Intro to CEE 209S: Disaster Resilience Seminar

September 26, 2018
Stanford University

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Stanford Urban Resilience Initiative (SURI)
Day 1 – Intro to…


2. Seminar structure and speakers.

3. Each other.
What is SURI?
Researchers and stakeholders applying engineering analyses to capture social impact and human behavior for natural disasters and extreme events.

http://urbanresilience.stanford.edu/
Who we are

CORE TEAM

Jack Baker (Director)
Structural Reliability / Earthquake Ground Motions

Chittayong (Jao) Surakitbanharn (Executive Director)
Disaster Decision Making

Greg Deierlein
Structural Analysis / Performance-Based Design

Jenny Suckale
Geophysics / Applied Mathematics

Anne Kiremidjian
Regional Loss Modeling / Systems Reliability
Who we are

Derek Ouyang
Sustainable Urban Systems

Leonard Ortolano
Environmental/Water Resources Planning and Management

Alice Hill
Policy to Build Resilience

Carrie Armel
Behavior / Energy Sustainability

Deland Chan
Urban Sustainability

Perrine Hamel
Ecosystem Services and Conservation

Mary Lou Zoback
Geophysics / Natural Hazards Risk

Robert Soden (CU Boulder)
Human Computer Interaction/Science and Technology Studies

David Lallemand (NTU)
Urban Loss Modeling / Probabilistic Inference
Who we are

STUDENTS

Maryia Markhvida
Catastrophe Risk Assessment

Luis Ceferino
Structural Analysis / Catastrophe Risk Assessment

Gemma Cremen
Performance-Based Loss Modeling

Anne Hulsey
Post-Earthquake Downtime Induced by Safety Cordon Planning

Sabine Loos
Post-Earthquake Impact Estimation for Recovery Planning

Gitanjali Bhattacharjee
Risk/Reliability Analysis of Transport Networks & Decision Making Under Uncertainty

Guoqin Ma
Data-Driven Disaster Decision Making

Pablo Heresi
Performance Based Earthquake Engineering / Regional Risk Assessment
Other Events

SURI Coffee Hour
Wednesday 3:30-4:30 upstairs in Blume 02-540
An informal setting for faculty and students to share resilience research updates.

Other Events
http://urbanresilience.stanford.edu/news-events/
Alumni and Affiliates Meeting – Friday October 5th

Convergence of Performance-Based Engineering with Urban Resilience

Huang Engineering Center, Mackenzie Room 300

Henry Burton
2014, Ph.D.
UCLA

Rachel Davidson
1997, Ph.D.
U. of Delaware

Ezra Jampole
2016, Ph.D.
Exponent

David Lallement
2015, Ph.D.
Nanyang Technical U.

Registration link: https://blume.stanford.edu/event/2018affiliates-meeting
Seminar Structure and Speakers
Structure

One week before the seminar, reading or media and speaker bio will be posted on Canvas.

On the Monday before the seminar before 4pm, write a minimum of one question for the speaker onto a shared Google Document.

On the day of the seminar, the invited speaker will have 25 minutes to present (consecutive or broken up) and 25 minutes for questions and discussions.

You may miss up to three seminars and still receive credit for the course.
Decision making for resilience

October 3
Adam Zsarnoczay
Stanford

October 10
Milad Memarzadeh
UC Berkeley

October 17
Misse Wester
Lund University
Decision making for resilience

October 24
Marie Christine Razaire
State Farm Innovation Lab

October 31
Charles Scawthorn
SPA RISK LLC

November 7
Greg Cutsinger
Scholar Farms
(Carr Fire Example)
Decision making for resilience

November 14
Miyuki Hino
Stanford

November 28
Michael Germeraad
ABAG/MTC

December 5
Katharine Mach
Stanford Woods Institute
Intro to Each Other
Each person...

1. Your name?

2. What is your interest in disaster resilience?

3. What do you hope to get out of this seminar?
Takeaway message

Disasters are complex and require voices from different disciplines...

so we encourage you to use your voice in class.