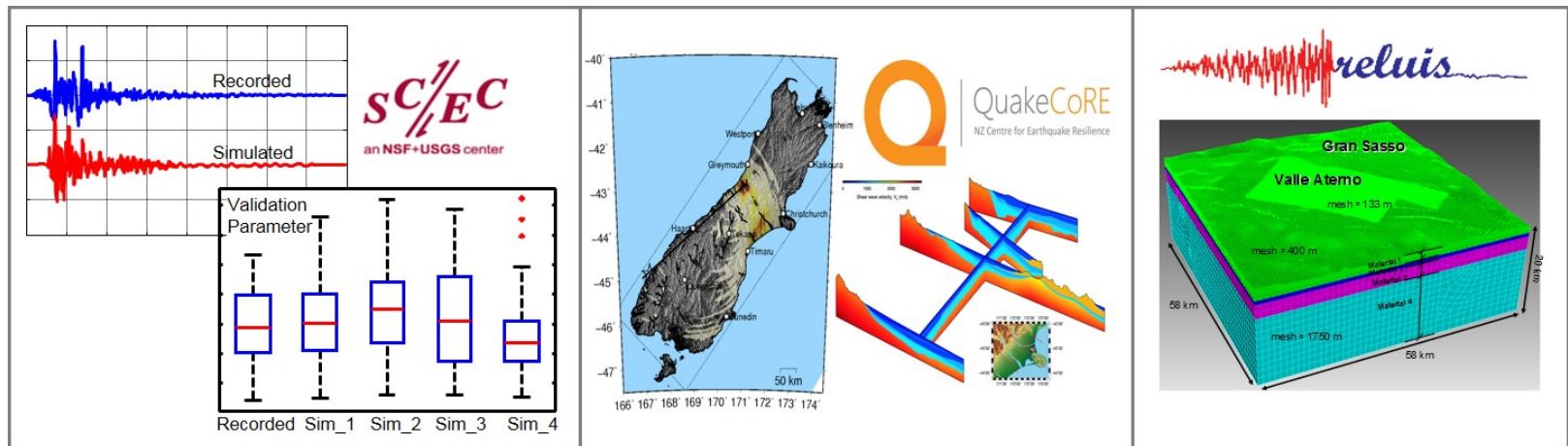


International Workshop on Ground Motion Simulation Validation



SCEC Award # 16162

Conveners:

Sanaz Rezaeian and Nico Luco (USGS)
Brendon Bradley (QuakeCoRE, NZ)
Iunio Iervolino (ReLUIIS, Italy)
Leonardo Ramirez-Guzman (Mexico City)

SCEC Annual Meeting, 11 September 2016, Palm Springs, CA

Agenda

13:00-13:05	Introductions	S. Rezaeian
13:05-13:15	The SCEC perspective on validations in SCEC5	C. Goulet
	Overview of GMSV Efforts in New Zealand, Italy, Mexico, and at SCEC	
13:15-13:25	QuakeCoRE GMSV research coordination and current priorities	B. Bradley
13:25-13:40	Italian experience with 3D physics-based numerical simulations of earthquake ground motion	M. Stupazzini
13:40-13:55	Synthetic ground motion system for structural design and evaluation in Mexico City	L. Ramirez-Guzman
13:55-14:05	Organization and structure of the GMSV TAG in SCEC4	N. Luco
14:05-14:30	<i>Discussion: How should modelers and engineers participate in and contribute to the SCEC5 ground motion simulation validation efforts?</i>	
	Simulated Earthquake Ground Motions and Database Development	
14:30-14:40	Development of a QuakeCoRE database for access to ground motion simulation outputs at specific locations	S. Bae
14:40-14:50	Datasets of recorded and simulated near-source earthquake ground motions: the experience gained in Italy	M. Stupazzini
14:50-15:00	Current SCEC simulations	P. Maechling
15:00-15:25	<i>Discussion: What are the requirements of a database interface for users to access simulated ground motions and validation parameters?</i>	
15:25-15:40	Break	
	Validation Efforts and Engagement with Engineering Users	
15:40-15:50	QuakeCoRE guidance on the utilization of ground motion simulations in engineering practice	B. Bradley / J. Baker
15:50-16:00	Engineering applications of 3D physics-based numerical simulations: two case studies from the Reluis project, Italy	M. Stupazzini
16:00-16:15	Demonstration of the efficacy of the BBP validation gauntlets for building response analysis applications	N. Luco / G. Deierlein
16:15-16:45	<i>Discussion: How should we engage engineering users in SCEC5?</i>	
16:45-17:00	Summary and Wrap Up	S. Rezaeian
17:00	Adjourn	

Discussion 1

Organization and structure of the GMSV TAG in SCEC5:

How should modelers and engineers participate in and contribute to the SCEC5 ground motion simulation validation efforts?

Continue coordinating independent project? Or “bigger group” proposals”?

Anything else we should discuss that hasn't been talked about?

Discussion 2

Simulated ground motion database :

What are the requirements of a database interface for users to access simulated ground motions and validation parameters?

Anything else we should discuss that hasn't been talked about?

Discussion 3

Validation needs and engagement with users :

How should we engage engineering users in SCEC5?

Validation beyond median gm? variability and spatial correlation?

Anything else we should discuss that hasn't been talked about?

Summary

1. Organization and Structure of the TAG

...

2. Database Interface

...

3. Validation Needs and Engaging Engineering Users

...

Coordination Efforts

- Monthly web conference calls
 Thursdays at 11:30am Pacific Time
- Wiki:
 <http://collaborate.scec.org/gmsv/>