

Wednesday, 16 May

Workshop on the Challenges of the Continental Earthquake Science Experiments (CESES): Science, Technology and Coordination

Session 1: Role of basic research in seismic hazard assessment and operational earthquake forecast

Time: 08:30-12:00

Venue: Meeting Room 506 (5th Floor)

Chairman: Qinjian TIAN, Aleksei ZAVIALOV

08:30-09:00 Opening: Address from the leader of the Earthquake Monitoring and Forecasting
Department of China Earthquake Administration (CEA) and Director of Institute of
Earthquake Forecasting (IEF)

09:00-09:20 **John E. VIDALE** SCEC and the science of earthquake forecasts

09:20-09:40 **Fei PENG** Brief introduction to the Institute of Earthquake Forecasting, China
Earthquake Administration

09:40-10:00 **Giuliano PANZA** How seismological and geodetic tools can jointly contribute to the
understanding and forecasting of earthquakes

10:00-10:40 Coffee Break

Chairman: Bing XUE, Bruce E. SHAW

10:40-11:00 **Guojie MENG** Introduction to the Scientific Project of Earthquake Anatomy

11:00-11:20 **Yosuke AOKI** Adaptive meshing of a fault plane for an inversion of coseismic
displacements for slip distribution

11:20-11:40 **Weijun WANG** Earthquake Anatomy: An exercise from 2017 Jinghe M6.6 Earthquake

11:40-12:00 **Aleksei ZAVIALOV** Effect of round-the-world surface seismic waves in the dynamics
of repeated shocks of strong earthquakes - statistical properties

12:00-13:30 Lunch

Wednesday, 16 May

Session 2: Field experiments in earthquake science: experiences and lessons

Time: 13:30-17:30

Venue: Meeting Room 506 (5th Floor)

Chairman: Jinwei REN, John E. VIDALE

13:30-13:50 **Yifeng CUI** High performance earthquake simulation: challenges and opportunities

13:50-14:10 **Guangyu FU** Introduction to the China Earthquake Science Experiment Fields

14:10-14:30 **Bruce E. SHAW** Physics-based Earthquake Simulator

14:30-14:50 **Peng WANG** USYERF versus UCERF: status and prospect

14:50-15:40 Coffee Break

Chairman: Guojie MENG, Yifeng CUI

15:40-16:00 **Yosihiko OGATA** Toward probability forecasting of large earthquakes

16:00-16:20 **Ying LI** Operational earthquake forecasting in the Continental Earthquake Science Experiments

16:20-16:40 **Bogdan Dumitru ENESCU** Earthquake triggering and interaction, based on study-cases in Japan

16:40-17:00 **Gareth J FUNNING** Tectonic geodesy research in California: interseismic deformation, fault creep and earthquake response

17:00-17:30 Closing: Address from the leader of the Science and Technology Department of CEA

Wednesday, 16 May



SCEC and the science of earthquake forecasts

John E. VIDALE

*Southern California Earthquake Center/University
of Southern California*

Dean's Professor at USC and the Director of
the Southern California Earthquake Center

Wednesday, 16 May

09:00-09:20

Meeting Room 506 (5th Floor)



Brief introduction to the **Institute of
Earthquake Forecasting, China
Earthquake Administration**

Fei PENG

*Institute of Earthquake Forecasting,
China Earthquake Administration*

Director of the Foreign Affairs Office of IEF

Wednesday, 16 May

09:20-09:40

Meeting Room 506 (5th Floor)

Wednesday, 16 May



How seismological and geodetic tools can jointly contribute to the understanding and forecasting of earthquakes

Giuliano PANZA

University of Trieste

OLIM Professor of Seismology

Wednesday, 16 May

09:40-10:00

Meeting Room 506 (5th Floor)



Introduction to the Scientific Project of Earthquake Anatomy

Guojie MENG

Institute of Earthquake Forecasting,

China Earthquake Administration

Director of the Earthquake Deformation

Laboratory of IEF

Wednesday, 16 May

10:40-11:00

Meeting Room 506 (5th Floor)

Wednesday, 16 May



Adaptive meshing of a fault plane for an inversion of coseismic displacements for slip distribution

Yosuke AOKI

Earthquake Research Institute, University of Tokyo
Assistant Professor

Wednesday, 16 May

11:00-11:20

Meeting Room 506 (5th Floor)



Earthquake Anatomy: An exercise from 2017 Jinghe M6.6 Earthquake

Weijun WANG

*Institute of Earthquake Forecasting,
China Earthquake Administration*

Director of the Seismology Laboratory of IEF

Wednesday, 16 May

11:20-11:40

Meeting Room 506 (5th Floor)

Wednesday, 16 May



Effect of round-the-world surface seismic waves in the dynamics of repeated shocks of strong earthquakes - statistical properties

Aleksei ZAVIALOV

*Schmidt Institute of Physics of the Earth,
Russian Academy of Sciences*

Head of the Laboratory of Seismic Hazard, Schmidt Institute of Physics of the Earth

Wednesday, 16 May

11:40-12:00

Meeting Room 506 (5th Floor)



High performance earthquake simulation: challenges and opportunities

Yifeng CUI

*High Performance GeoComputing Laboratory,
San Diego Supercomputer Center/ University
of California San Diego*

Director of High Performance GeoComputing Laboratory

Wednesday, 16 May

13:30-13:50

Meeting Room 506 (5th Floor)

Wednesday, 16 May



**Introduction to the China Earthquake Science
Experiment Fields**

Guangyu FU

*Institute of Earthquake Forecasting,
China Earthquake Administration*
Deputy Director of Earthquake Deformation
Laboratory of IEF

Wednesday, 16 May
13:50-14:10
Meeting Room 506 (5th Floor)



Physics-based Earthquake Simulator

Bruce E. SHAW

*Lamont Doherty Earth Observatory, Columbia
University*
Lamont Research Professor

Wednesday, 16 May
14:10-14:30
Meeting Room 506 (5th Floor)

Wednesday, 16 May



USYERF Status and Prospect

Peng WANG

*Institute of Earthquake Forecasting,
China Earthquake Administration*
Assistant Professor of Earthquake Prediction
Laboratory of IEF

Wednesday, 16 May

14:30-14:50

Meeting Room 506 (5th Floor)



Toward probability forecasting of large earthquakes

Yosihiko OGATA

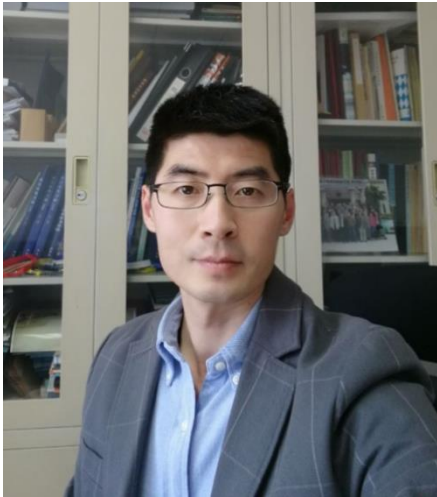
Institute of Statistical Mathematics
Professor Emeritus

Wednesday, 16 May

15:40-16:00

Meeting Room 506 (5th Floor)

Wednesday, 16 May



Operational earthquake forecasting in the Continental Earthquake Science Experiment Sites

Ying LI

*Institute of Earthquake Forecasting,
China Earthquake Administration
Director of Geochemistry Laboratory of IEF*

Wednesday, 16 May
16:00-16:20
Meeting Room 506 (5th Floor)



Earthquake Triggering and Interaction, based on study-cases in Japan

Bogdan Dumitru ENESCU

*Division of Earth and Planetary Sciences
Graduate School of Science, Kyoto University
Associate Professor*

Wednesday, 16 May
16:20-16:40
Meeting Room 506 (5th Floor)

Wednesday, 16 May



Tectonic geodesy research in California: interseismic deformation, fault creep and earthquake response

Gareth J FUNNING

University of California

Associate Professor and Undergraduate Advisor for
Geophysics Department of Earth Sciences

Wednesday, 16 May

16:40-17:00

Meeting Room 506 (5th Floor)