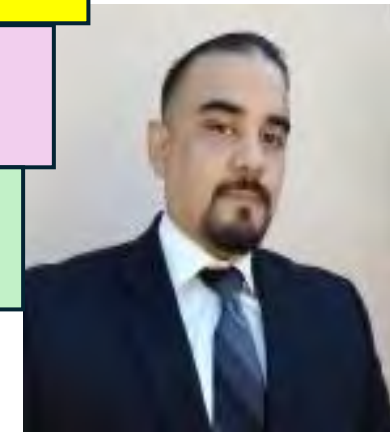


Ishmael

Poster 166 Group B

Poster 168 Group B

Poster 188 Group B



Edward Salcido



Mark Benthien

Center Staff at University of Southern California

Full-time staff and postdocs that support the broad range of the Center's activities

Science Operations & Administration



Tran Huynh
Assoc Director



Edric Pauk
Res Programmer



Deborah Gormley
Business Ops Spec



Phoebe Long
Office Assistant

Engagement & Education



Mark Benthien
Assoc Director



Edward Salcido
Web Developer



Lindsay Huerta
Project Specialist

Research Computing & Software



Scott Callaghan
Computer Scientist



Akash Bhatthal
Software Engineer



Fabio Silva
Computer Scientist



Mei Su
Computer Scientist

Applied Science & Research



Xiaofeng Meng
Research Assoc



Kristen Chiam
Postdoc



Chunhui Zhao
Postdoc

The HQ Superheroes!

5. We Work on Our
Wishes And Make Them A Reality!

2025 SCEC Wish Wall

[illegible]

PARTY
WHEN
AHMED
TURNS
21!

Push the Science & Engineering Forward

More geological
and structural
interpretation
using existing
seismic
tomography!

Broad
K-12 &
educat
housing
[mark
EQ work
Dev

Re-engage the engineering
community, particularly
as related to how to
use the hazard research
in risk analysis.

Eg. need for validation
of ground motion simulations
against recording before use
in engineering analysis.

broader discussion,
workshops, broader
collaboration to collectively
develop capabilities

Inclusive earthquake
system science for
all disciplines.
Focus on products
enhancing resilience.
Cyber-shake next
generation:

- ambitious, specific
performance and safety
targets
- stronger connection
to partnerships and
applications

More outreach
+ engagement with
practicing professionals
+ prof. organizations
Test use/apply
EQ research
products + knowledge.
AEG, ASCE, APA
E.G. et

100%!!

More seismic
engineering,
please!!

Also, stronger
focus on application
of all of this.
#socialscience

Push the Science & Engineering Forward

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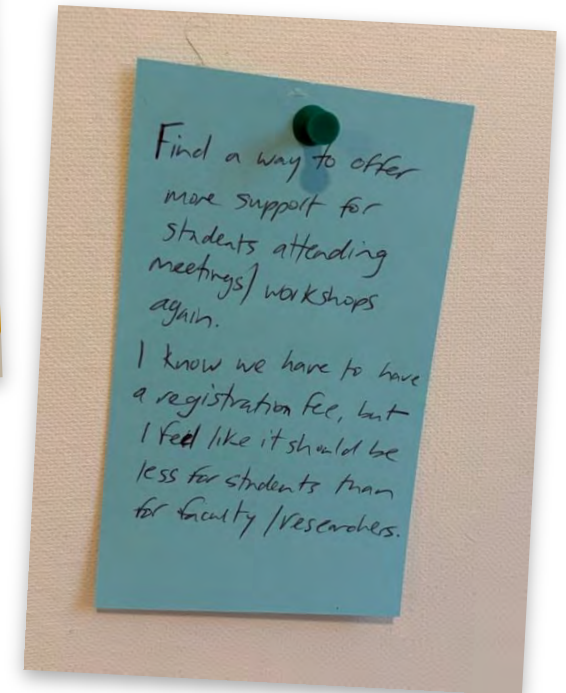
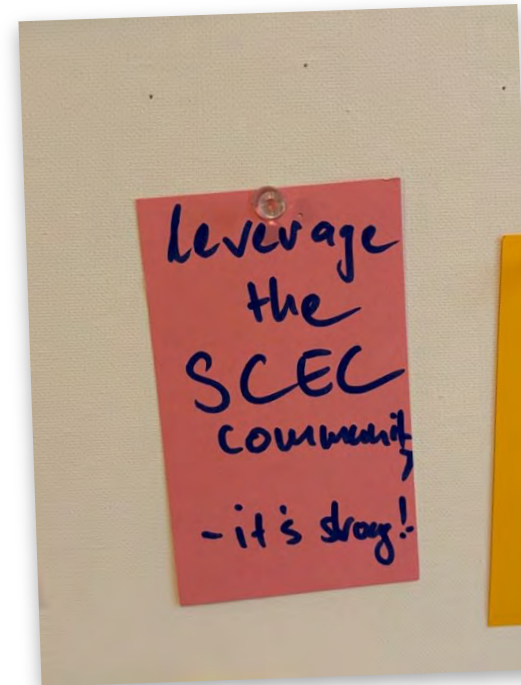
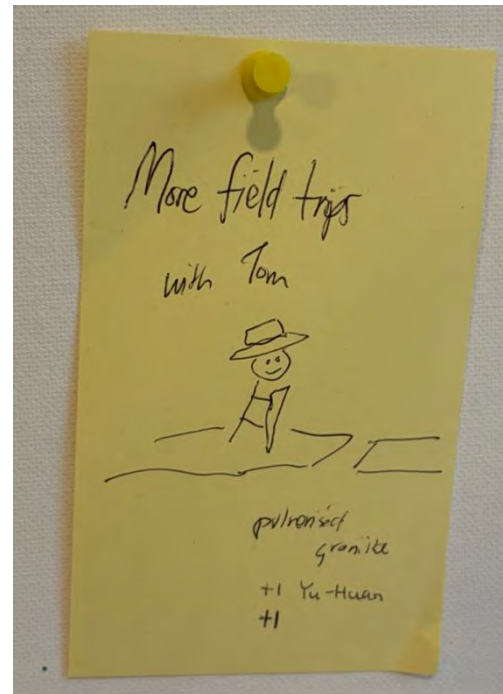
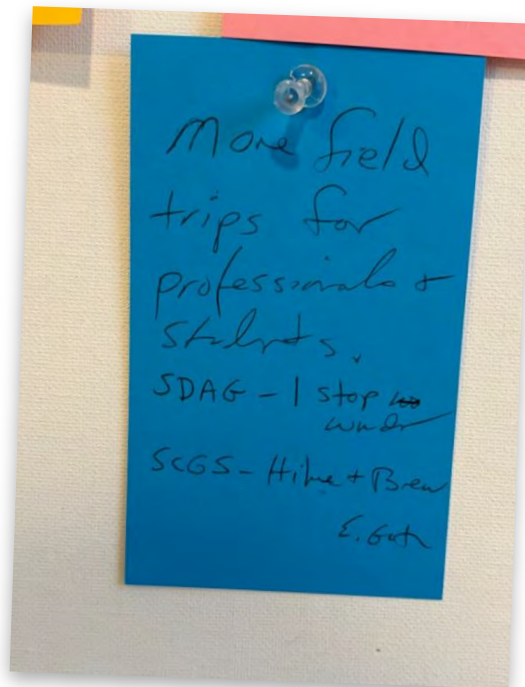
13 NCEE

GM-SVU TAG

Sessions 5 & 6

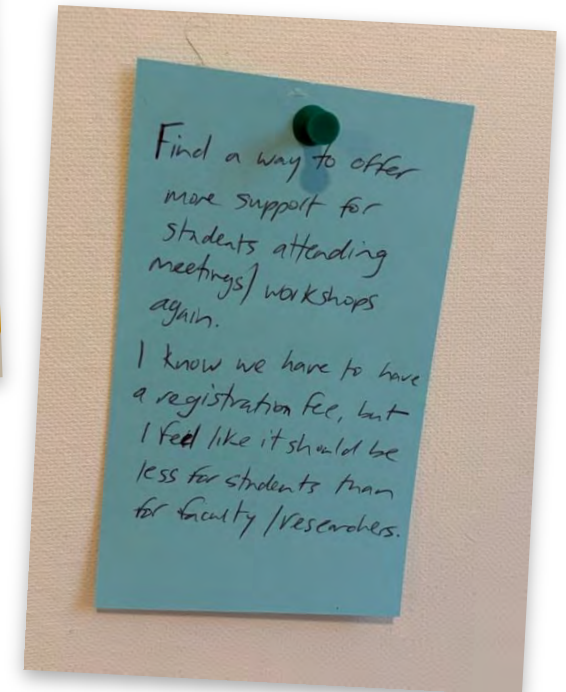
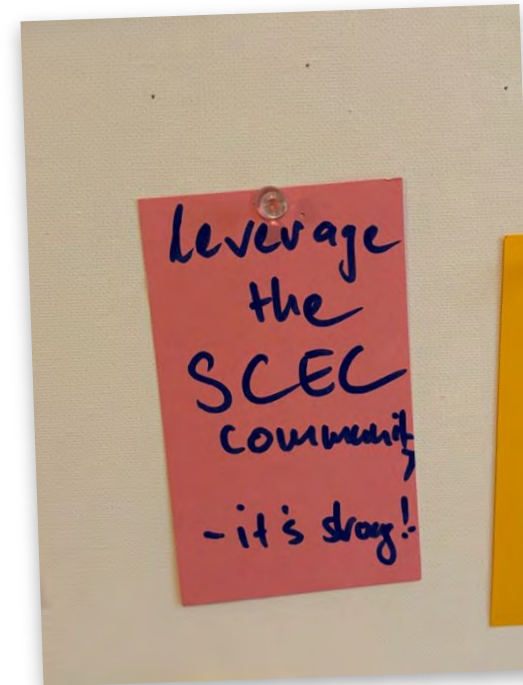
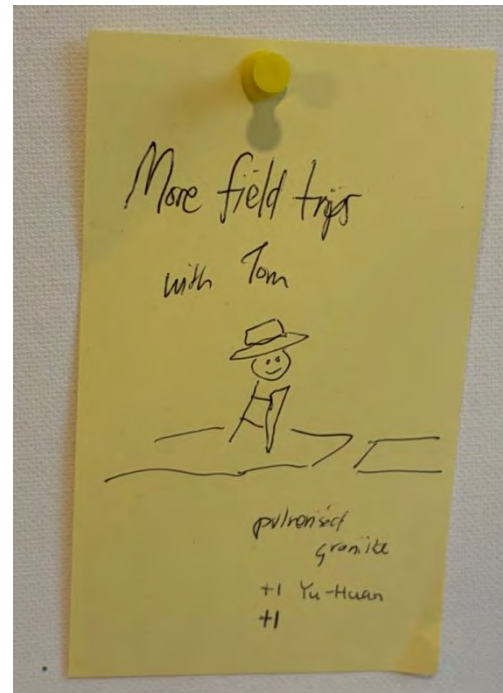
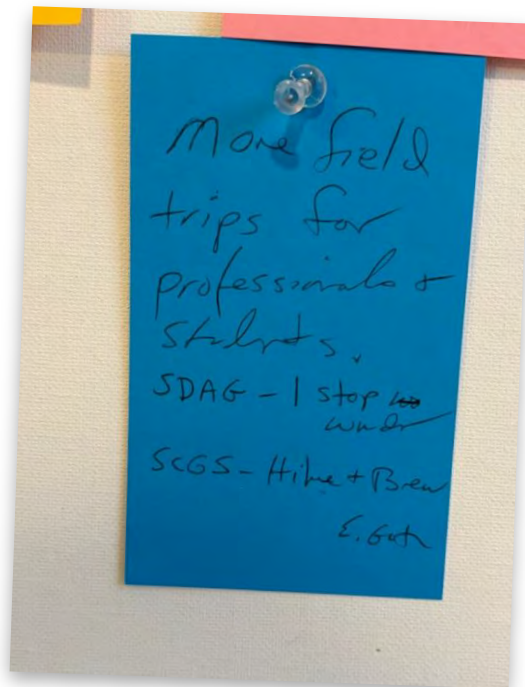
Field Trips & Community Spirit

And the ideas that make SCEC feel like SCEC.



Field Trips & Community Spirit

And the ideas that make SCEC feel like SCEC.

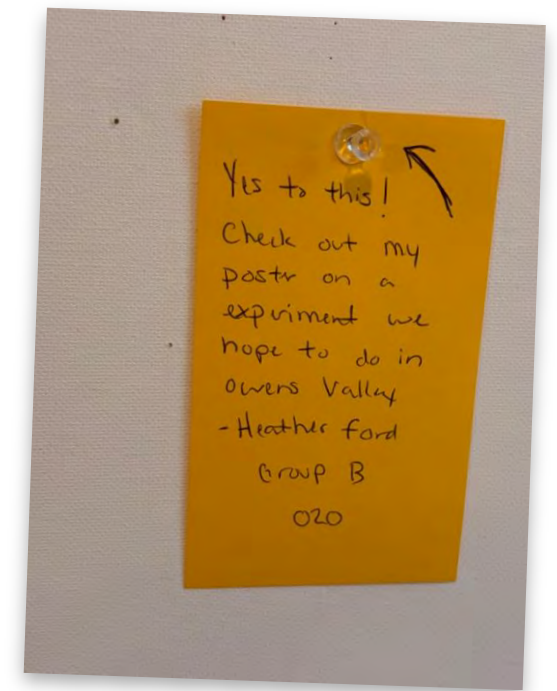
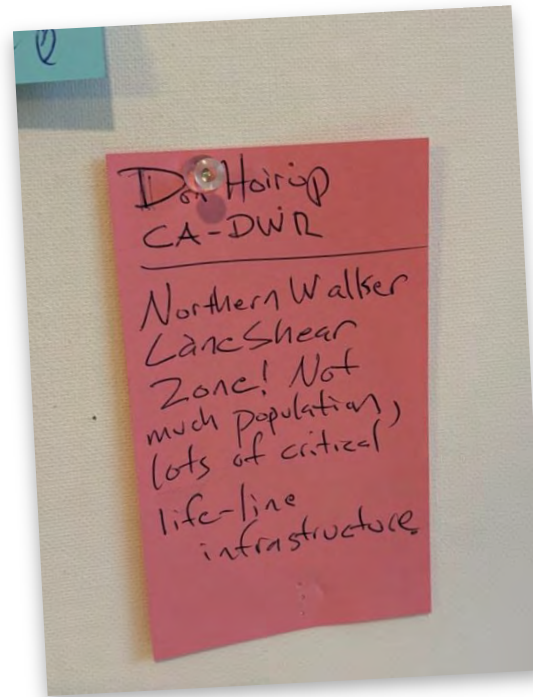


4 Field Trips

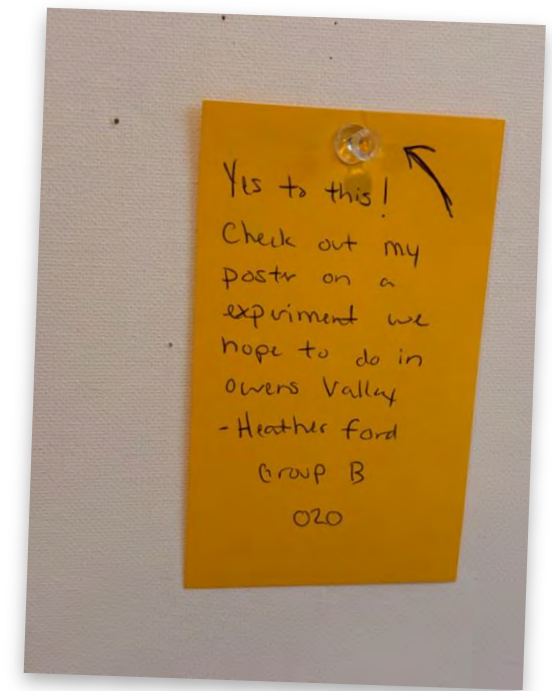
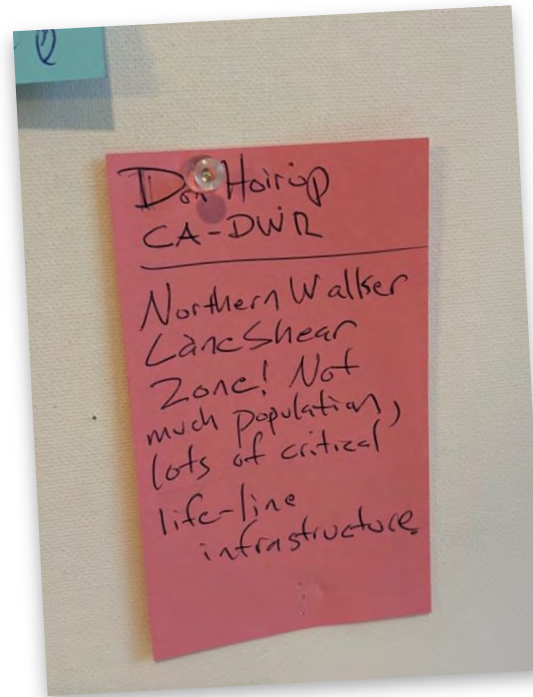
22 workshops

A bootcamp

Reach Further — Hazards Statewide



Reach Further — Hazards Statewide



SoCal Shakeout

SiERRa TAG

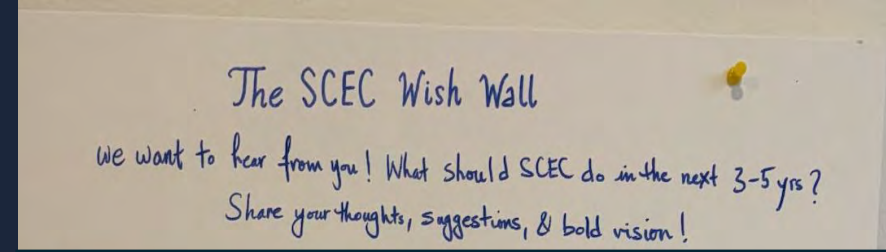
Parkfield Workshop

NORCAT

MORE TO COME

2026 SCEC Wish Wall

"We want to hear from you! What should SCEC do in the next 3–5 years? Share your thoughts, suggestions, and bold vision!"



Poster 192 Group B







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Pasadena CA
91106

**Southern California Earthquake Center
Annual Meeting**

October 29-31, 1991

**NSF/USGS Site Review
SCEC Advisory Council Meeting**

November 1, 1991

**University Hilton Hotel
Los Angeles, California**

SCEC ANNUAL MEETING AGENDA

TUESDAY, OCTOBER 29

Morning session: 9:00 a.m. to noon

SCEC Administrative Report	Tom Henyey
SCEC Overview	Kei Aki
SCEC/USGS Pasadena Office	Tom Heaton
NSF Comments	Jim Hays
USGS Comments	Elaine Padovani
Education and Outreach/SCEPP	Karen McNally

Coffee Break (Demonstration of probability maps by Luci Jones)

Working Group Reports of Year 1 Progress (discussion follows each group report):

Group A (Master Model)	Kei Aki, Luci Jones/ Steve Park
Group B (Strong Motion)	Steve Day
Group C (Fault Zone Geology)	Kerry Sieh

Lunch provided at hotel (noon to 1:00 p.m.).

Afternoon session: 1:00 p.m. to 5:30 p.m.

Group D (Subsurface Imaging)	Rob Clayton
Group E (Geodesy)	Dave Jackson
Group F (Regional Seismicity)	Egill Hauksson
Group G (Earthquake Physics)	Leon Knopoff

Coffee break.

Group H (Engineering Applications)	Geoff Martin
Terrascope	Hiroo Kanamori
CUBE	Egill Hauksson
Data Center/Catalog Update	Rob Clayton
Refteks	Aaron Martin
GPS	Dave Jackson
Pinon Flat	Bernard Minster

CORE INSTITUTIONS

<u>University of Southern California:</u> (Coordinating Institution)	Keiiti Aki Thomas Henyey Peter Leary Geoffrey Martin	William Petak Charles Sammis Ta-liang Teng
<u>California Institute of Technology:</u>	Robert Clayton Egill Hauksson Donald Helmberger	Kenneth Hudnut Hiroo Kanamori Kerry Sieh
<u>Columbia University:</u>	John Beavan Leonardo Seeber	Lynn Sykes Christopher Scholz
<u>University of California, Los Angeles:</u>	Paul Davis David Jackson	Yan Kagan Leon Knopoff
<u>University of California, San Diego:</u>	Duncan Agnew Yehuda Bock	Bernard Minster John Orcutt
<u>University of California, Santa Barbara:</u>	Ralph Archuleta Ruth Harris Edward Keller Stephen Miller	Craig Nicholson Stephen Richard Bruce Shaw Sandra Seale
<u>University of California, Santa Cruz:</u>	Thorne Lay Karen McNally	Steven Ward

PARTICIPATING INSTITUTIONS

University of California, Riverside:	Stephen Park	
University of Nevada, Reno:	John Anderson	Steven Wesnousky
San Diego State University:	Steven Day	Thomas Rockwell
Harvard University:	James Rice	
Stanford University:	Allin Cornell	
Massachusetts Institute of Technology:	Bradford Hager	
Princeton University:	John Suppe	
Oregon State University:	Robert Yeats	

INDUSTRY PARTICIPANTS

Crouch, Bachman Associates, Inc.:	James Crouch
Davis and Namson, Consulting Geologists:	Thom Davis

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John McRaney : Founding
SCEC staff / first SCEC
employee, 1991

SEISMIC HAZARD POTENTIAL OF THE SANTA MONICA-HOLLYWOOD FAULT SYSTEM: A PROGRESS REPORT

J. F. Dolan and K. E. Sieh (Seismological Laboratory, Caltech)

Over the past three months we have focused our efforts on a geomorphic study of the NNW-trending Santa Monica-Hollywood Fault system (SM-HFS) in order to elucidate the kinematics, subsurface structural style, and seismic hazard of this portion of the northwestern Los Angeles Basin. Our studies reveal that the NNW-trending fault system is capable of generating large earthquakes.

Progress Report to SCEC

Velocity Field in Southern California from GPS and VLBI

B. H. Hager, PI, T. A. Herring and R. E. Reilinger, co-Is
Massachusetts Institute of Technology, Cambridge, MA 02139
October 21, 1991

We proposed two projects directly related to SCEC goals: 1) to produce a map of the velocity field in southern California using all available GPS, VLBI and conventional data in the region, and 2) to interpret this velocity field using both "traditional" dislocation models of creep at depth on faults and more "realistic" models that include viscous relaxation in the intercrustal asthenosphere. Most of our effort to date has been directed at task 1).

Crustal deformation. The aim is to apply a physical model of crustal stressing and deformation, in the interseismic period, near a locked fault zone to examine time dependence loading of a fault segment which, at least sometimes, responds in a characteristic-like earthquake mode. The focus in the first year is on the Parkfield segment. The SCEC funds are used to: the support of a postdoc, Y. Bock-Zion, who is studying similarities using under contemporary support from an NSF/EAR grant. Crustal deformation is assumed to be driven by a steadily loading fault.

Pilot Project

One of the pilot projects will include synthesizing and databasing a data set collected by Sally McGill along the Garlock Fault. Her project involves the mapping of geologic contacts, observed fault traces, suspected traces and trench localities. Although this database is quite small, the results will point out the utility of bringing in data through several unrelated channels (WILDtools files, AUTOCAD, visual observations and photogrammetric techniques) and combining them into a finalized database.

Southern California Earthquake Center

1991 Visitors- and Post-doctoral Fellows

Visitor	Host Institution	Research Project
V. Keilis-Borok (Academy of Science of USSR) (Feb. 19-17); Teryn Leannen	UCLA	Precursory Phenomenology and Modeling
Peter Mörner (ITP) (Feb.19-28)	UC-Santa Barbara	Routine Tectonics and Crustal Shortening Rates: The Transversal Ranges (Proximity of Mid Tinian Earthquake)
Geoffrey King (IPC, Paris) (Feb. 19-16)	USGS/USC	Black Thrust and Mechanics of Fault Zone Deformation
Masaru Takeo (ERI, Tokyo) (Feb. 19-16)	Caltech	Strong Motion Simulation for Southern California
Olexse G. Valensia (ING, Rome) (Feb. 19-16)	UC-Santa Cruz	Torsion Topography and Paleo Venice Fault
Jian Lin (Woods Hole) (Feb. 19-15)	USGS	Mechanical Analysis of 'Blind' Thrust Fault Sequences in the Los Angeles Basin
Sergio Barrientos (Univ. of Chile) (Feb. 19-17)	UC-Santa Cruz	Fault Segmentation at San Vicente Submarine Mendocino
David Scott (Ontario) (Feb. 19-17)	USC	Role of Fluids in Mechanical Models of Earthquakes
Rachel Abercrombie (Reading) (Feb. 19-16)	USC	Fault Mapping and Seismic Scaling Law in the Salak Region: 1 m to 10 km

Report on Experiment of Fault Zone Trapped Waves

Yong-Gang Li/Ta-Liang Teng, USC, Group D (Subsurface Imaging)

We have prepared for the field experiment, "The observation of fault zone trapped waves at the San Jacinto fault at Anza, southern California" funded by SCEC. The deployment of 6 PASSEAL instruments will be completed on schedule in November for six month data logging. The location has been carefully selected based on the following:

SCEC at 35

A 35-year earthquake science infrastructure that protects California

1991–2026: from fragmented research to statewide, operational earthquake system science

By the numbers

35+

years of continuous
research

700+

scientists & professionals

70+

member institutions

67.5M+

ShakeOut participants
worldwide

*Collaboration, models, tools, preparedness,
and workforce — built over decades and difficult
to replace.*

Landmark achievements

Science translated into public safety, policy, engineering, and resilience

Community Earth Models

CFM + CVM / UCVM provide open 3D representations of California faults and crust for hazard simulations.

Preparedness at Scale

Great ShakeOut + ECA turned science into action: drills, guidance, and outreach in 60+ countries.

Post Earthquake Science Response and Infrastructure

From Landers to Ridgecrest, SCEC mobilized rapid science response; SCIGN and HPC transformed aftershock forecasting.

11000 + registered in SCEC database
128 early career attendees this year
67 first time attendees

Forecasts & Hazard

UCERF informs codes and insurance; CyberShake brings physics-based hazard maps to engineering practice.

Earthquake Early Warning

Founding ShakeAlert partner; CyberShake-informed ground motion products support warnings for ~50M people.

Workforce & Global Leadership

700+ undergraduate researchers; Annual Meeting community hub; CSEP, CyberShake, and ShakeOut exported globally.

35 years of sustained investment → shared data + open models + validated tools + public preparedness + trained people

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Session 3

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Session 7

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Session 4

Session 5

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WHERE WE SIT

From Science to Society

SCEC sits naturally in Pasteur's Quadrant : pushing the frontiers of earthquake system science while translating it into products that improve seismic and community resilience.

*quest for
fundamental
understanding*
↑

**Pure Basic
Research**

Niels Bohr

**Use-Inspired
Fundamental
Research**

Pasteur

**Pure Applied
Research**

Thomas Edison

considerations of use →

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considerations of use →

Panels

Sessions 6

Sessions 8

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From Science to Society

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SCEC External Advisory Council



Steve Bohlen
LLNL
EAC Chair



Lars Koesterke
TACC
EAC Member



Janiele Maffei
CEA
EAC Member

*quest for
fundamental
understanding*
↑



Shawn Strande
SDSU
EAC Member



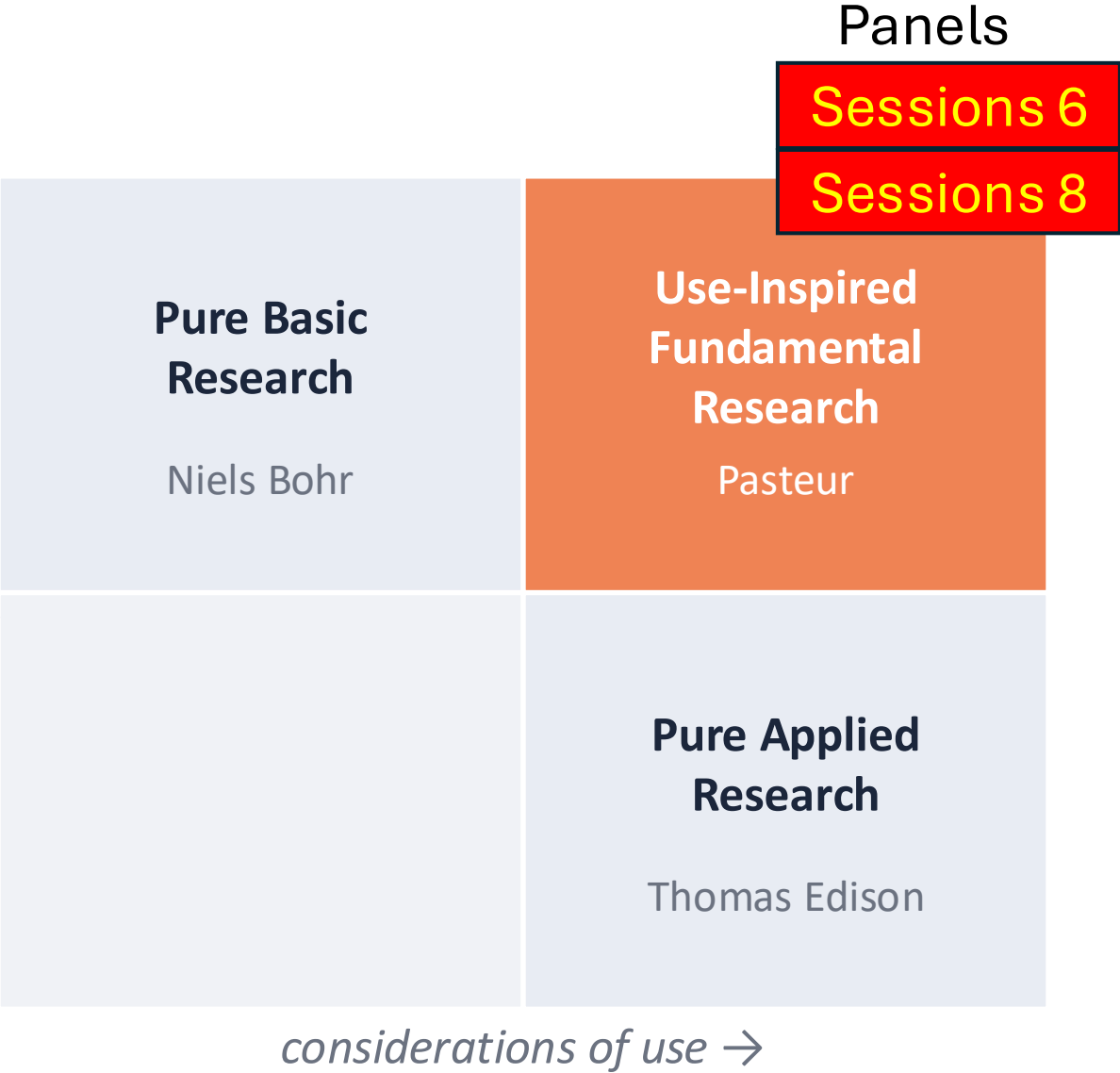
Heidi Tremayne
EERI
EAC Member



Francois Renard
Univ of Oslo
EAC Member



Robert Woodward
EarthScope
EAC Member



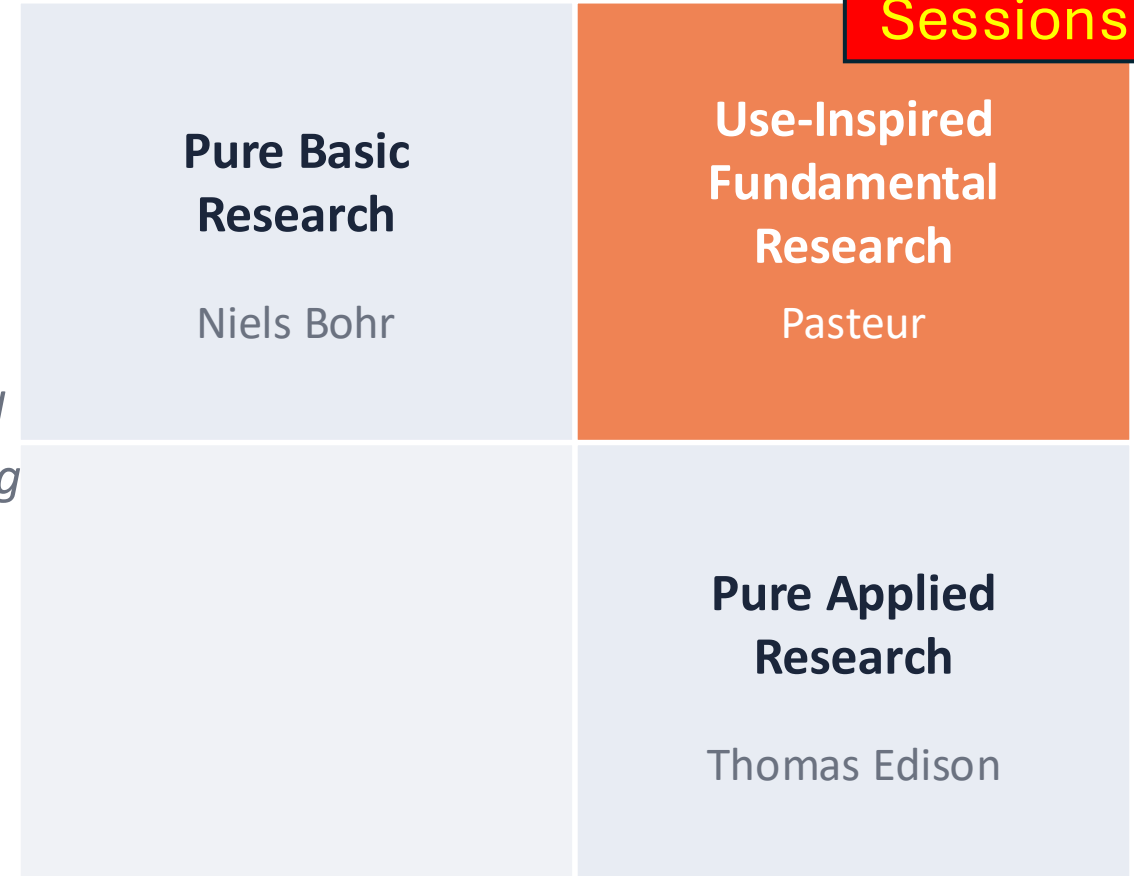
From Science to Society

SCEC sits naturally in Pasteur's Quadrant : pushing the frontiers of earthquake system science while translating it into products that improve seismic and community resilience.

We can solve problems:

- for the state of CA,
- for insurers/re-insurers/Cat modeling,
- for utilities and critical infrastructure,
- for building codes
- for the energy sector

*quest for
fundamental
understanding*
↑



considerations of use →

Panels

Sessions 6

Sessions 8

The program committee

Thank You



Alice Gabriel
SSC/PRC



Ashley Griffith
PRC



Christie Rowe
PRC



Gareth Funning
PRC



Jillian Maloney
Board of Directors



Morgan Moschetti
SSC



Morgan Page
SSC



Zach Ross
Board of Directors



Tran Huynh

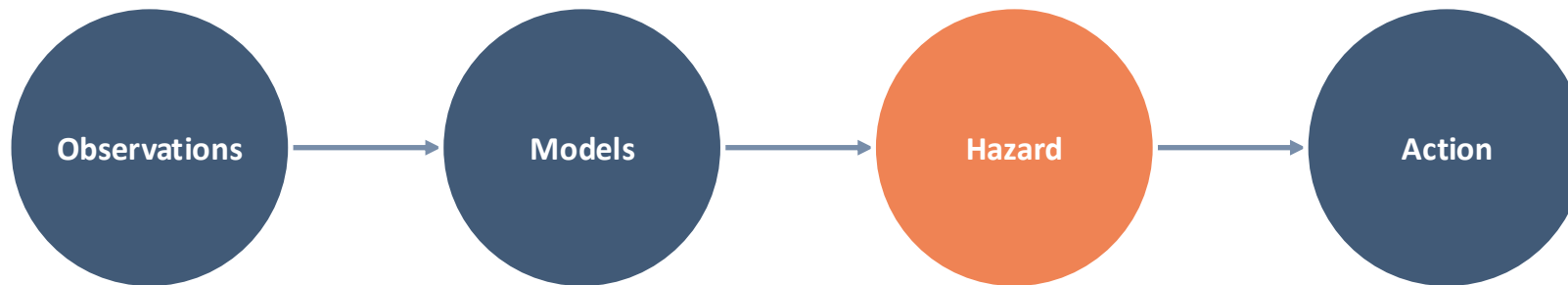


Greg Beroza

WHY WE'RE HERE

More Than a Presentation of What We Know

SCEC2026 is a conversation about how we connect one another and about where our science is headed and the community, we need to build that future together.



individual research efforts → a shared scientific enterprise and a strong community

Reflecting on SCEC's legacy, reimagining its future, and rejuvenating our network of partners

Plenary Speakers and panelists:

- Both early careers and leaders in the field,
- Both first time attendees and long-term SCEC veterans,
- From academia and industry,
- Spanning earthquake science, engineering, social science, and policy.

2026 SCEC Annual Meeting

Advancing Earthquake System Science for a Resilient California

📍 Palm Springs | 📅 Aug 30–Sep 2, 2026



Fundamental Science



Community Models & Products



Users & Decisions



Resilience & Action



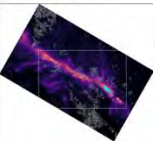
1. State of SCEC

35 years of science, service, and community



2. Distinguished Lecture

Learning from slow fault slip in California



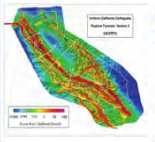
3. ShakeOut Scenario 2.0

Preparing California for the next great earthquake



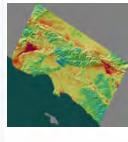
4. Observing the Earthquake Cycle

Geodesy, geology, remote sensing, DAS



5. Modeling the Earthquake Cycle

Physics-based multicycle and system simulations



6. Hazard & Ground Motion Forecasting

Community Earth Models, CyberShake, broadband tools



7. Who Uses Earthquake Science?

Utilities, engineering, insurance, codes



9. Open Problems

Grand challenges for the next decade



11. 12 New TAGs

Launch of Technical Activity Groups



8. Translating Science into Action

Preparedness, planning, policy, resilience



10. What Should SCEC Build Together?

Community priorities for SCEC's next phase



12. Posters & Lightning Talks

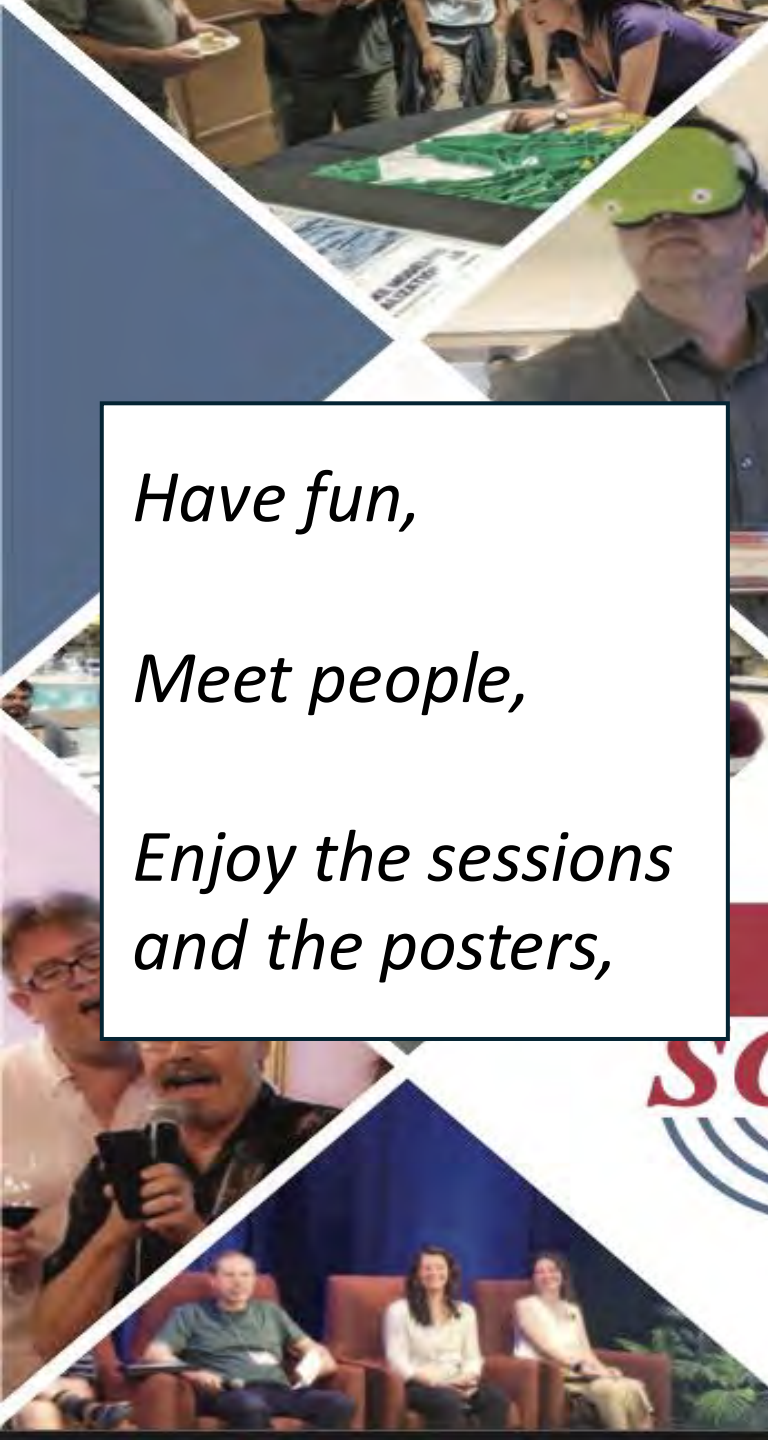
Community exchange and emerging ideas



13. Early Career & Transitions

Students and early-career researchers at the center

From observing earthquakes to informing decisions and strengthening resilience.



Have fun,

Meet people,

*Enjoy the sessions
and the posters,*

The SCEC Wish Wall

We want to hear from you! What should SCEC do within the next 3-5 yrs?
Share your thoughts, suggestions, & bold vision!

Poster 192 Group B



Pin your
wish!

10:00 - 11:55	Session 9. What Should SCEC Build Together?, Horizon Ballroom <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: Ahmed Elbanna (USC)</u>
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 from <u>The SCEC Wish Wall</u> and meeting discussions will shape SCEC's programs and future directions, <u>Ahmed Elbanna (USC)</u>
11:55 - 12:00	Closing Remarks, SCEC2026 Adjourns

Sessions 9



Share with
us your
thoughts!